

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034343.D
 Acq On : 06 Sep 2019 20:03
 Operator : JC/SP
 Sample : K4722-17MSD
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Manual Integrations
 APPROVED

MMDadoda
 9/10/2019 1:30:24 PM

Quant Time: Sep 07 04:42:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	326648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	474850	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	467754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	304073	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	223390	45.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.40%	
35) Dibromofluoromethane	4.86	113	202410	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
50) Toluene-d8	7.54	98	786030	47.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.70%	
62) 4-Bromofluorobenzene	10.29	95	298176	46.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	146556	42.900	ug/l	99
3) Chloromethane	1.32	50	167583	45.397	ug/l	97
4) Vinyl Chloride	1.40	62	179325	42.124	ug/l	99
5) Bromomethane	1.61	94	112626	52.326	ug/l	100
6) Chloroethane	1.69	64	115138	46.463	ug/l	99
7) Trichlorofluoromethane	1.87	101	249632	43.734	ug/l	100
8) Diethyl Ether	2.09	74	115662	46.066	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.27	101	165139	43.681	ug/l	100
10) Methyl Iodide	2.40	142	161347	46.906	ug/l	99
11) Tert butyl alcohol	2.81	59	272928	261.394	ug/l	99
12) 1,1-Dichloroethene	2.27	96	160587	45.185	ug/l	96
13) Acrolein	2.18	56	131019	149.297	ug/l	100
14) Allyl chloride	2.58	41	299273m	44.047	ug/l	
15) Acrylonitrile	2.92	53	618929	238.039	ug/l	98
16) Acetone	2.31	43	486773	190.324	ug/l	98
17) Carbon Disulfide	2.46	76	322171	40.334	ug/l	99
18) Methyl Acetate	2.60	43	258959	41.611	ug/l	97
19) Methyl tert-butyl Ether	2.98	73	628997	48.557	ug/l	100
20) Methylene Chloride	2.69	84	199692	47.650	ug/l	97
21) trans-1,2-Dichloroethene	2.97	96	214394	57.246	ug/l	98
22) Diisopropyl ether	3.55	45	630452	47.581	ug/l	97
23) Vinyl Acetate	3.50	43	2523410	233.799	ug/l	99
24) 1,1-Dichloroethane	3.43	63	354845	44.844	ug/l	100
25) 2-Butanone	4.24	43	804005	235.498	ug/l	100
26) 2,2-Dichloropropane	4.20	77	253787	39.877	ug/l	91
27) cis-1,2-Dichloroethene	4.20	96	407763	89.646	ug/l	92
28) Bromochloromethane	4.52	49	170135	46.745	ug/l	98
29) Tetrahydrofuran	4.61	42	508425	244.731	ug/l	98
30) Chloroform	4.65	83	362507	45.070	ug/l	99
31) Cyclohexane	4.97	56	259570	44.839	ug/l	99
32) 1,1,1-Trichloroethane	4.89	97	289644	45.041	ug/l	98
36) 1,1-Dichloropropene	5.12	75	235889	45.805	ug/l	99
37) Ethyl Acetate	4.36	43	277247	45.534	ug/l	99
38) Carbon Tetrachloride	5.11	117	242317	44.069	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	254736	46.273	ug/l	98
40) Benzene	5.37	78	770315	46.357	ug/l	99
41) Methacrylonitrile	4.52	41	164132	50.608	ug/l	99
42) 1,2-Dichloroethane	5.38	62	256723	44.498	ug/l	99
43) Isopropyl Acetate	5.53	43	446141	46.970	ug/l	98
44) Trichloroethene	6.16	130	1016989	221.166	ug/l	99
45) 1,2-Dichloropropane	6.41	63	222405	45.782	ug/l	98
46) Dibromomethane	6.54	93	139846	45.861	ug/l	98
47) Bromodichloromethane	6.74	83	281917	44.914	ug/l	99
48) Methyl methacrylate	6.60	41	216635	48.020	ug/l	99
49) 1,4-Dioxane	6.59	88	107755	1093.836	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	1564624	237.975	ug/l	99
52) Toluene	7.62	92	491646	47.165	ug/l	100
53) t-1,3-Dichloropropene	7.86	75	303036	46.573	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	330258	46.247	ug/l	100
55) 1,1,2-Trichloroethane	8.05	97	216391	45.717	ug/l	99
56) Ethyl methacrylate	8.00	69	328668	45.968	ug/l	100
57) 1,3-Dichloropropane	8.22	76	355794	46.162	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.08	63	958	16.983	ug/l #	48
59) 2-Hexanone	8.34	43	1197969	243.902	ug/l	99
60) Dibromochloromethane	8.46	129	241545	47.577	ug/l	99
61) 1,2-Dibromoethane	8.57	107	217385	46.923	ug/l	100
64) Tetrachloroethene	8.21	164	185581	45.732	ug/l	98
65) Chlorobenzene	9.10	112	575623	48.506	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.19	131	210843	46.555	ug/l	98
67) Ethyl Benzene	9.23	91	969308	49.955	ug/l	100
68) m/p-Xylenes	9.35	106	745584	102.043	ug/l	99
69) o-Xylene	9.76	106	373285	52.240	ug/l	99
70) Styrene	9.77	104	661209	52.778	ug/l	98
71) Bromoform	9.94	173	186476	47.509	ug/l #	100
73) Isopropylbenzene	10.14	105	998965	50.482	ug/l	99
74) N-amyl acetate	9.99	43	406712	51.060	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	373072	46.577	ug/l	100
76) 1,2,3-Trichloropropane	10.47	75	310338m	46.756	ug/l	
77) Bromobenzene	10.43	156	274337	49.581	ug/l	97
78) n-propylbenzene	10.57	91	1149076	50.280	ug/l	100
79) 2-Chlorotoluene	10.64	91	691330	49.578	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	860562	51.998	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	91525m	46.373	ug/l	
82) 4-Chlorotoluene	10.75	91	800577	49.889	ug/l	99
83) tert-Butylbenzene	11.08	119	850012	51.341	ug/l	99
84) 1,2,4-Trimethylbenzene	11.12	105	867080	52.048	ug/l	100
85) sec-Butylbenzene	11.30	105	1007537	51.548	ug/l	100
86) p-Isopropyltoluene	11.45	119	932824	51.708	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	496095	49.135	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	495243	47.027	ug/l	99
89) n-Butylbenzene	11.87	91	823496	52.527	ug/l	99
90) Hexachloroethane	12.12	117	135181	46.836	ug/l	98
91) 1,2-Dichlorobenzene	11.86	146	487909	49.170	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	76482	51.962	ug/l	95

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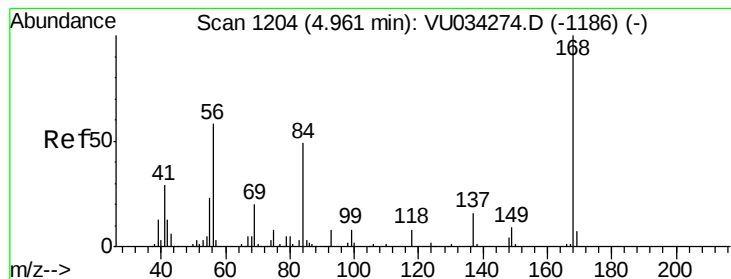
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.48	180	353902	49.233	ug/l	100
94) Hexachlorobutadiene	13.67	225	156470	45.080	ug/l	99
95) Naphthalene	13.72	128	1112471	54.506	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	345976	49.785	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:168 Resp: 326648

Ion Ratio Lower Upper

168 100

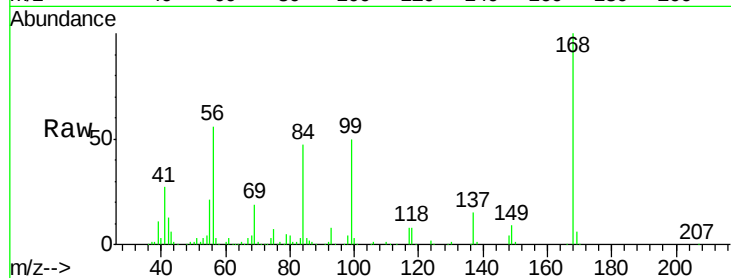
99 49.8 41.6 62.4

Manual Integrations

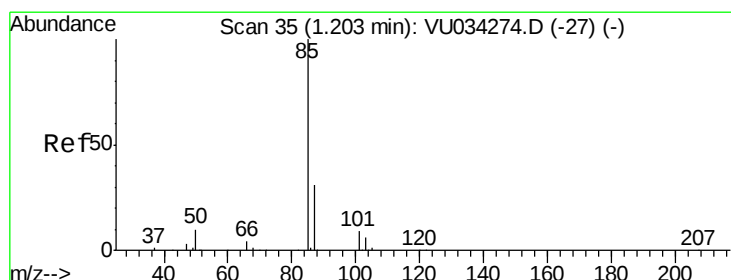
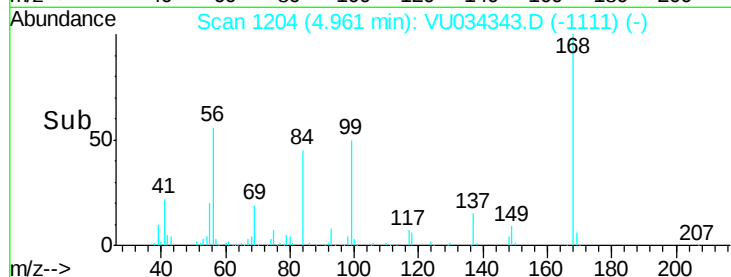
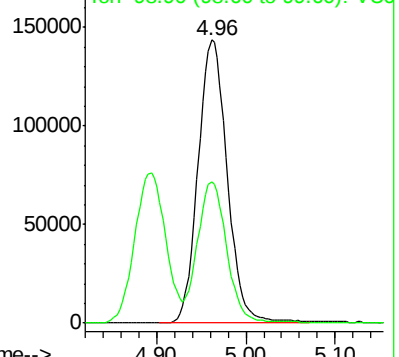
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Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)



#2

Dichlorodifluoromethane

Concen: 42.900 ug/l

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU034343.D

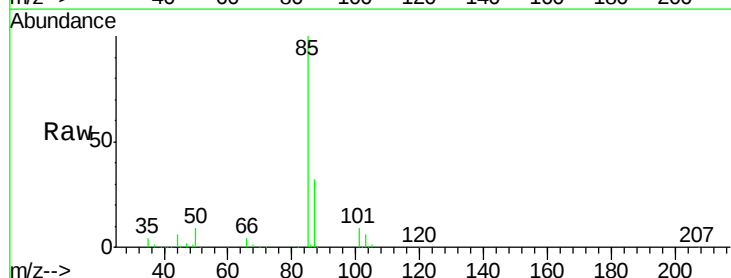
Acq: 06 Sep 2019 20:03

Tgt Ion: 85 Resp: 146556

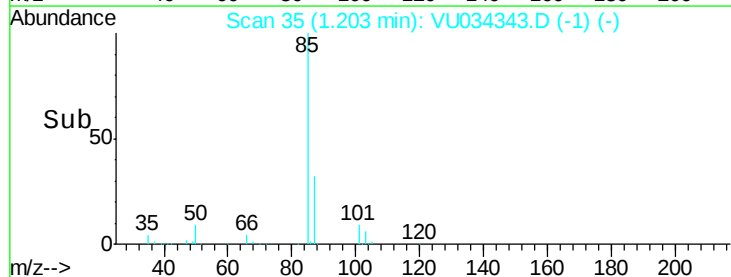
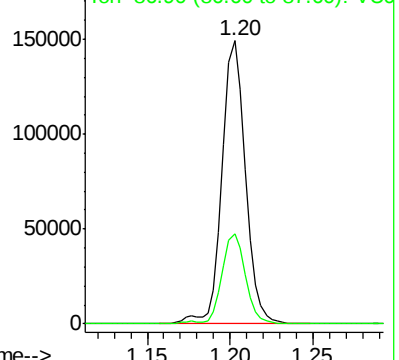
Ion Ratio Lower Upper

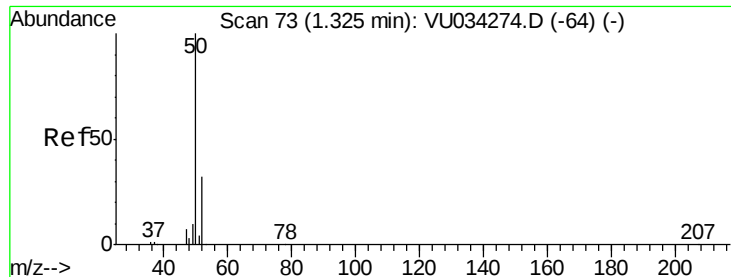
85 100

87 32.0 15.7 47.0



Abundance Ion 84.90 (84.60 to 85.60): VU034274.D (-27) (-)





#3

Chloromethane

Concen: 45.397 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 50 Resp: 167583

Ion Ratio Lower Upper

50 100

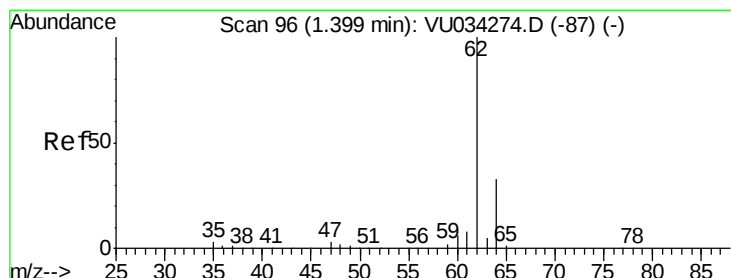
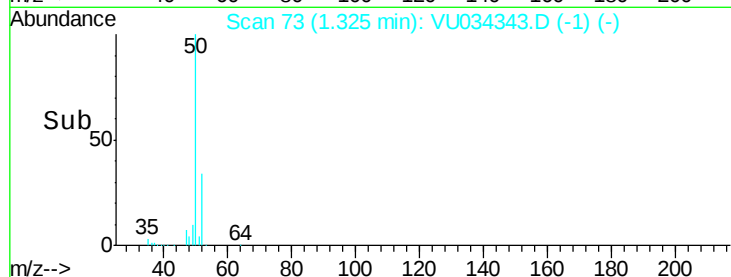
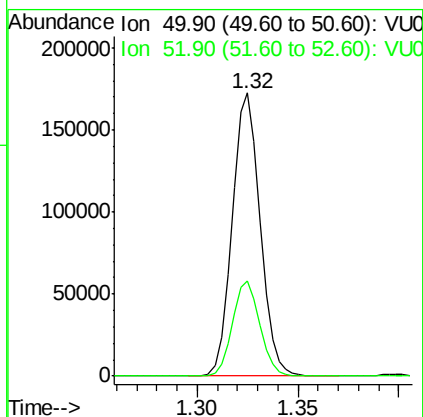
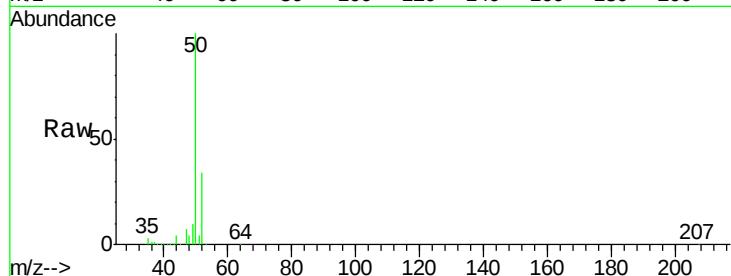
52 33.6 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 42.124 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034343.D

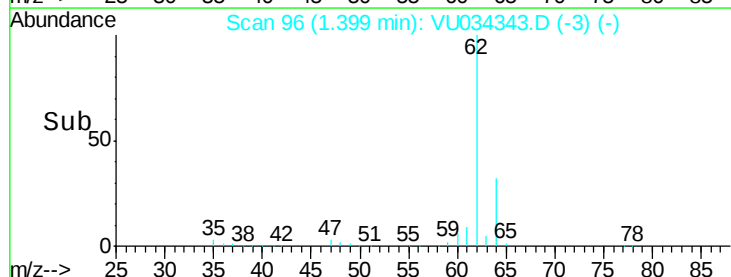
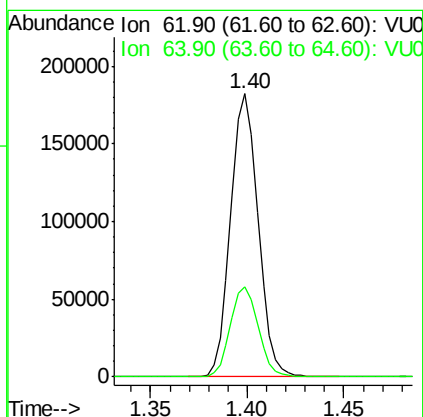
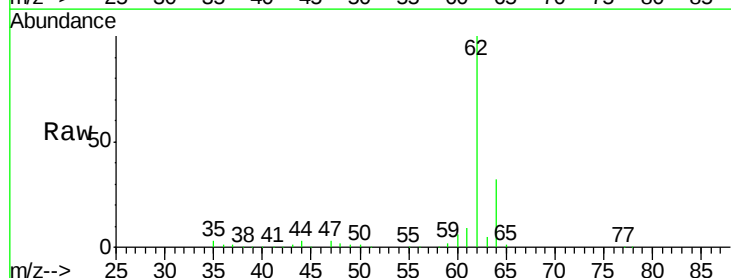
Acq: 06 Sep 2019 20:03

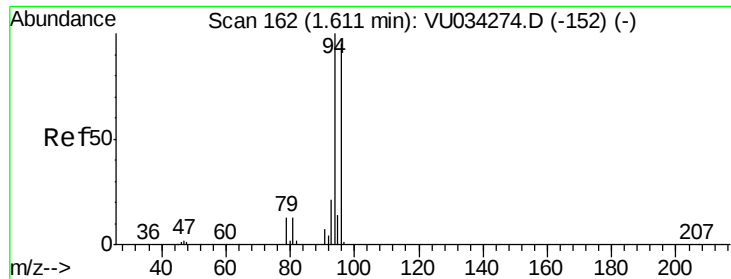
Tgt Ion: 62 Resp: 179325

Ion Ratio Lower Upper

62 100

64 32.0 26.2 39.4





#5

Bromomethane

Concen: 52.326 ug/l

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 94 Resp: 112626

Ion Ratio Lower Upper

94 100

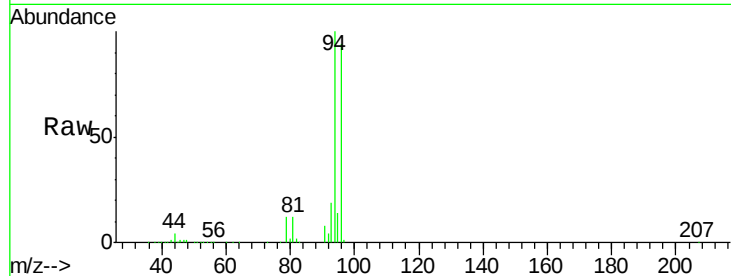
96 94.3 75.7 113.5

Manual Integrations

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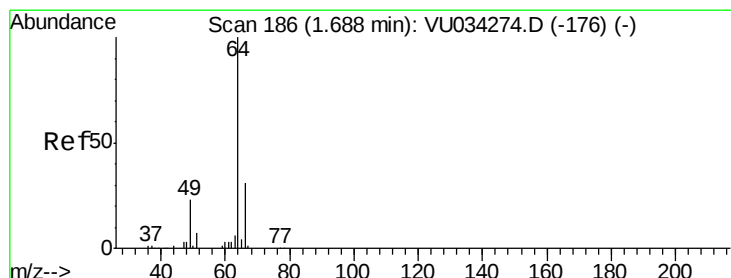
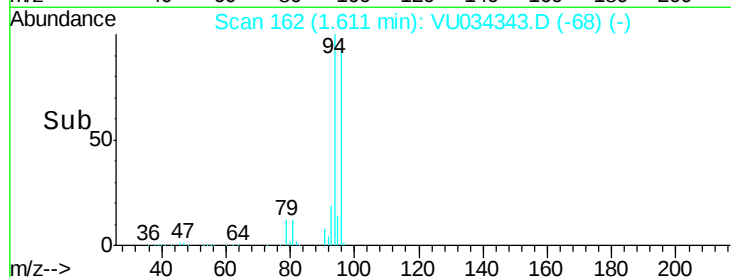
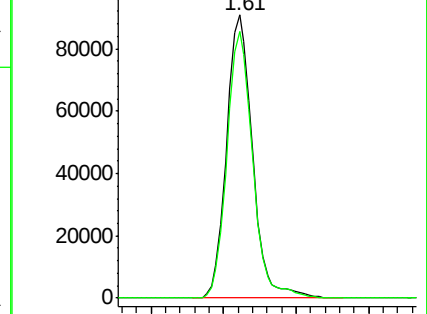
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Abundance Ion 93.90 (93.60 to 94.60): VU034343.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034343.D (-68) (-)



#6

Chloroethane

Concen: 46.463 ug/l

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034343.D

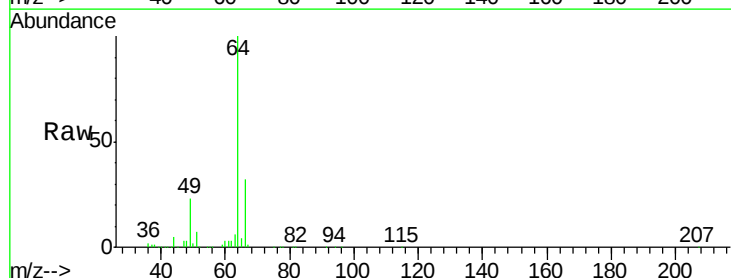
Acq: 06 Sep 2019 20:03

Tgt Ion: 64 Resp: 115138

Ion Ratio Lower Upper

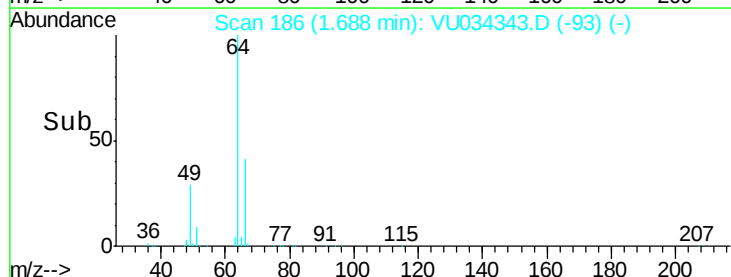
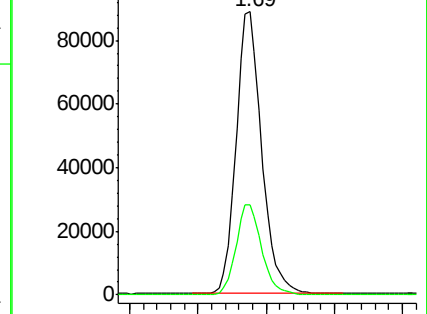
64 100

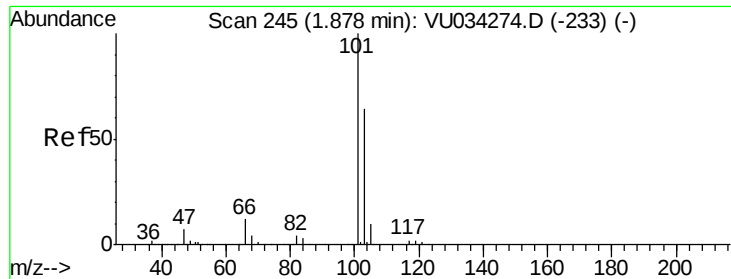
66 31.9 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU034343.D (-93) (-)

Ion 65.90 (65.60 to 66.60): VU034343.D (-93) (-)





#7

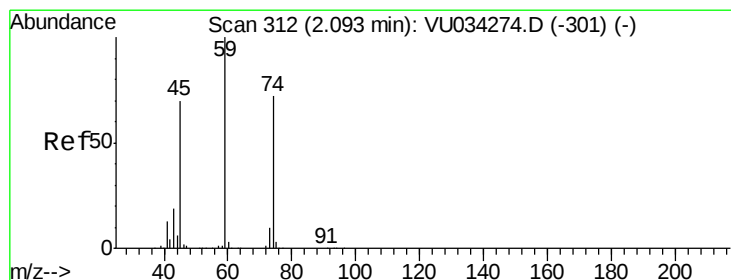
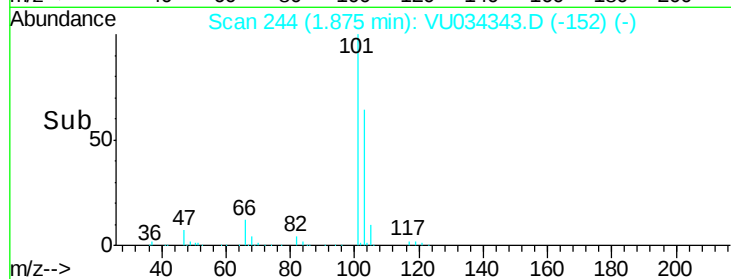
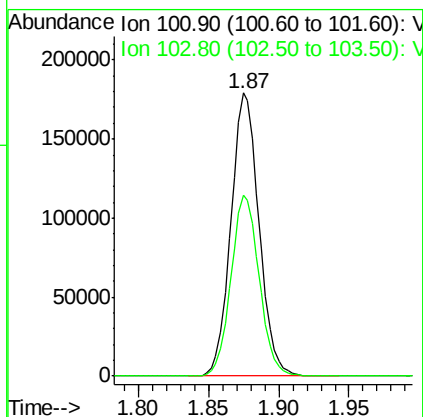
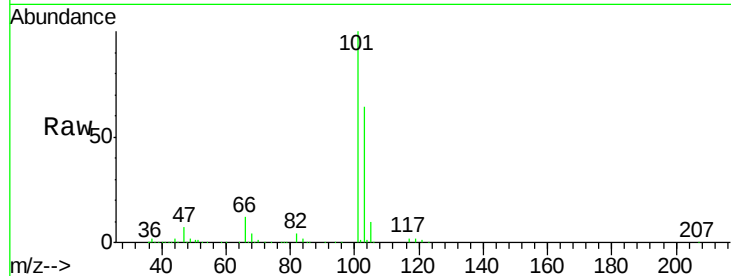
Trichlorofluoromethane
Concen: 43.734 ug/l
RT: 1.87 min Scan# 244
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	249632		
103	63.9	51.0	76.6	

Manual Integrations
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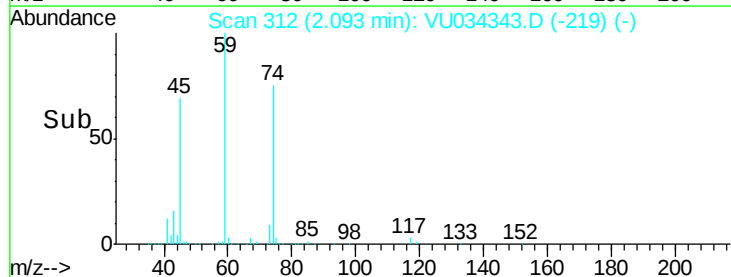
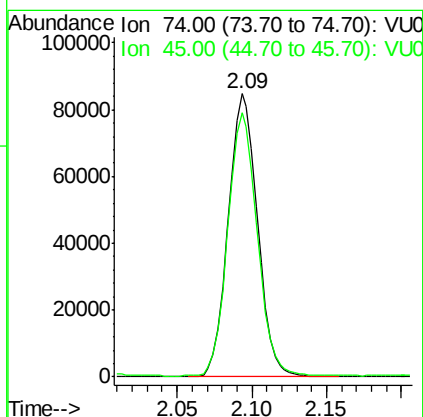
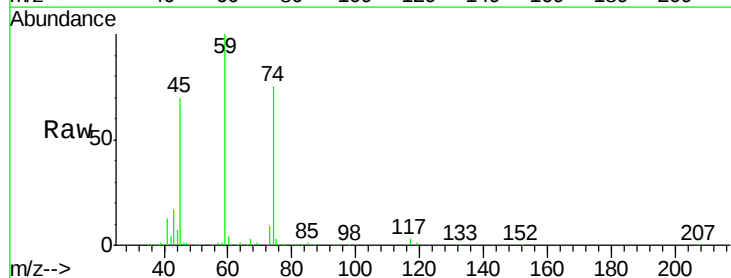
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9/10/2019 1:30:24 PM

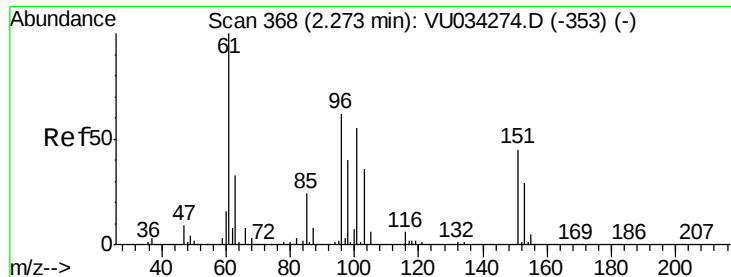


#8

Diethyl Ether
Concen: 46.066 ug/l
RT: 2.09 min Scan# 312
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	115662		
45	93.3	48.2	144.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.681 ug/l

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

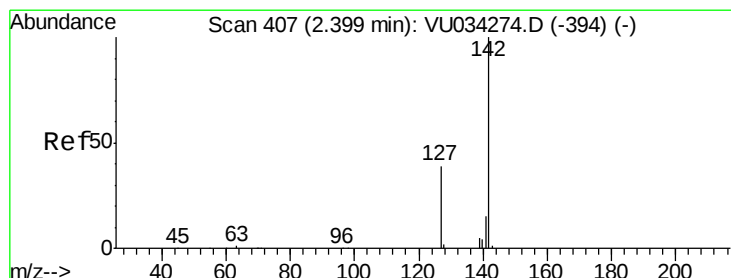
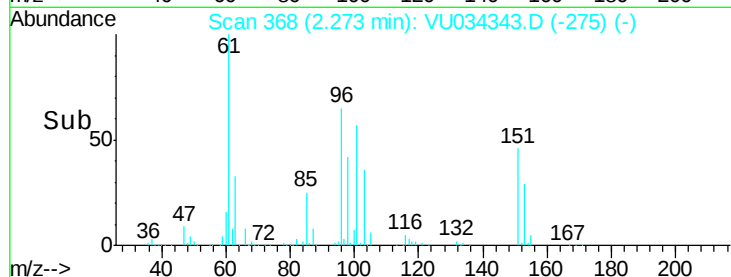
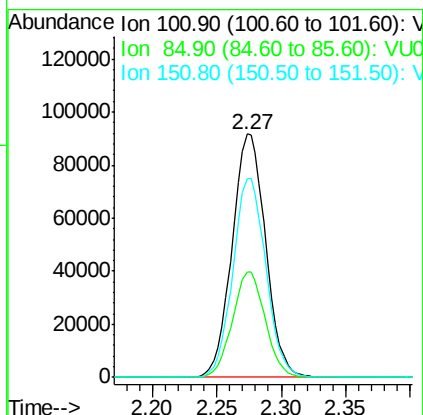
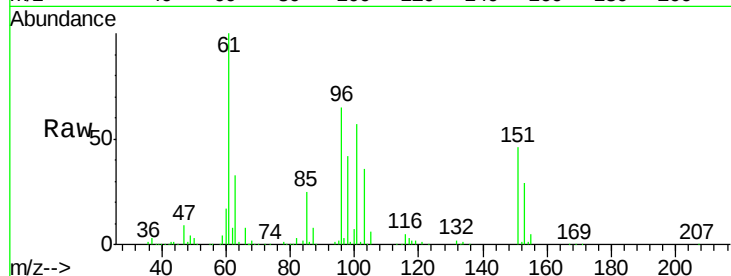
ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:	101	Resp:	165139
Ion Ratio	Lower	Upper	
101	100		
85	42.5	34.4	51.6
151	80.7	64.4	96.6

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#10

Methyl Iodide

Concen: 46.906 ug/l

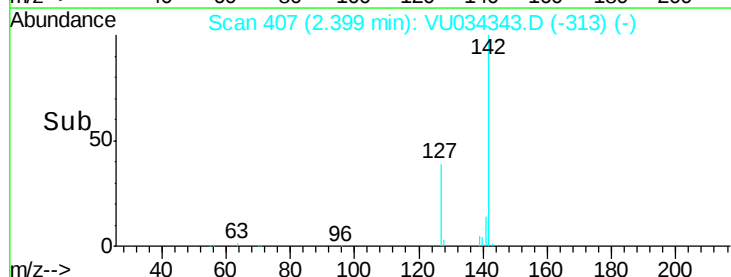
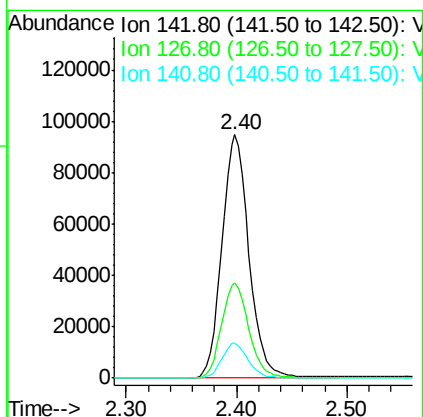
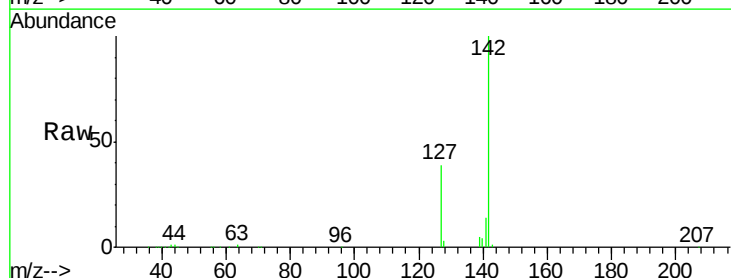
RT: 2.40 min Scan# 407

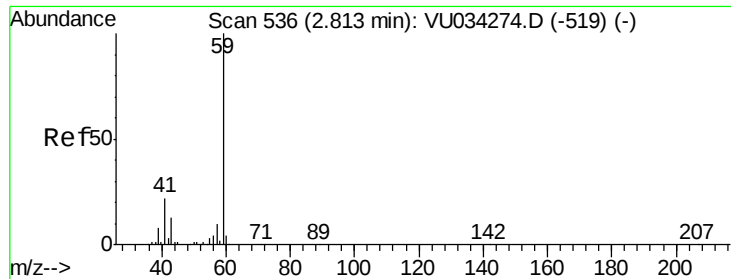
Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion:	142	Resp:	161347
Ion Ratio	Lower	Upper	
142	100		
127	39.6	32.1	48.1
141	13.9	11.5	17.3





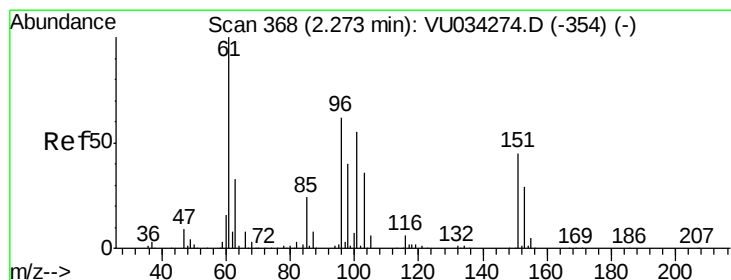
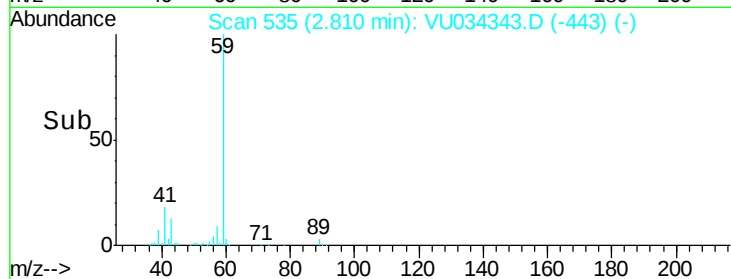
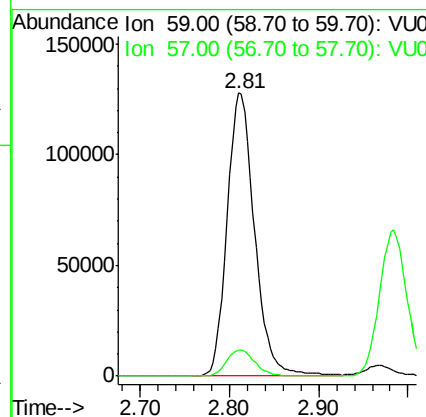
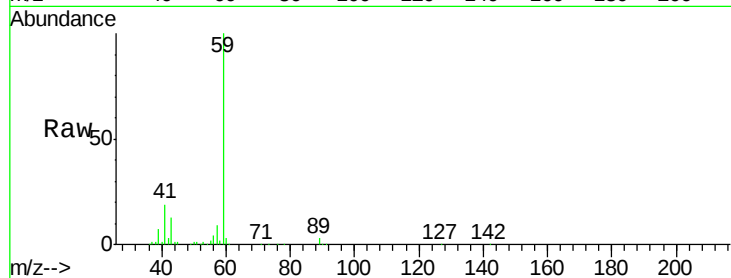
#11
Tert butyl alcohol
Concen: 261.394 ug/l
RT: 2.81 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
59	100	272928		
57	9.5		7.9	11.9

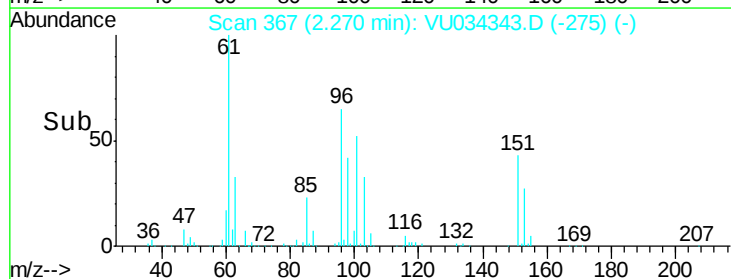
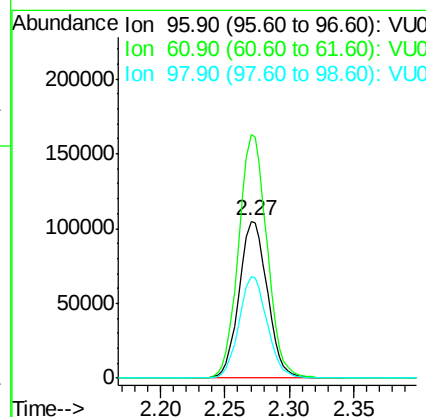
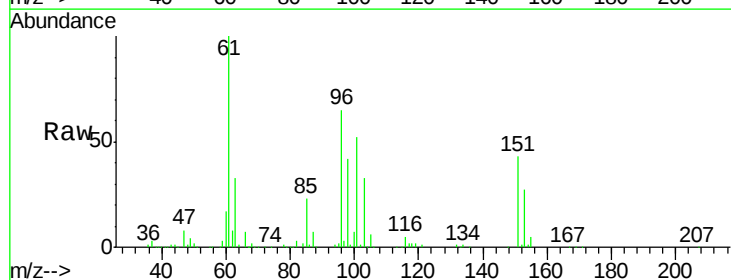
Manual Integrations
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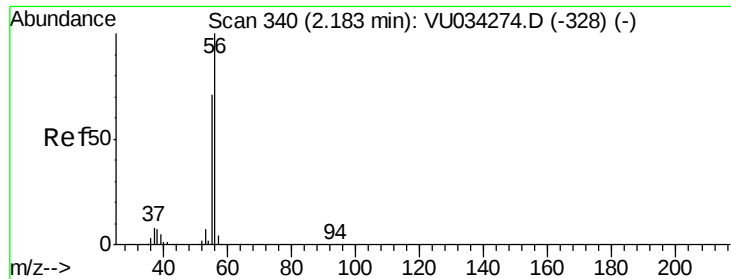
MMDadoda
9/10/2019 1:30:24 PM



#12
1,1-Dichloroethene
Concen: 45.185 ug/l
RT: 2.27 min Scan# 367
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	160587		
61	155.0		130.0	195.0
98	64.3		52.2	78.4





#13

Acrolein

Concen: 149.297 ug/l

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 56 Resp: 131019

Ion Ratio Lower Upper

56 100

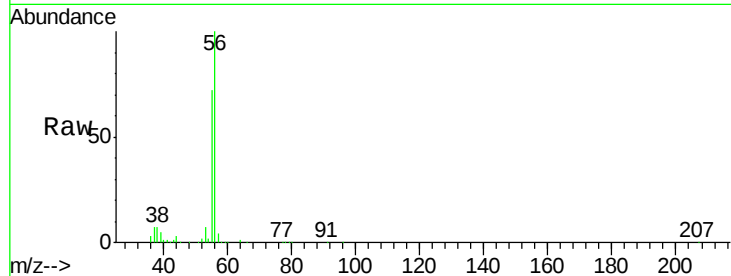
55 71.9 57.4 86.2

Manual Integrations

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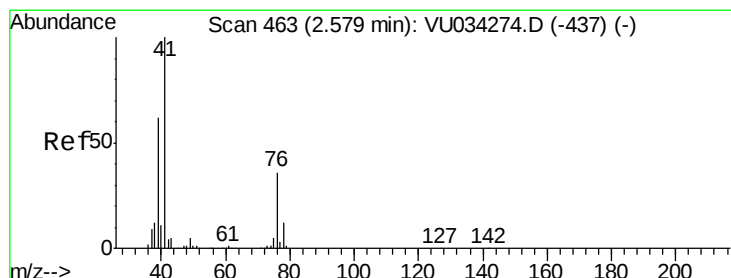
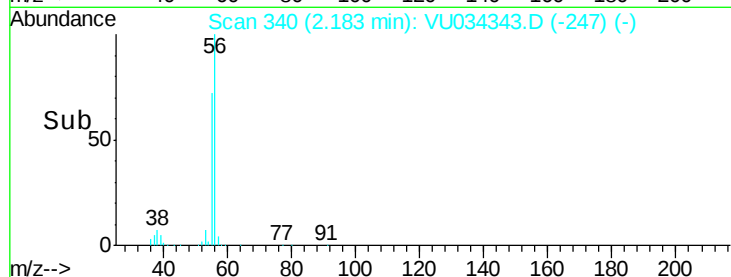
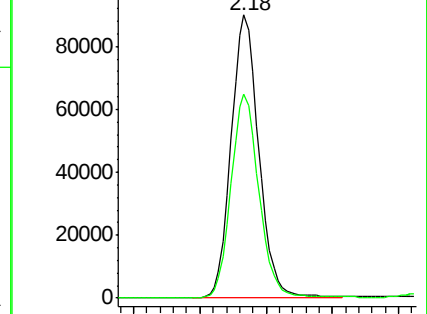
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VU034274.D (-328) (-)

Ion 55.00 (54.70 to 55.70): VU034274.D (-328) (-)



#14

Allyl chloride

Concen: 44.047 ug/l m

RT: 2.58 min Scan# 463

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

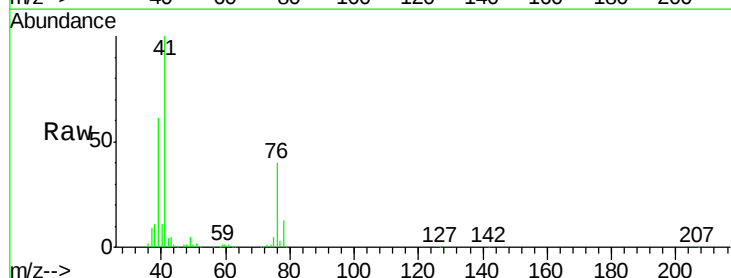
Tgt Ion: 41 Resp: 299273

Ion Ratio Lower Upper

41 100

39 54.3 43.5 65.3

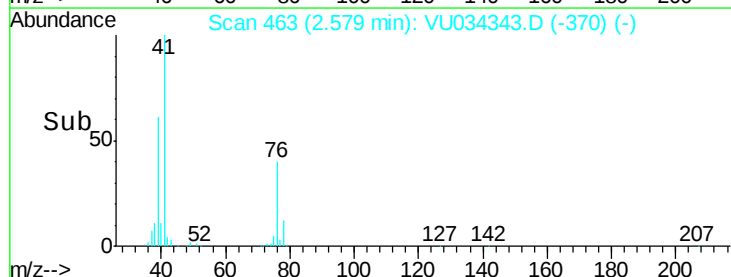
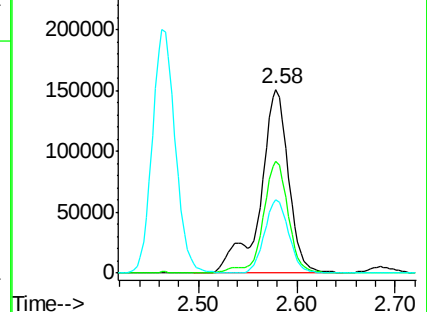
76 33.9 27.0 40.6

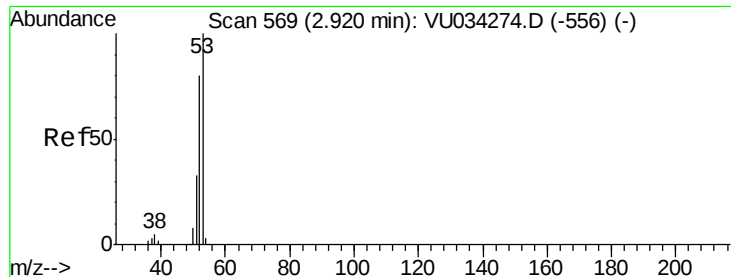


Abundance Ion 41.00 (40.70 to 41.70): VU034274.D (-437) (-)

Ion 39.00 (38.70 to 39.70): VU034274.D (-437) (-)

Ion 75.90 (75.60 to 76.60): VU034274.D (-437) (-)





#15

Acrylonitrile

Concen: 238.039 ug/l

RT: 2.92 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

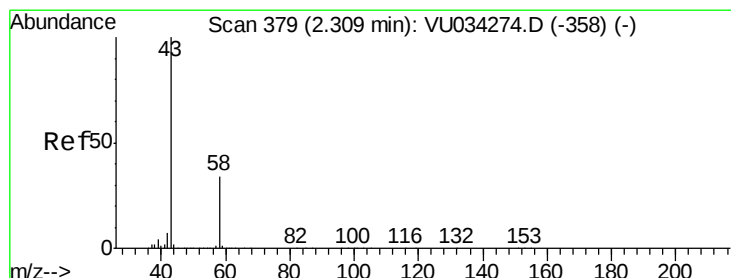
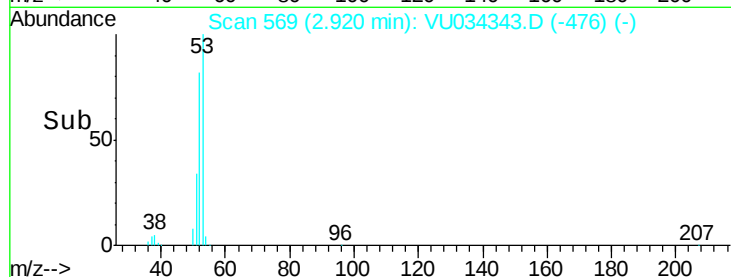
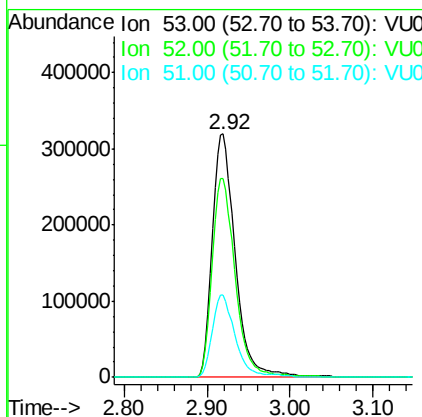
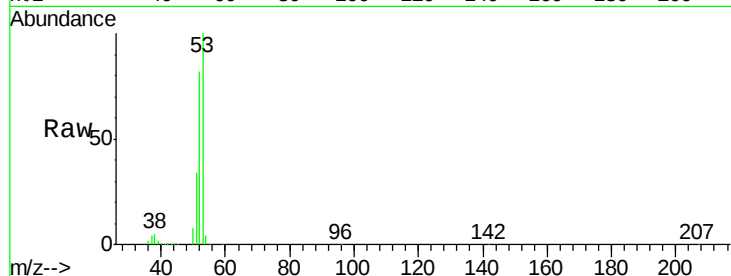
ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:	53	Resp:	618929
Ion	Ratio	Lower	Upper
53	100		
52	82.2	64.1	96.1
51	33.0	27.4	41.0

Manual Integrations
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#16

Acetone

Concen: 190.324 ug/l

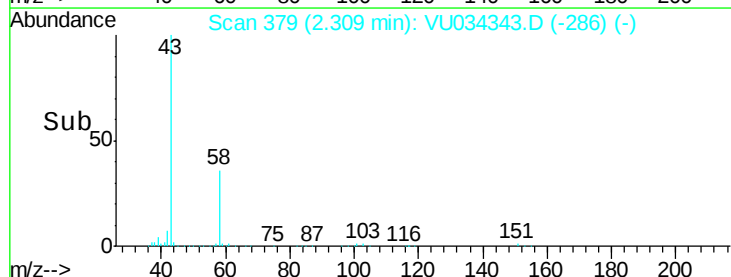
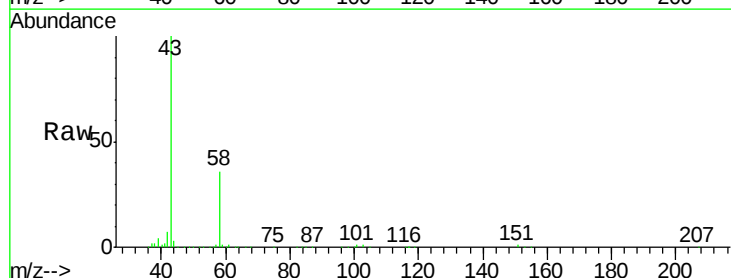
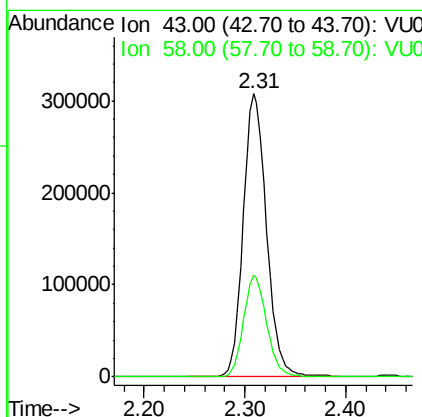
RT: 2.31 min Scan# 379

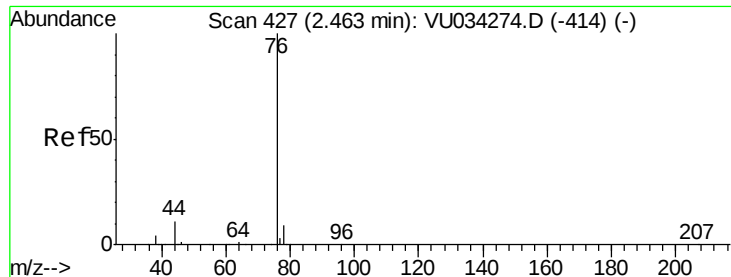
Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion:	43	Resp:	486773
Ion	Ratio	Lower	Upper
43	100		
58	35.7	27.6	41.4





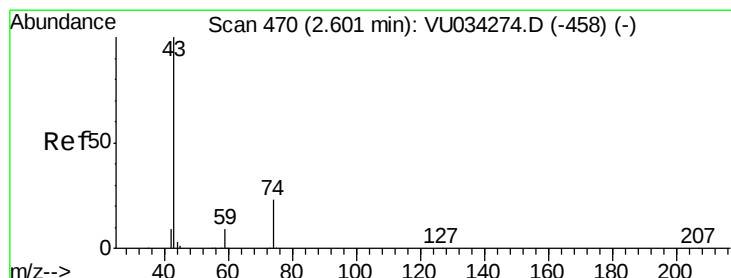
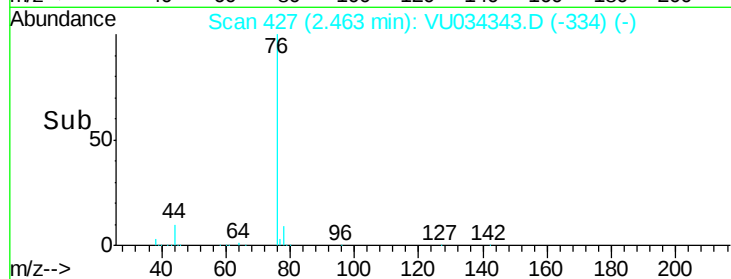
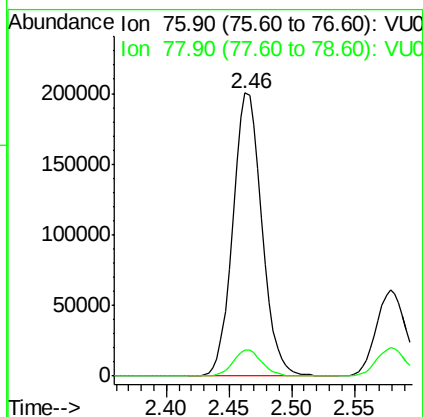
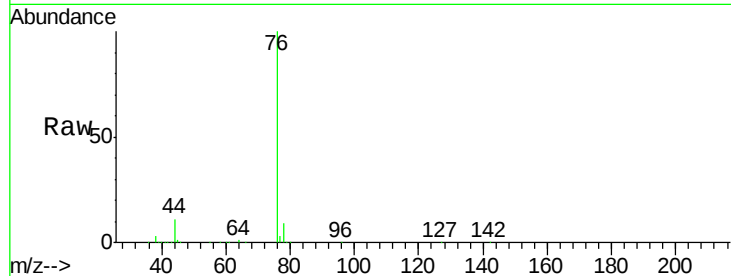
#17
Carbon Disulfide
Concen: 40.334 ug/l
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

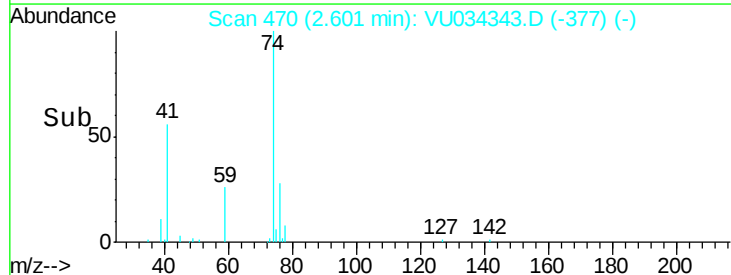
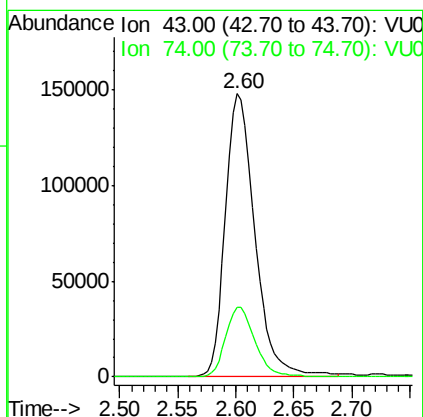
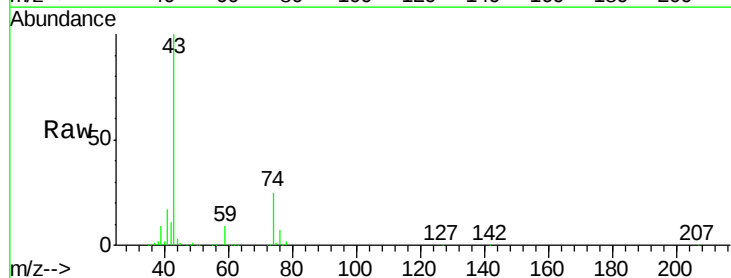
Manual Integrations
APPROVED

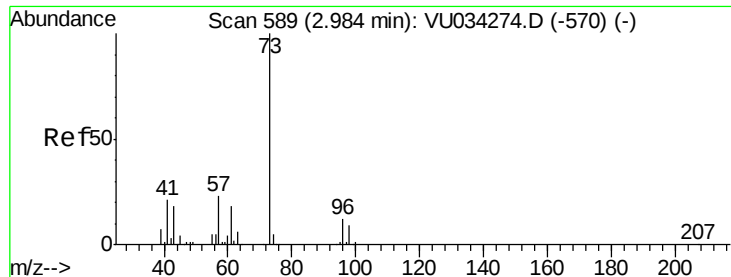
MMDadoda
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#18
Methyl Acetate
Concen: 41.611 ug/l
RT: 2.60 min Scan# 470
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	18.9	28.3





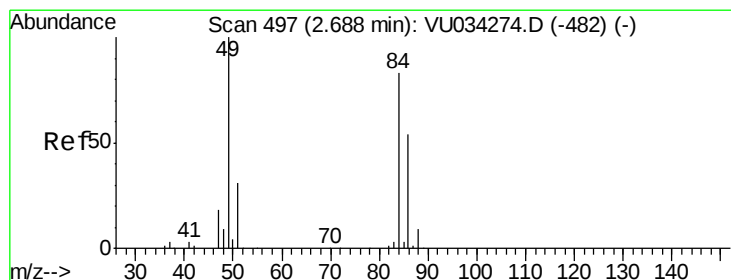
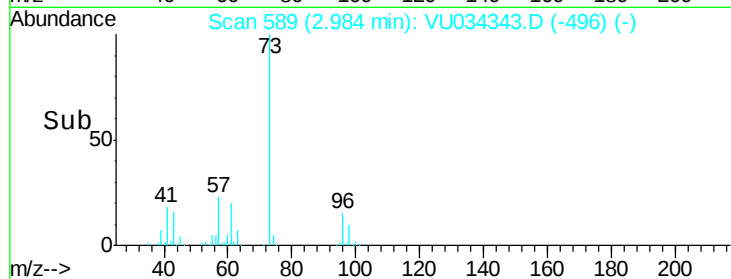
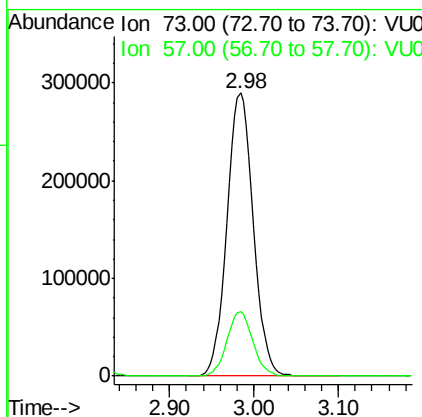
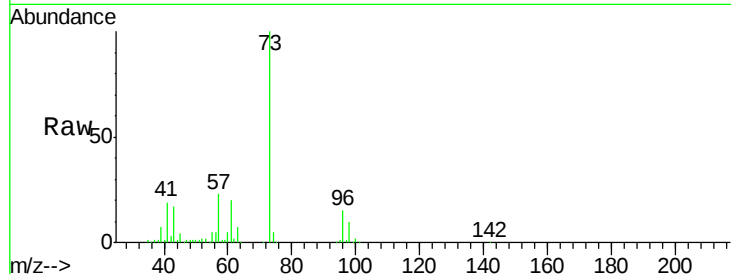
#19
Methvl tert-butvl Ether
Concen: 48.557 ug/l
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 73 Resp: 628997
Ion Ratio Lower Upper
73 100
57 22.9 18.2 27.4

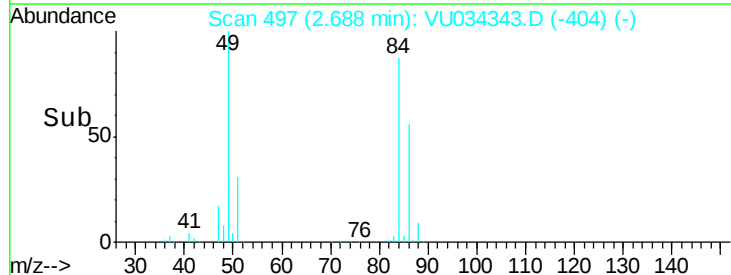
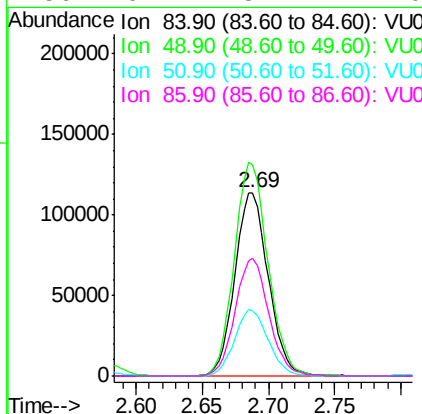
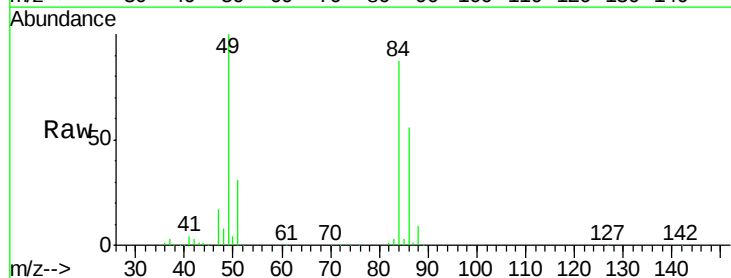
Manual Integrations
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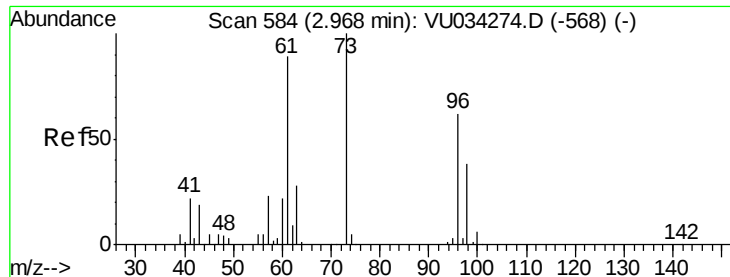
MMDadoda
9/10/2019 1:30:24 PM



#20
Methylene Chloride
Concen: 47.650 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 84 Resp: 199692
Ion Ratio Lower Upper
84 100
49 115.3 96.0 144.0
51 35.6 30.0 45.0
86 64.1 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 57.246 ug/l

RT: 2.97 min Scan# 584

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

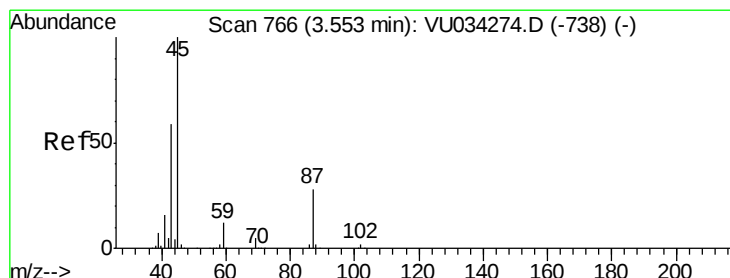
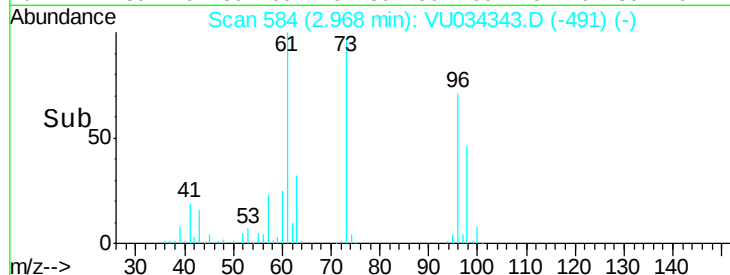
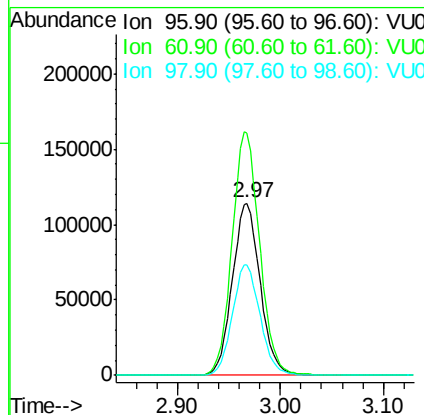
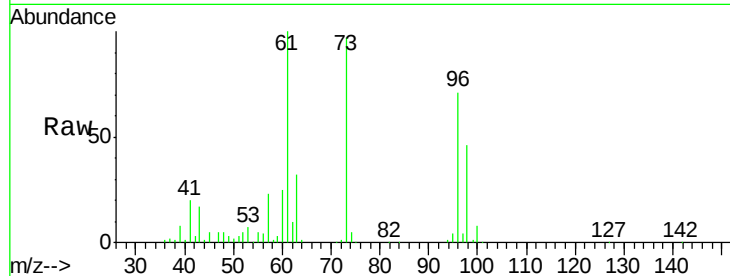
ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:	96	Resp:	214394
Ion	Ratio	Lower	Upper
96	100		
61	140.8	114.8	172.2
98	64.6	49.8	74.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 47.581 ug/l

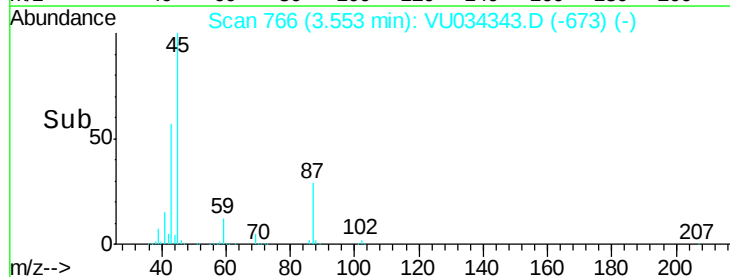
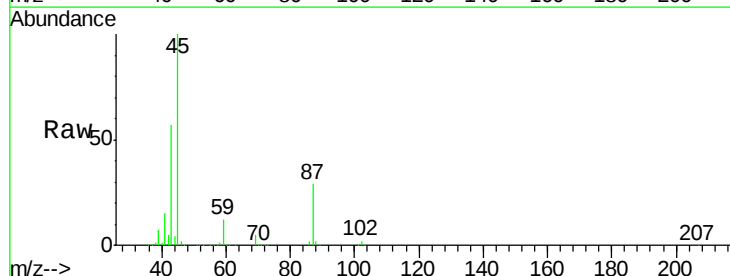
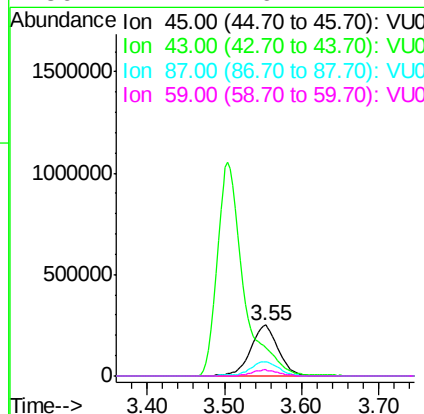
RT: 3.55 min Scan# 766

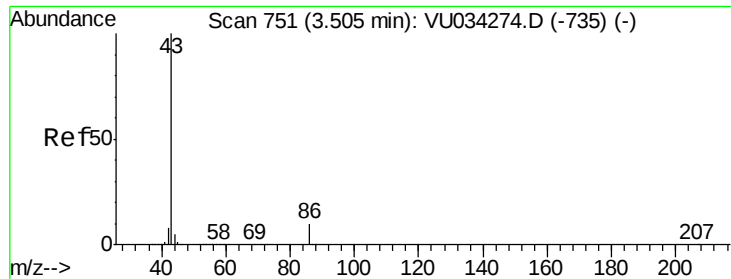
Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion:	45	Resp:	630452
Ion	Ratio	Lower	Upper
45	100		
43	56.7	47.5	71.3
87	28.9	22.2	33.4
59	11.7	9.4	14.2





#23

Vinyl Acetate

Concen: 233.799 ug/l

RT: 3.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 43 Resp: 2523410

Ion Ratio Lower Upper

43 100

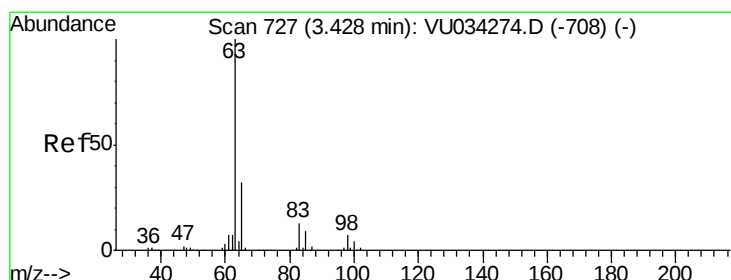
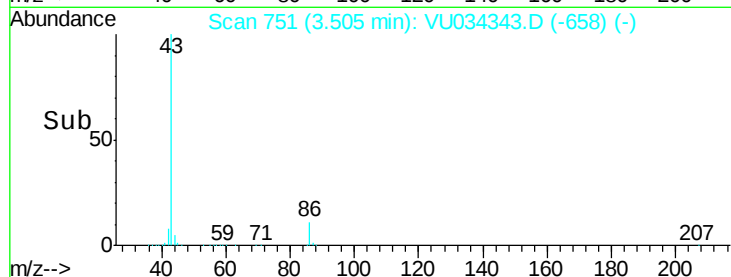
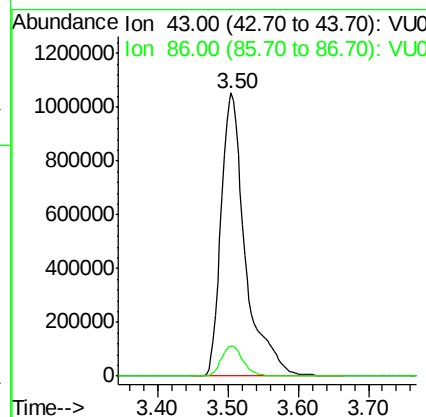
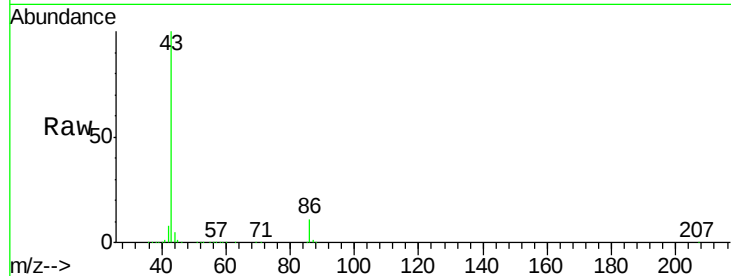
86 10.8 8.3 12.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 44.844 ug/l

RT: 3.43 min Scan# 727

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

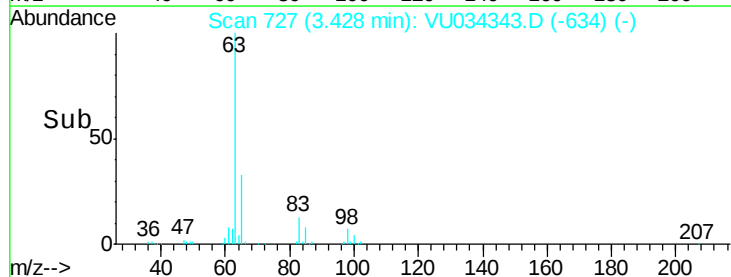
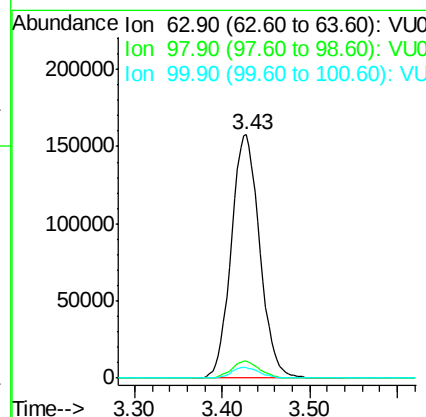
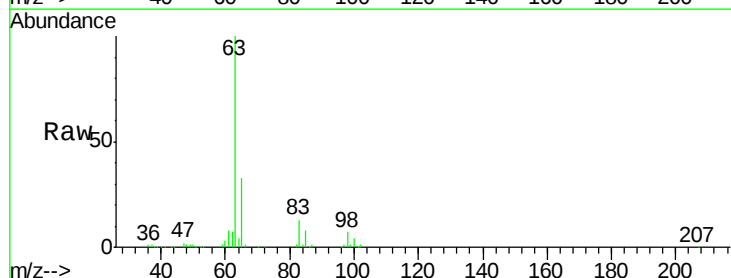
Tgt Ion: 63 Resp: 354845

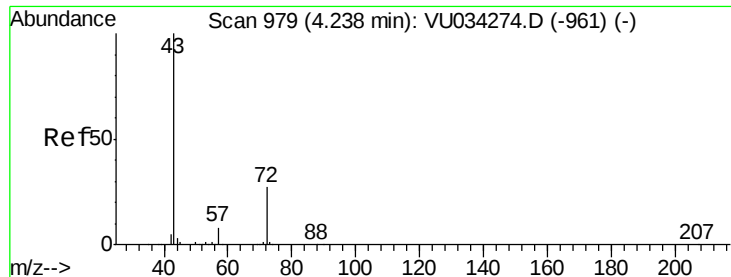
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.4

100 4.2 2.1 6.5





#25

2-Butanone

Concen: 235.498 ug/l

RT: 4.24 min Scan# 979

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 43 Resp: 804005

Ion Ratio Lower Upper

43 100

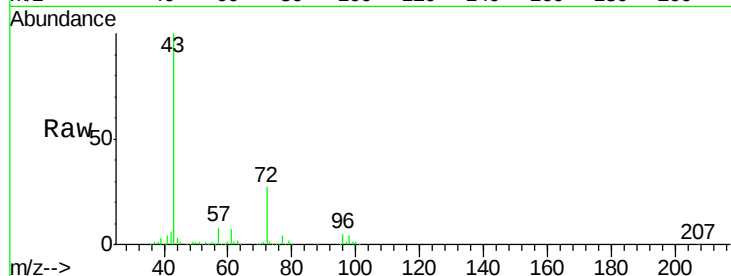
72 27.3 21.8 32.6

Manual Integrations

APPROVED

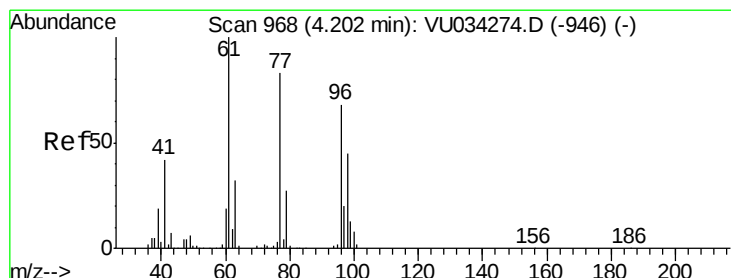
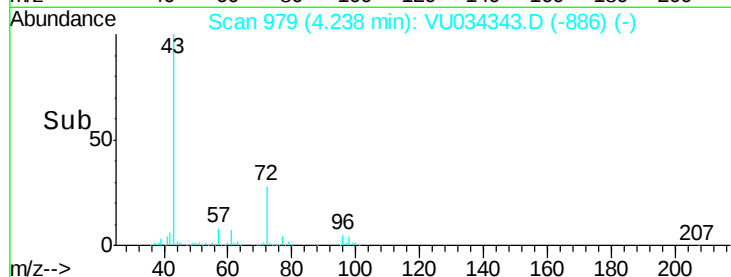
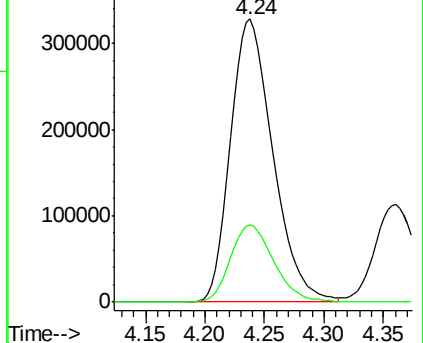
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 39.877 ug/l

RT: 4.20 min Scan# 968

Delta R.T. -0.00 min

Lab File: VU034343.D

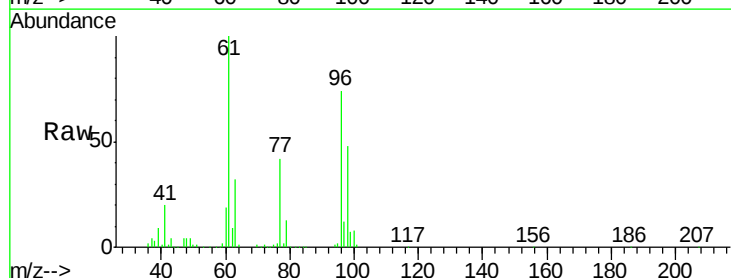
Acq: 06 Sep 2019 20:03

Tgt Ion: 77 Resp: 253787

Ion Ratio Lower Upper

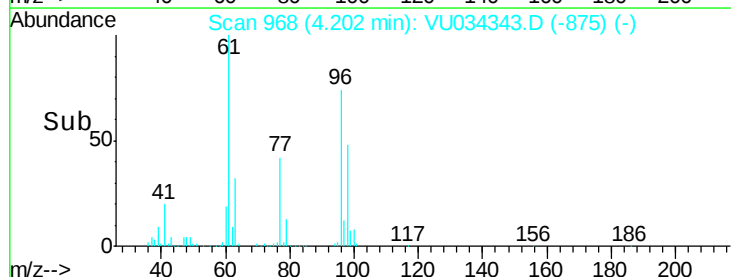
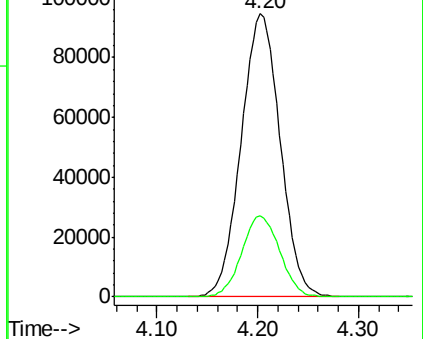
77 100

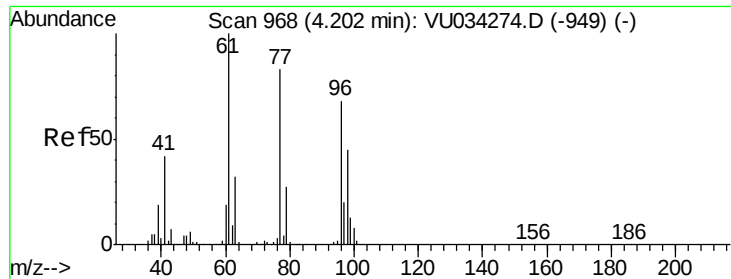
97 27.9 11.8 35.3



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

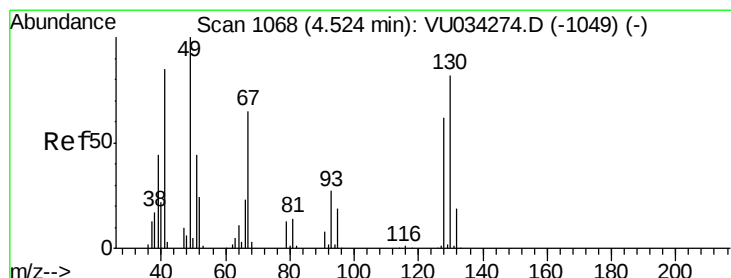
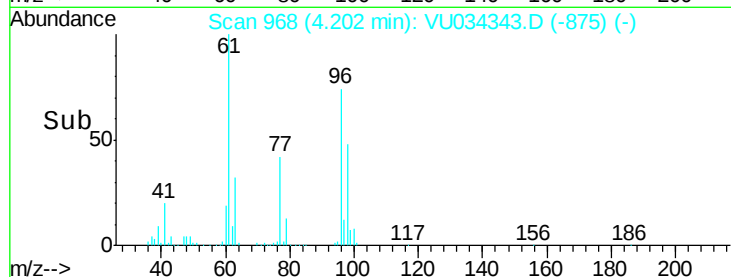
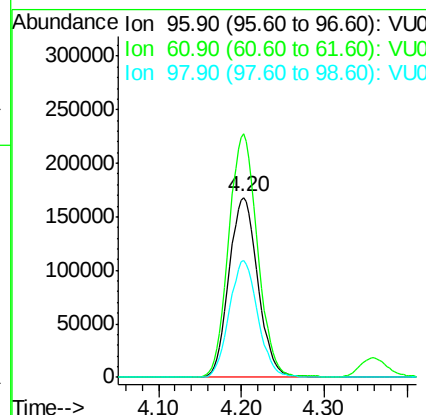
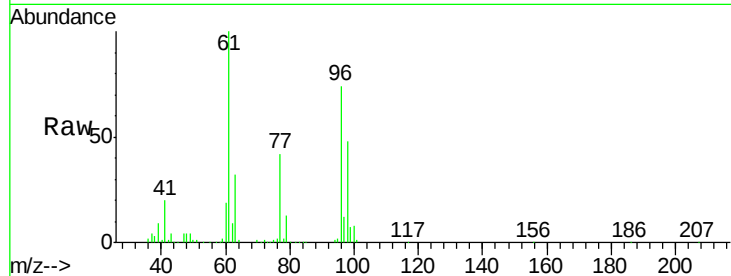
cis-1,2-Dichloroethene
 Concen: 89.646 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		407763		
61	135.1	0.0	297.4		
98	64.4	0.0	130.0		

Manual Integrations
 APPROVED

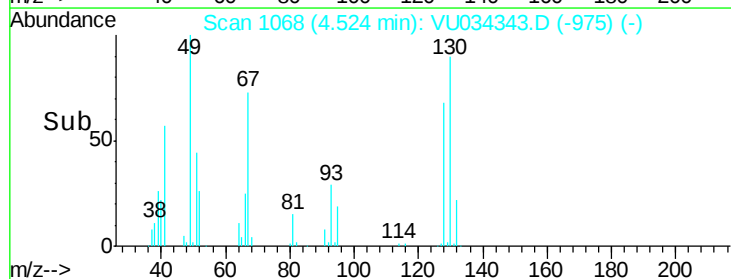
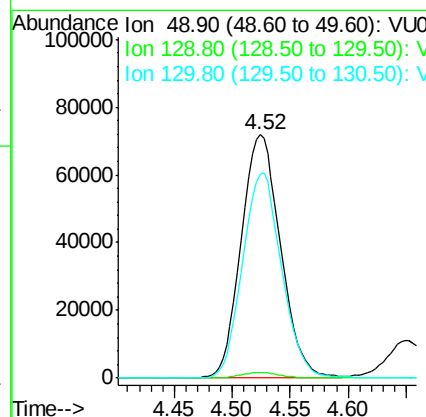
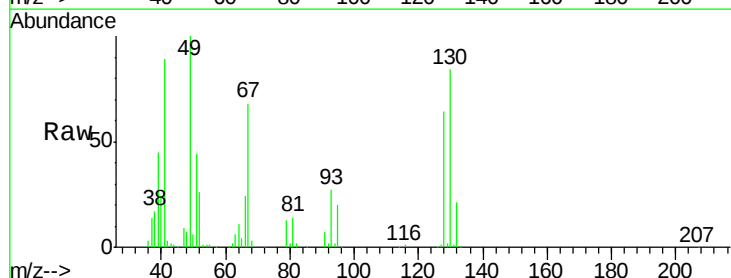
MMDadoda
 9/10/2019 1:30:24 PM

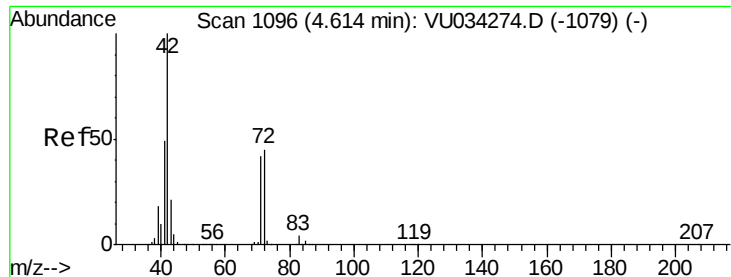


#28

Bromochloromethane
 Concen: 46.745 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		170135		
129	2.3	0.0	3.8		
130	83.8	65.2	97.8		





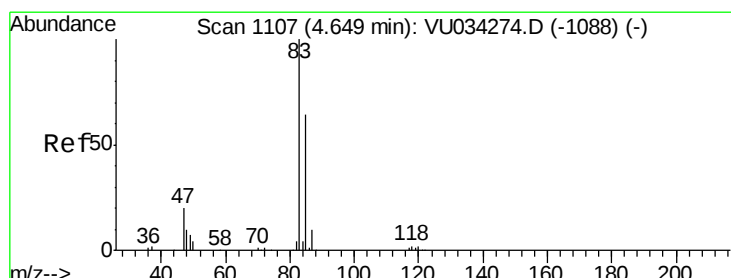
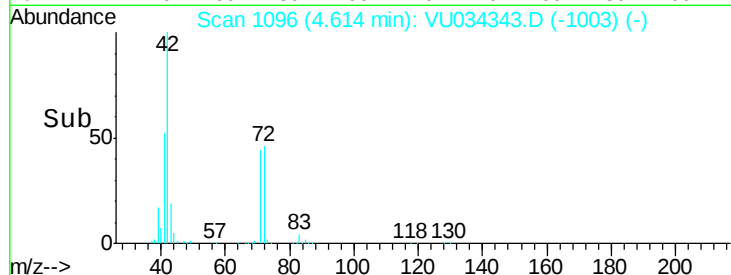
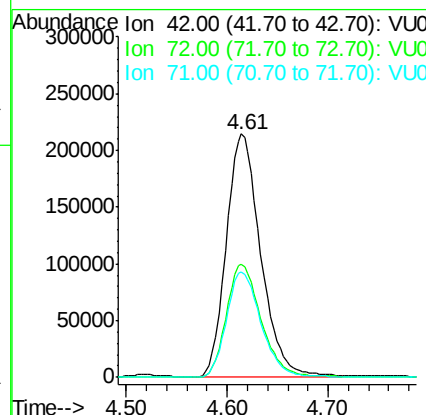
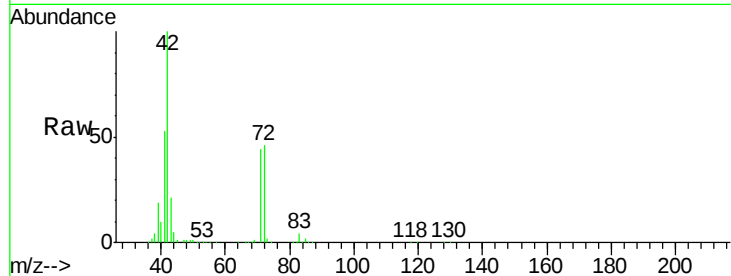
#29
Tetrahydrofuran
Concen: 244.731 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion:	42	Resp:	508425
Ion Ratio	Lower	Upper	
42	100		
72	47.0	36.6	54.8
71	43.8	34.3	51.5

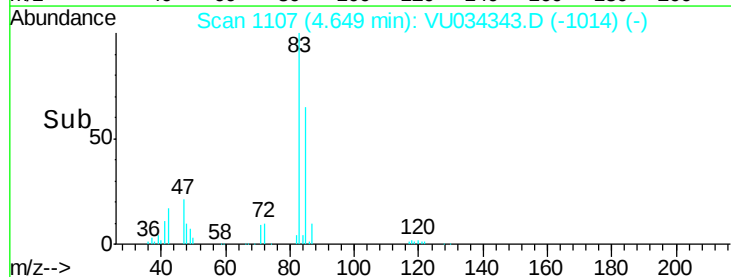
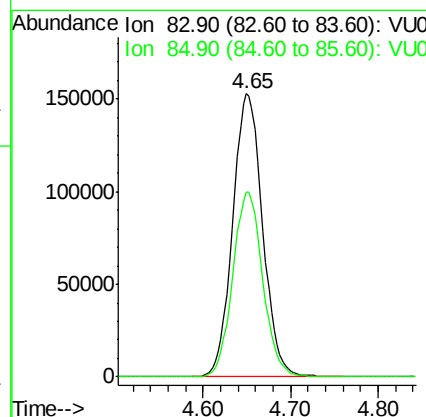
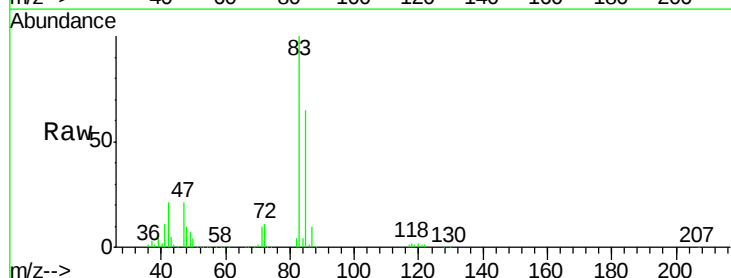
Manual Integrations
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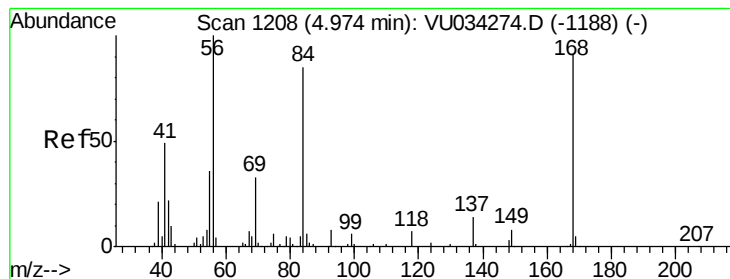
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#30
Chloroform
Concen: 45.070 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion:	83	Resp:	362507
Ion Ratio	Lower	Upper	
83	100		
85	65.0	51.5	77.3





#31

Cvclohexane

Concen: 44.839 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 56 Resp: 259570

Ion Ratio Lower Upper

56 100

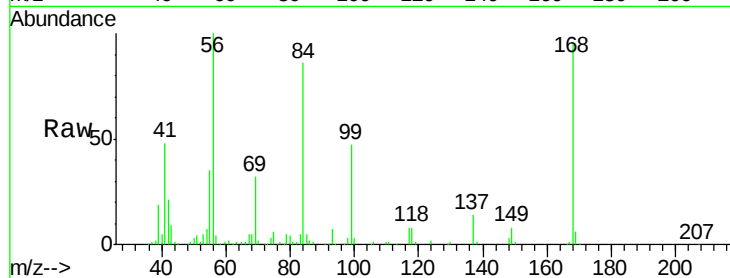
69 32.2 26.7 40.1

84 85.0 68.2 102.4

Manual Integrations
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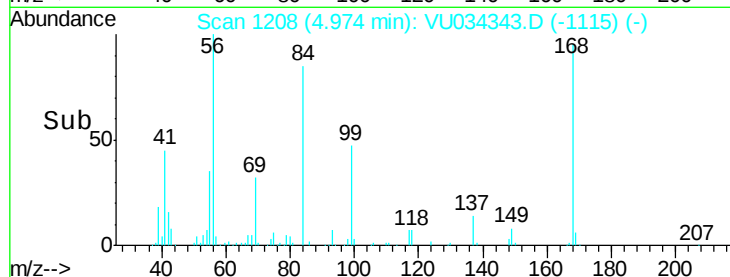
9/10/2019 1:30:24 PM



Abundance Ion 56.00 (55.70 to 56.70): VU034343.D (-1115) (-)

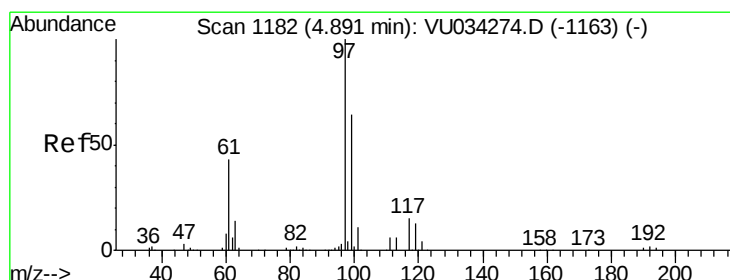
Ion 69.00 (68.70 to 69.70): VU034343.D (-1115) (-)

Ion 84.00 (83.70 to 84.70): VU034343.D (-1115) (-)



Abundance

Time-->



#32

1,1,1-Trichloroethane

Concen: 45.041 ug/l

RT: 4.89 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

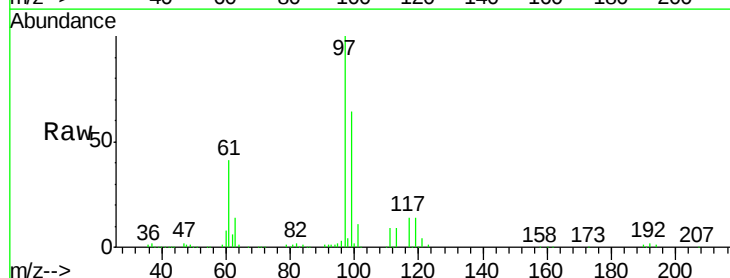
Tgt Ion: 97 Resp: 289644

Ion Ratio Lower Upper

97 100

99 63.9 50.9 76.3

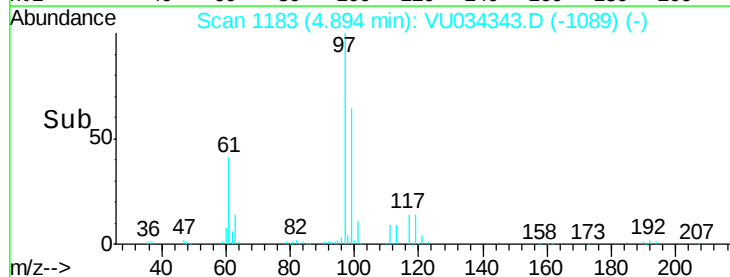
61 41.3 34.7 52.1



Abundance Ion 96.90 (96.60 to 97.60): VU034343.D (-1089) (-)

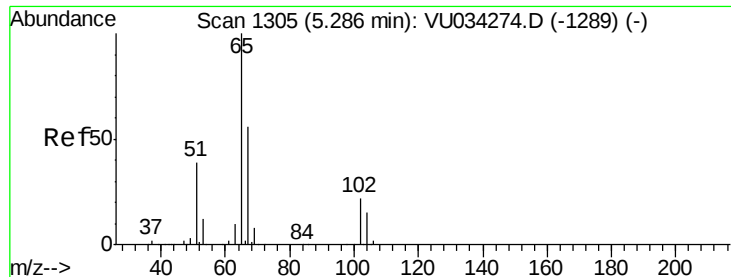
Ion 98.90 (98.60 to 99.60): VU034343.D (-1089) (-)

Ion 60.90 (60.60 to 61.60): VU034343.D (-1089) (-)



Abundance

Time-->



#33

1,2-Dichloroethane-d4

Concen: 45.200 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 65 Resp: 22390

Ion Ratio Lower Upper

65 100

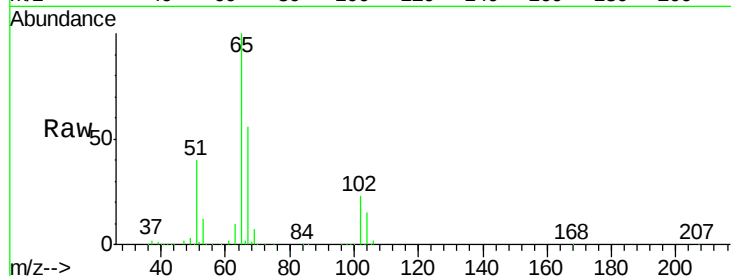
67 55.3 0.0 112.4

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VU034343.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034343.D (-1212) (-)

5.29

120000

100000

80000

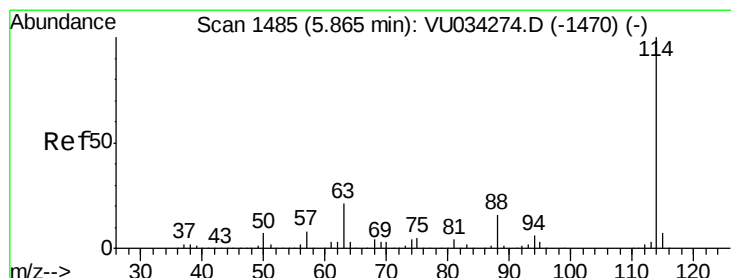
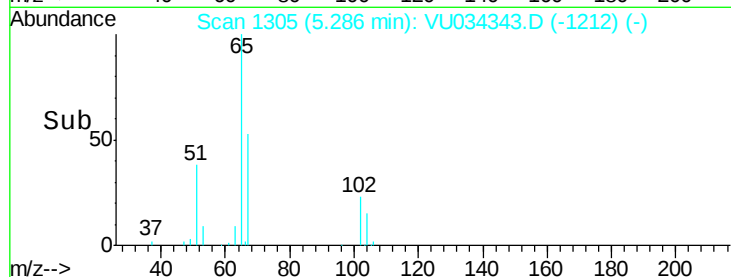
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

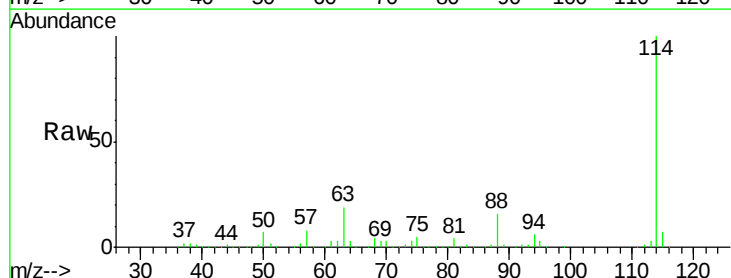
Tgt Ion: 114 Resp: 474850

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 15.6 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): VU034343.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034343.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034343.D (-1392) (-)

5.86

300000

250000

200000

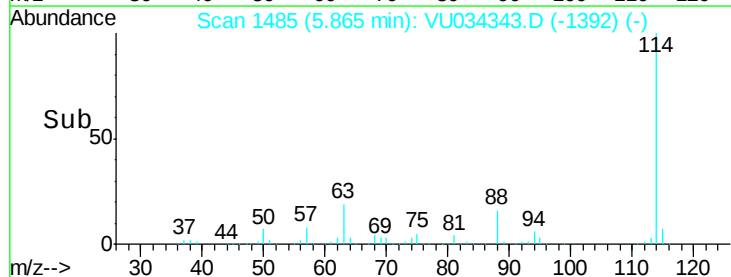
150000

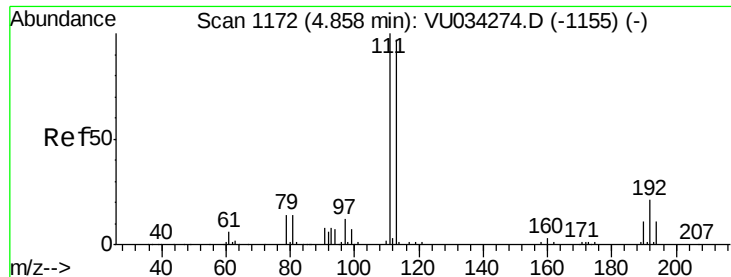
100000

50000

0

Time-->





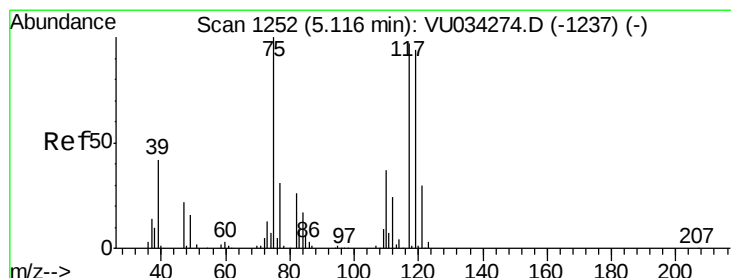
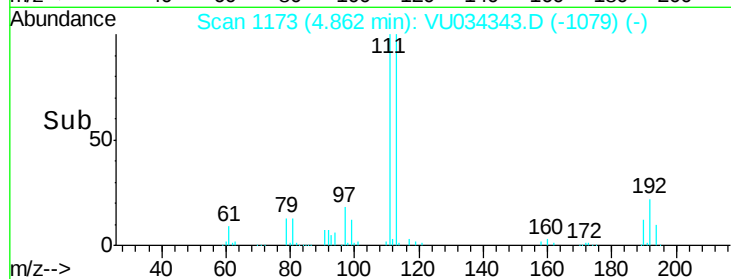
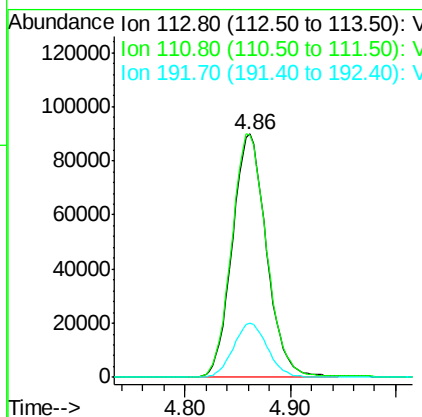
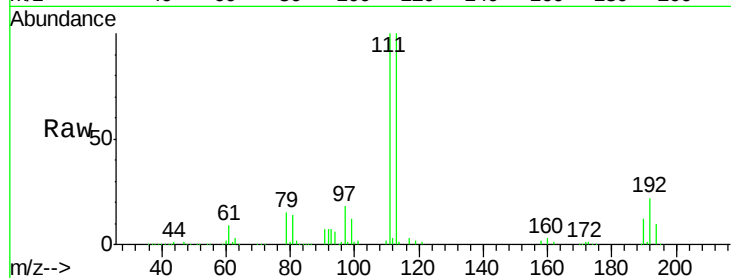
#35
 Dibromofluoromethane
 Concen: 45.810 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	202410		
111	101.3	81.5	122.3	
192	22.3	17.8	26.8	

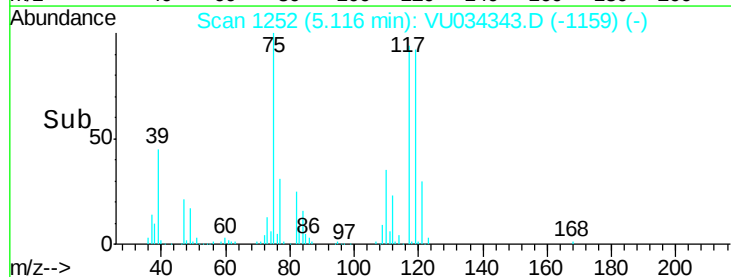
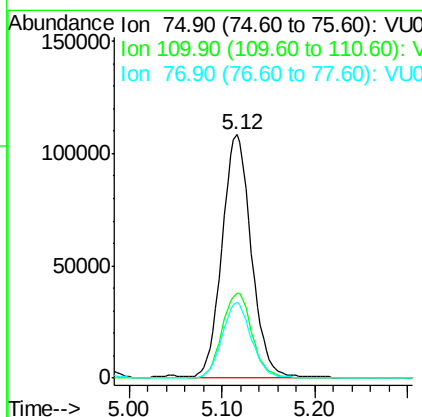
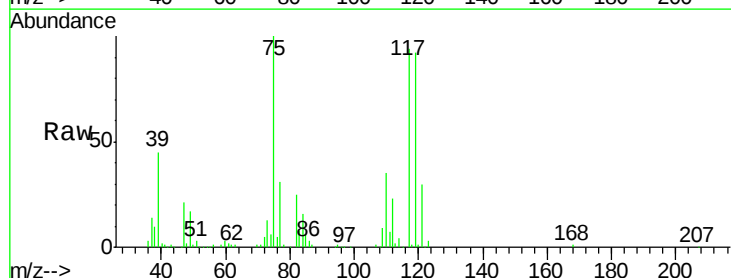
Manual Integrations
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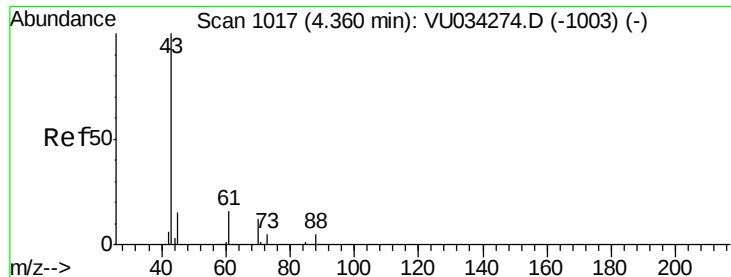
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 9/10/2019 1:30:24 PM



#36
 1,1-Dichloropropene
 Concen: 45.805 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	235889		
110	36.0	18.3	54.9	
77	30.8	24.9	37.3	





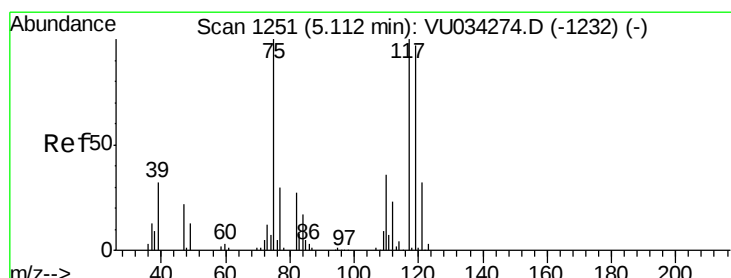
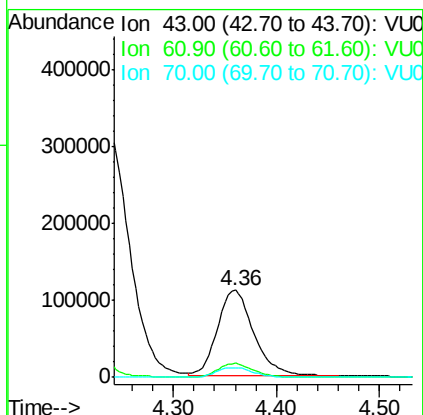
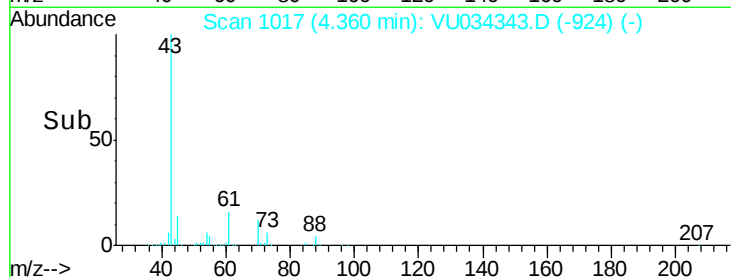
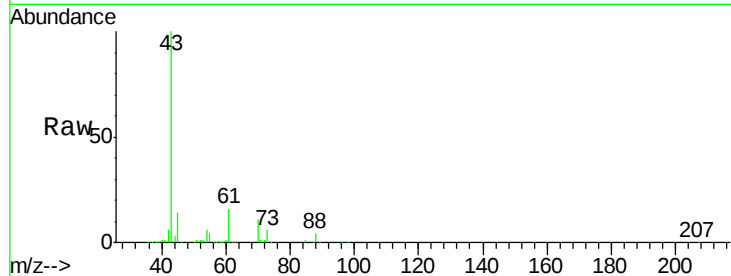
#37
Ethyl Acetate
Concen: 45.534 ug/l
RT: 4.36 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	12.3	18.5
70	11.7	9.1	13.7

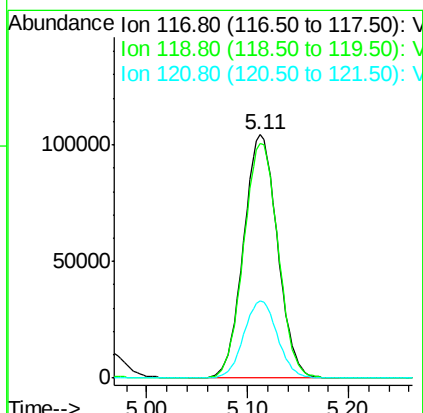
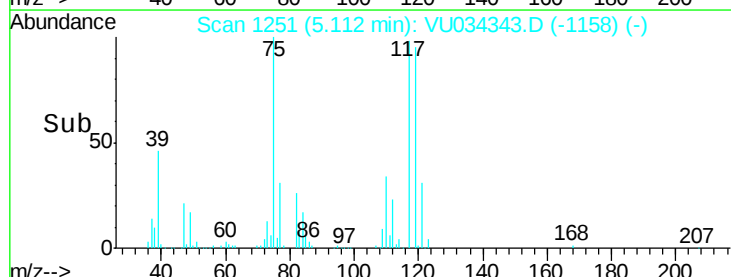
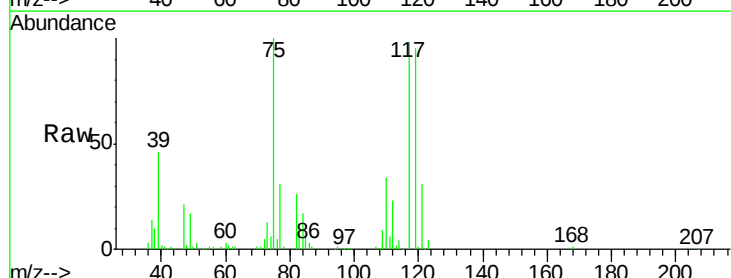
Manual Integrations
APPROVED

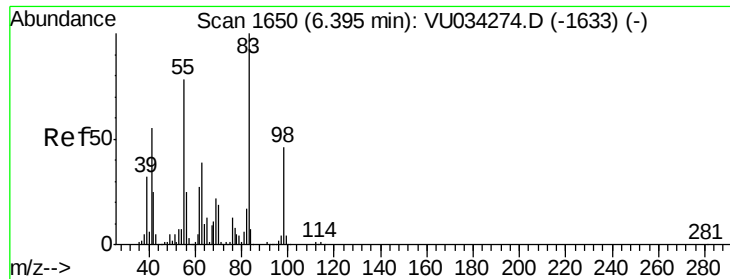
MMDadoda
9/10/2019 1:30:24 PM



#38
Carbon Tetrachloride
Concen: 44.069 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.8	116.6
121	31.7	25.2	37.8





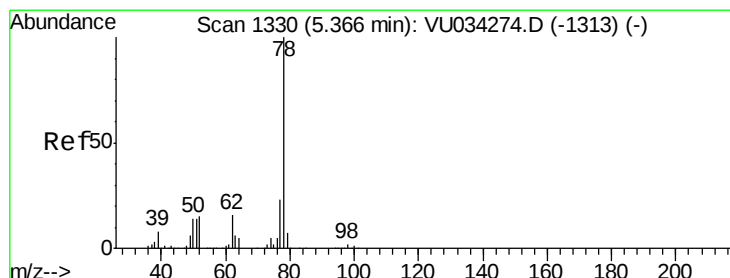
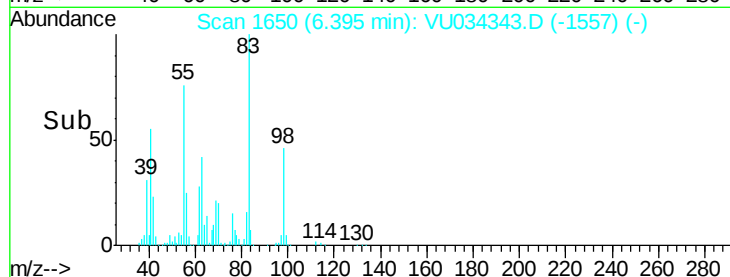
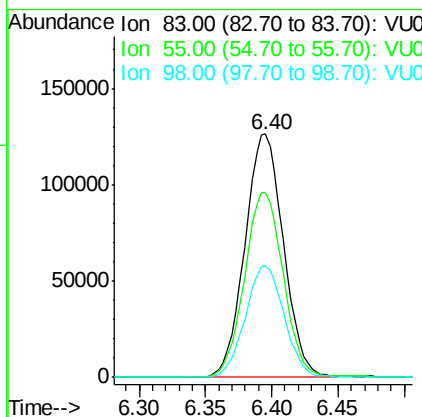
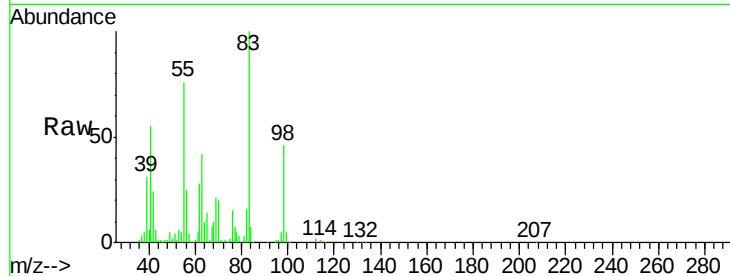
#39
Methylvlcyclohexane
Concen: 46.273 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.7	62.1	93.1
98	46.0	37.0	55.6

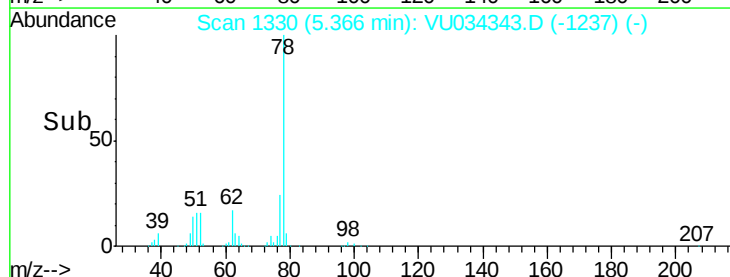
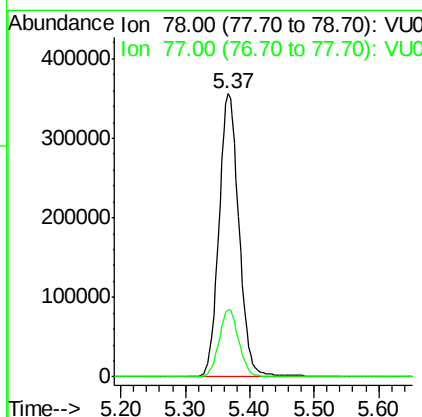
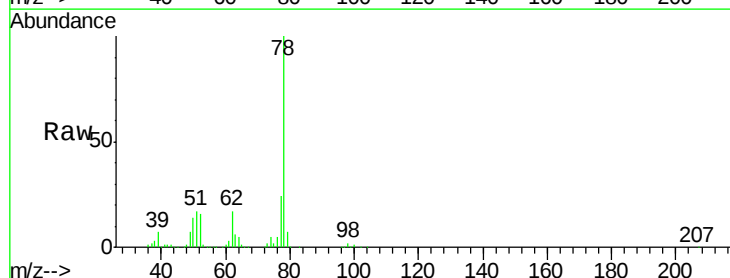
Manual Integrations
APPROVED

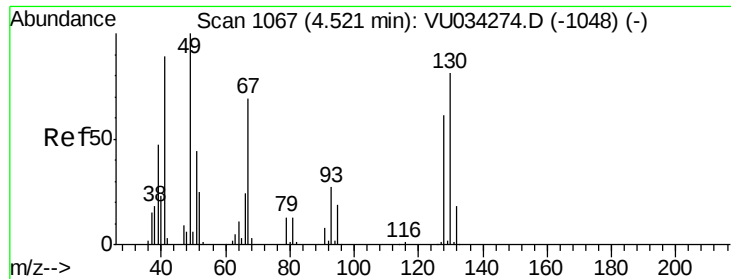
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9/10/2019 1:30:24 PM



#40
Benzene
Concen: 46.357 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1





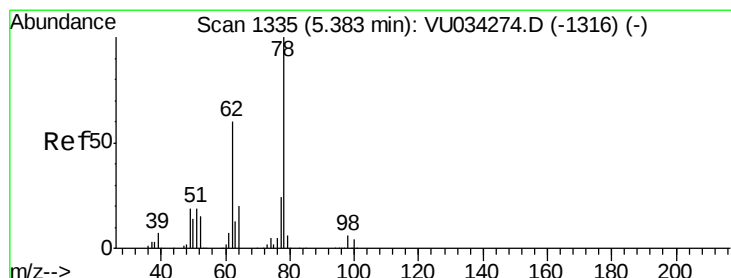
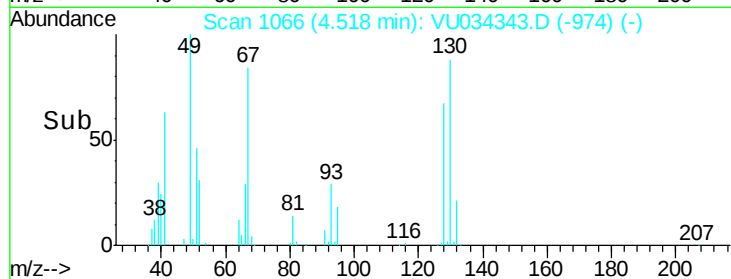
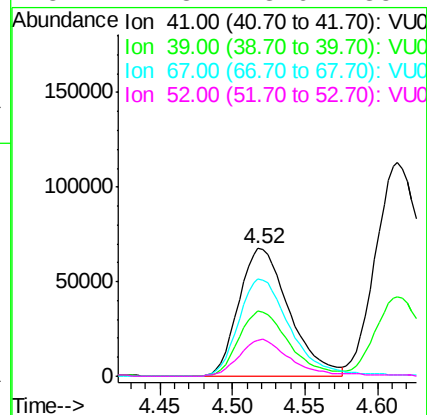
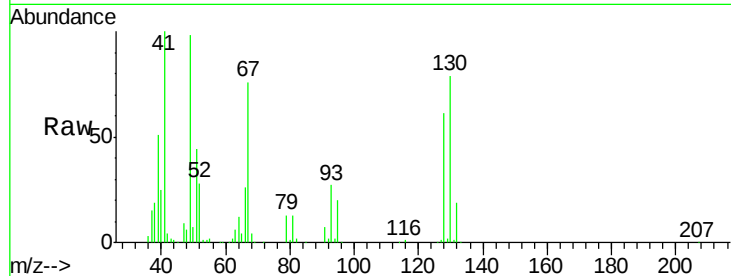
#41
Methacrylonitrile
Concen: 50.608 ug/l
RT: 4.52 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		164132		
39	50.1	41.0	61.4		
67	78.1	62.4	93.6		
52	27.8	23.6	35.4		

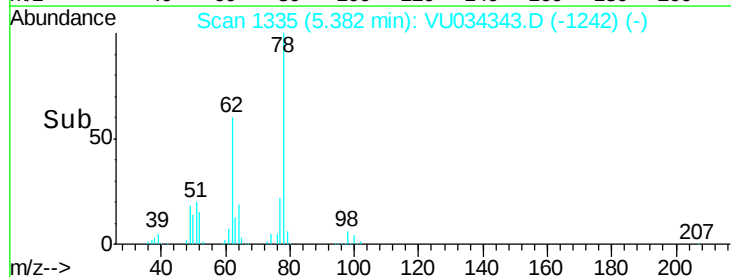
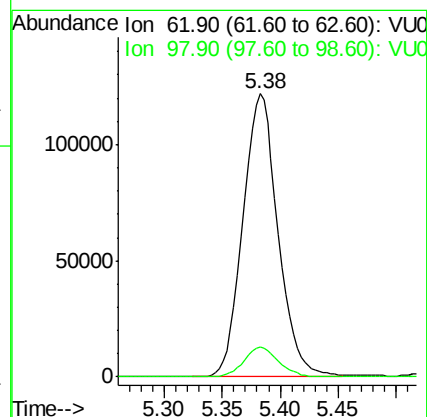
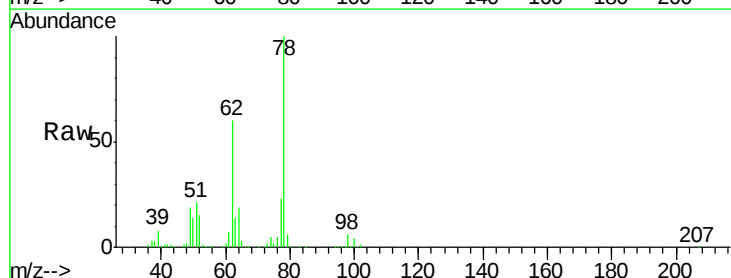
Manual Integrations
APPROVED

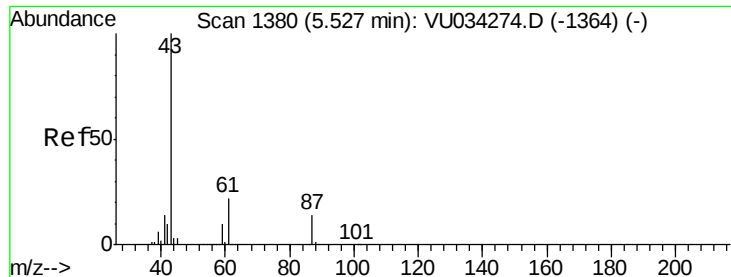
MMDadoda
9/10/2019 1:30:24 PM



#42
1,2-Dichloroethane
Concen: 44.498 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		256723		
98	10.4	0.0	20.0		





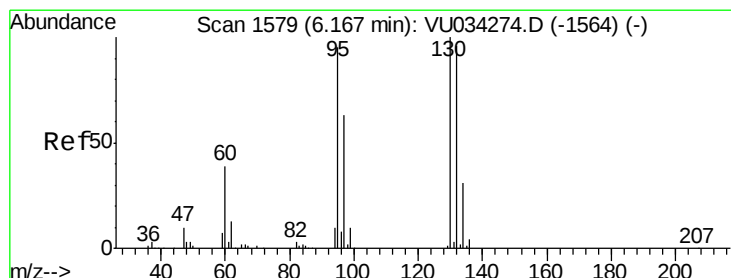
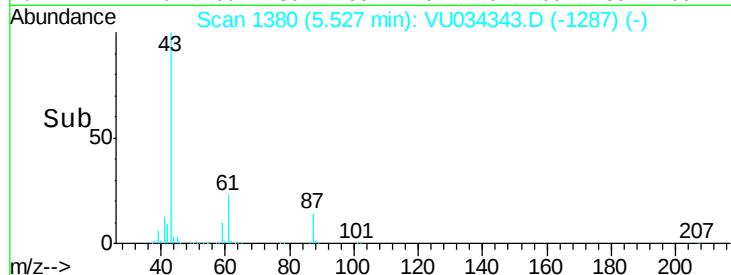
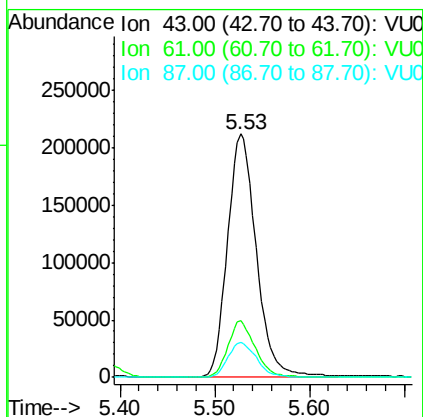
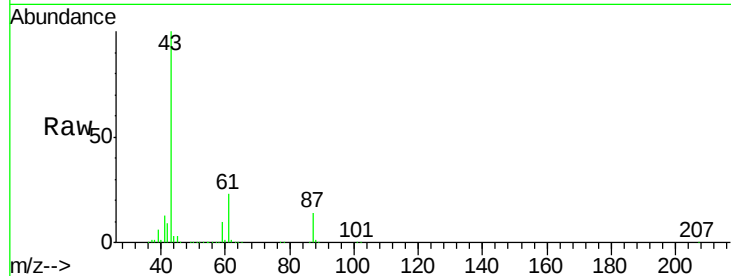
#43
Isopropyl Acetate
Concen: 46.970 ug/l
RT: 5.53 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	22.3	17.1	25.7
87	14.5	11.1	16.7

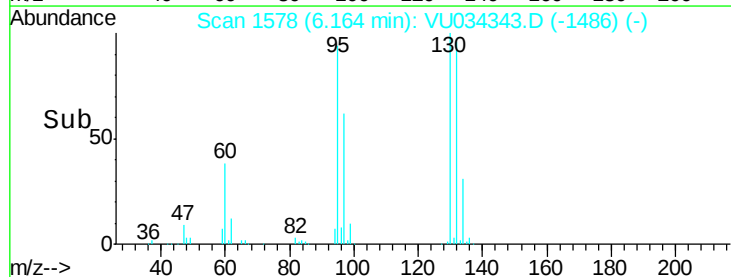
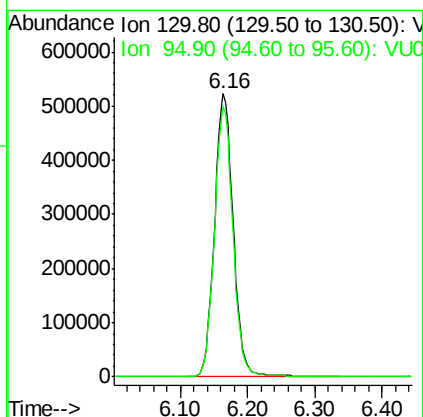
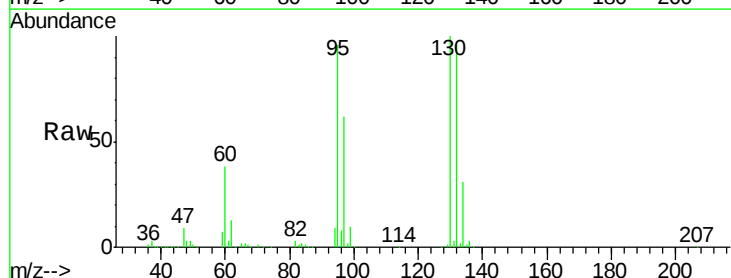
Manual Integrations
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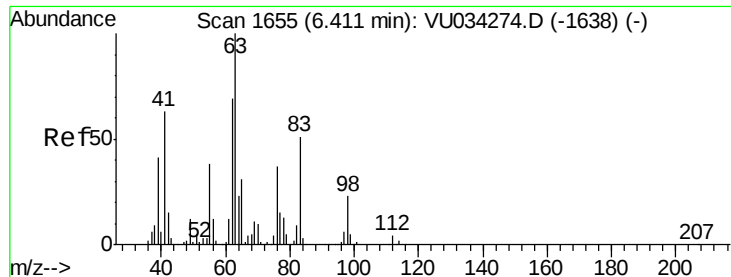
MMDadoda
9/10/2019 1:30:24 PM



#44
Trichloroethene
Concen: 221.166 ug/l
RT: 6.16 min Scan# 1578
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	189.2





#45

1,2-Dichloropropane

Concen: 45.782 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 63 Resp: 222405

Ion Ratio Lower Upper

63 100

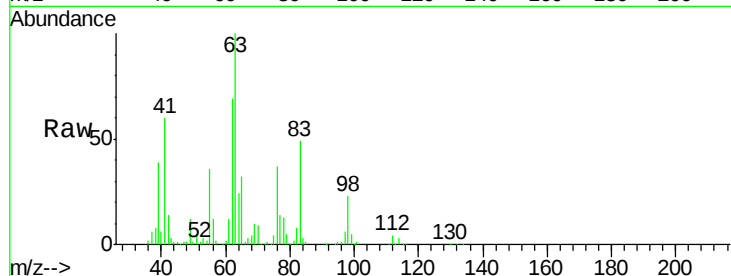
65 31.7 24.6 37.0

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VU034274.D (-1638) (-)

Ion 64.90 (64.60 to 65.60): VU034274.D (-1638) (-)

6.41

120000

100000

80000

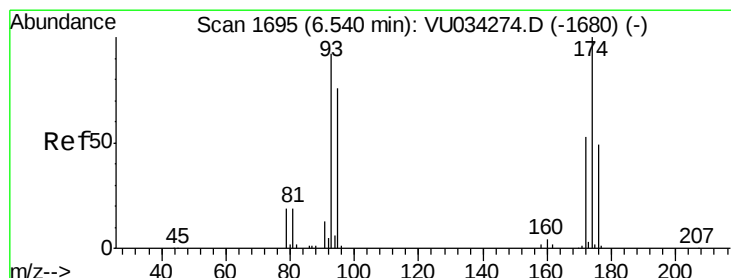
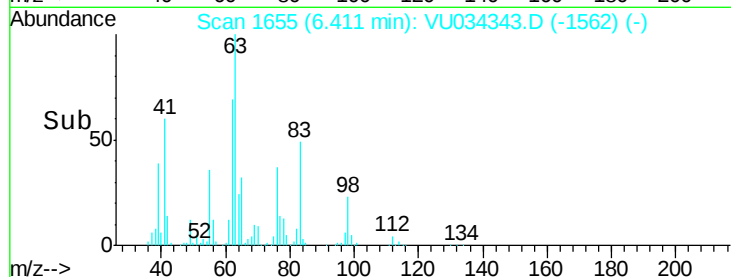
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 45.861 ug/l

RT: 6.54 min Scan# 1694

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

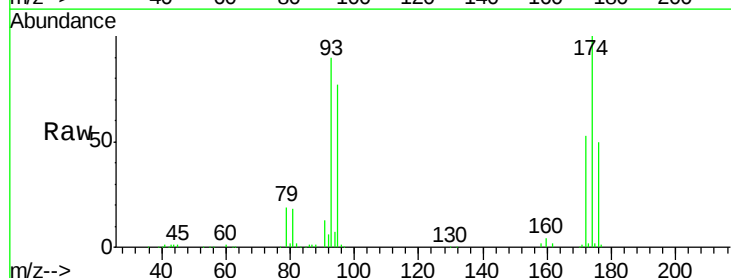
Tgt Ion: 93 Resp: 139846

Ion Ratio Lower Upper

93 100

95 82.5 66.5 99.7

174 112.8 87.8 131.6



Abundance Ion 92.80 (92.50 to 93.50): VU034274.D (-1680) (-)

Ion 94.80 (94.50 to 95.50): VU034274.D (-1680) (-)

Ion 173.70 (173.40 to 174.40): VU034274.D (-1680) (-)

100000

80000

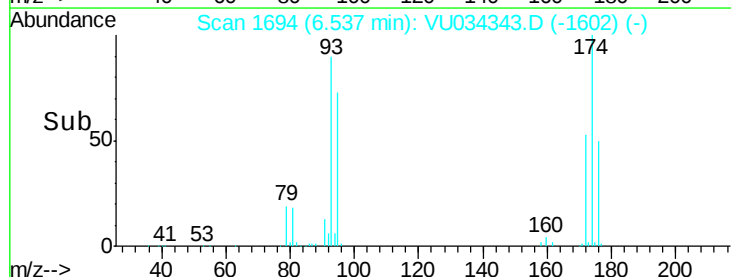
60000

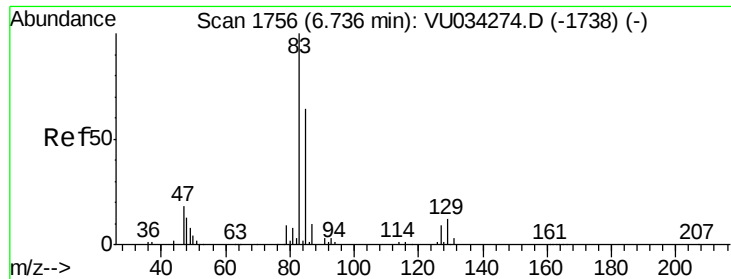
40000

20000

0

Time-->





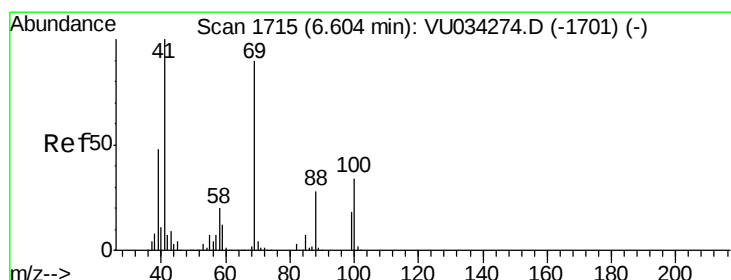
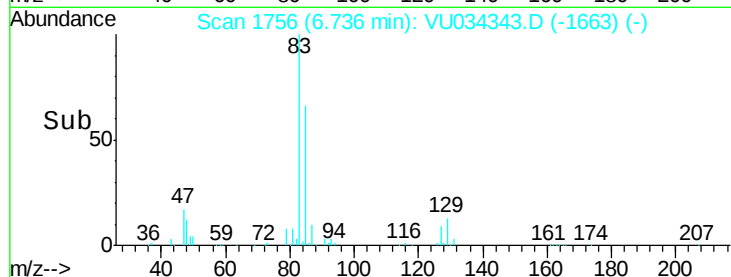
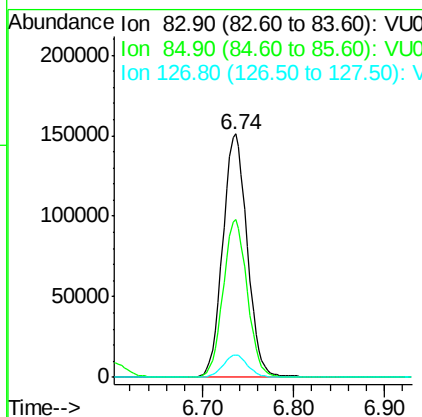
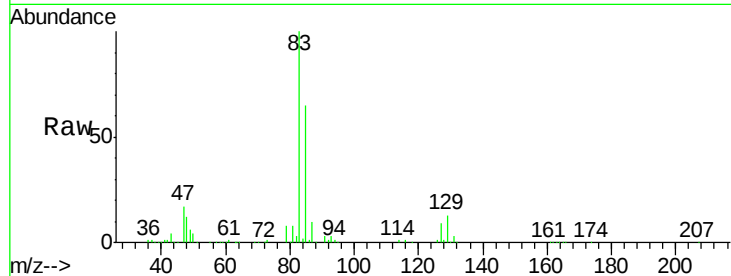
#47
Bromodichloromethane
Concen: 44.914 ug/l
RT: 6.74 min Scan# 1756
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	83	Resp	281917
Ion Ratio	100	Lower	Upper
83	100		
85	65.0	51.1	76.7
127	9.3	7.2	10.8

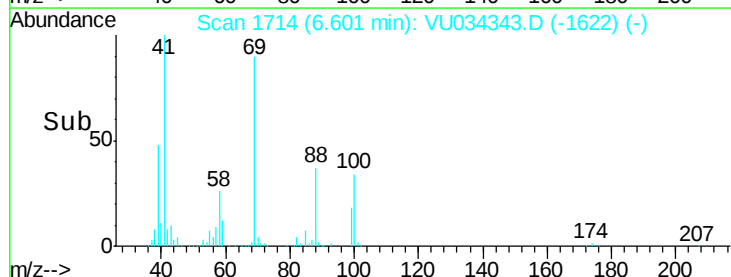
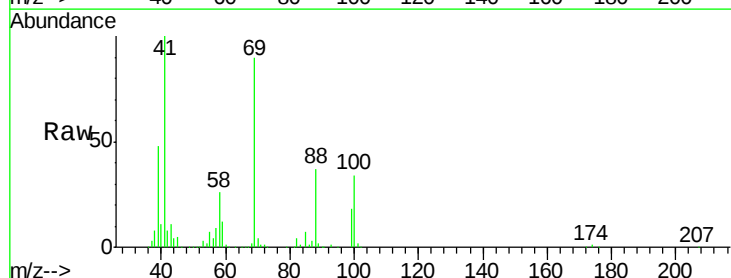
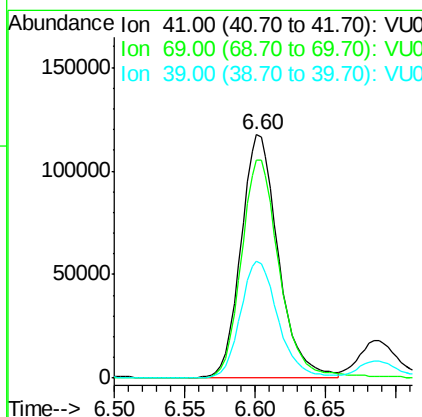
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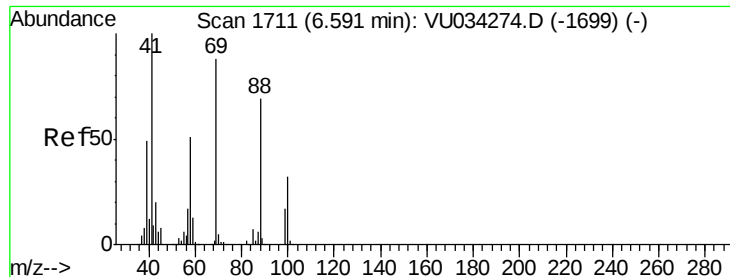
MMDadoda
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#48
Methyl methacrylate
Concen: 48.020 ug/l
RT: 6.60 min Scan# 1714
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	41	Resp	216635
Ion Ratio	100	Lower	Upper
41	100		
69	92.5	72.8	109.2
39	48.3	38.6	58.0





#49

1,4-Dioxane

Concen: 1093.836 ug/l

RT: 6.59 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

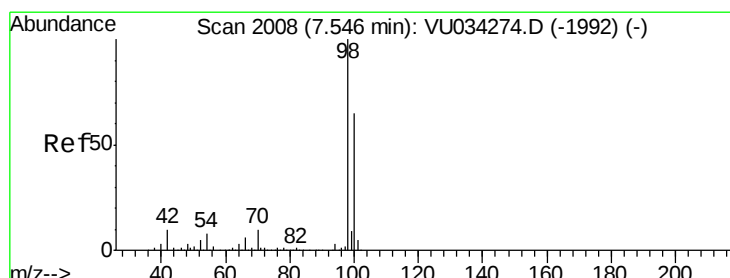
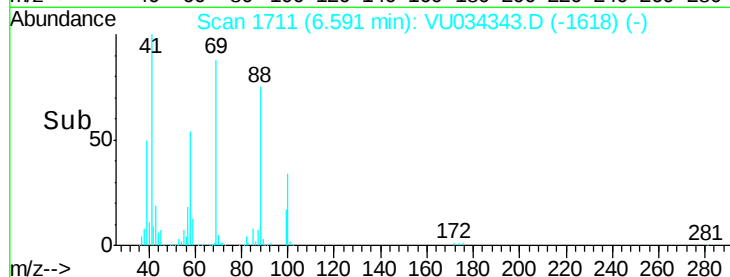
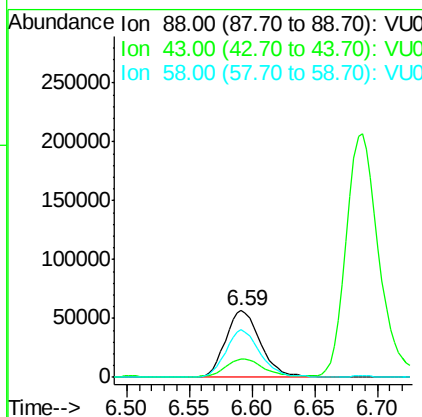
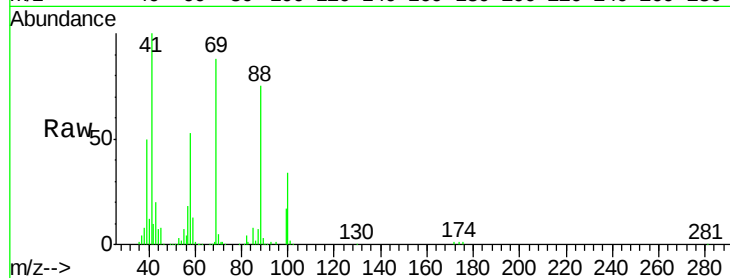
ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:	88	Resp:	107755
Ion Ratio	Lower	Upper	
88	100		
43	27.6	23.8	35.6
58	71.5	58.4	87.6

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#50

Toluene-d8

Concen: 47.350 ug/l

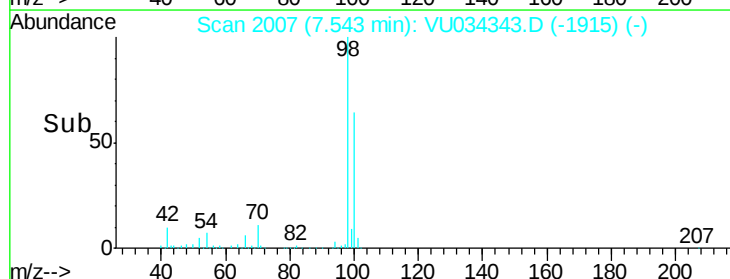
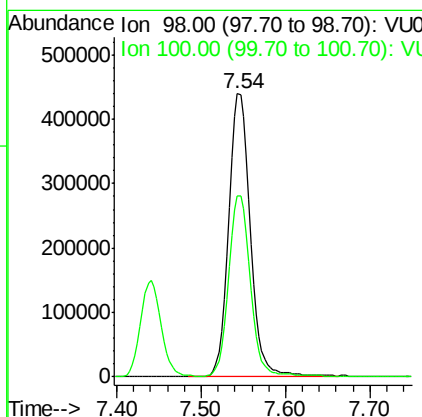
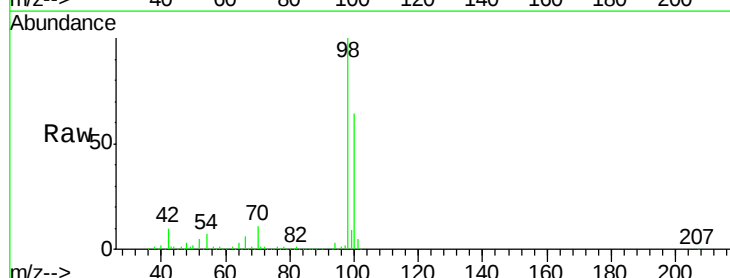
RT: 7.54 min Scan# 2007

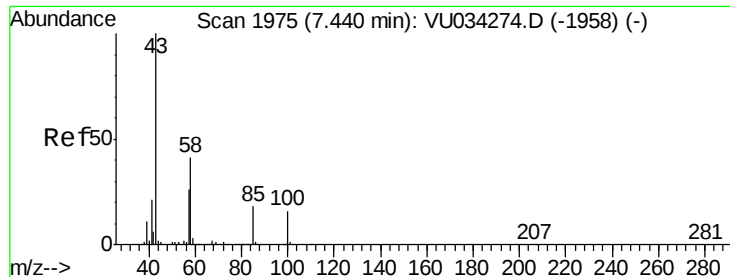
Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion:	98	Resp:	786030
Ion Ratio	Lower	Upper	
98	100		
100	64.5	51.7	77.5





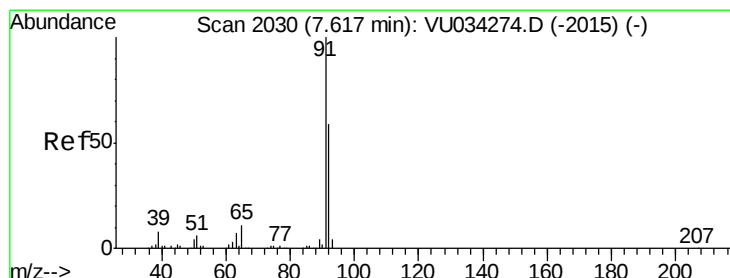
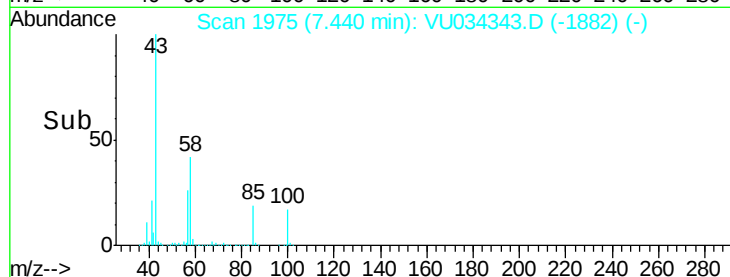
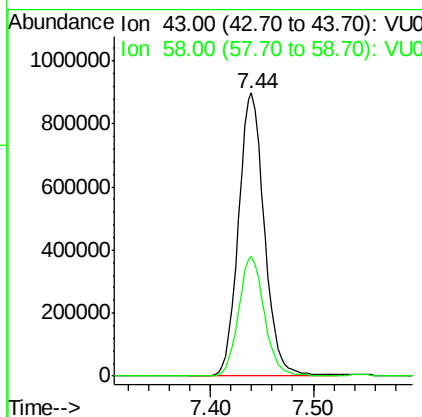
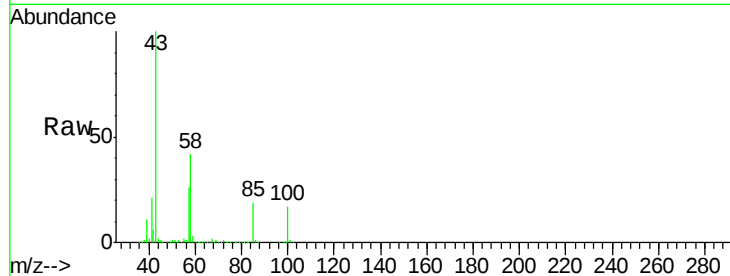
#51
 4-Methyl-2-Pentanone
 Concen: 237.975 ug/l
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleID :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 43 Resp: 1564624
 Ion Ratio Lower Upper
 43 100
 58 42.1 33.0 49.4

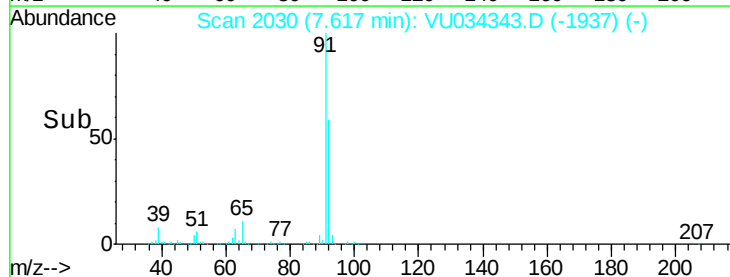
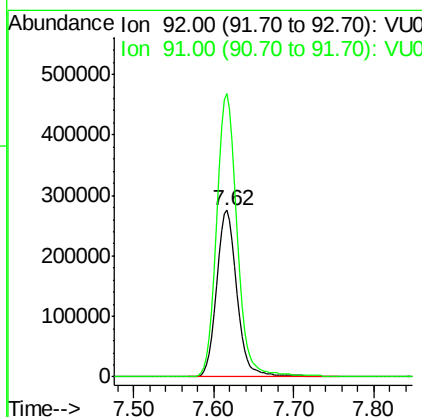
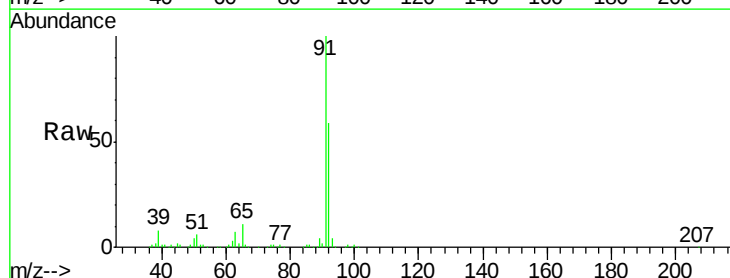
Manual Integrations
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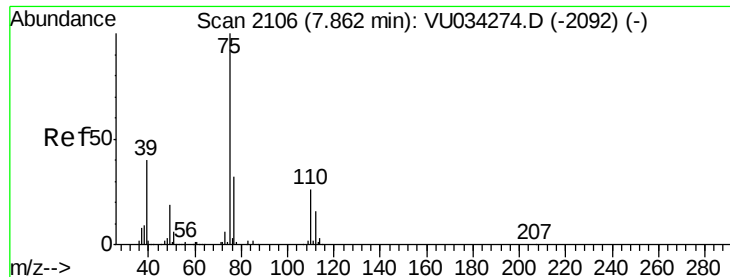
MMDadoda
 9/10/2019 1:30:24 PM



#52
 Toluene
 Concen: 47.165 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion: 92 Resp: 491646
 Ion Ratio Lower Upper
 92 100
 91 171.2 136.6 205.0





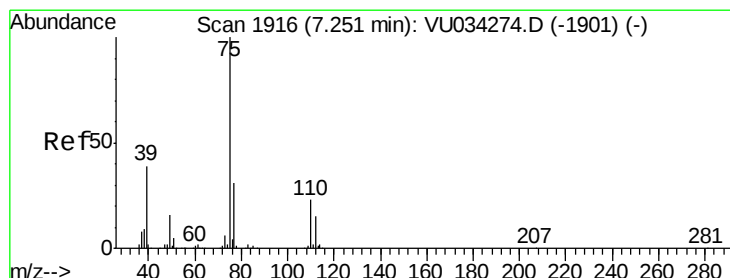
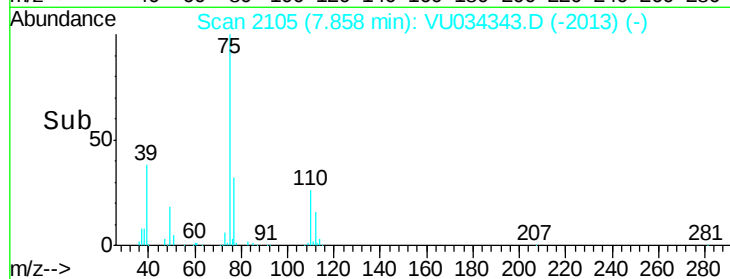
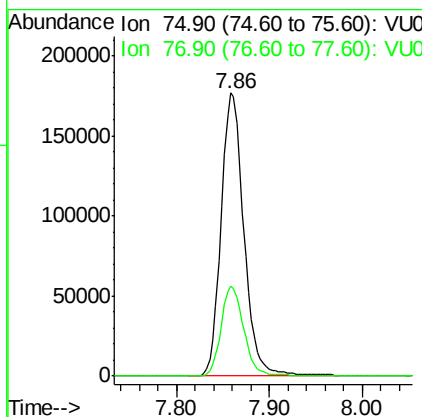
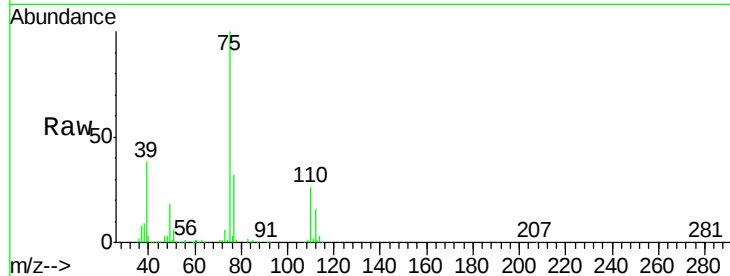
#53
 t-1,3-Dichloropropene
 Concen: 46.573 ug/l
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5

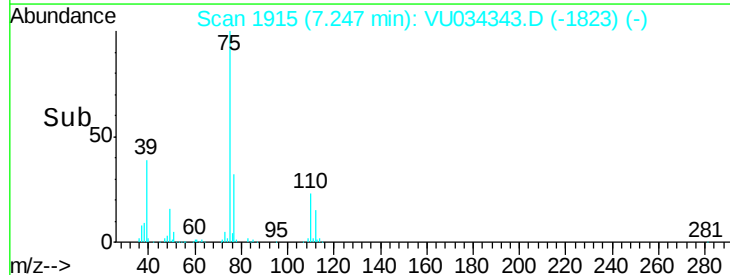
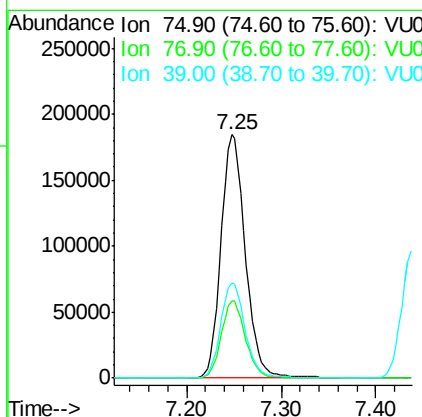
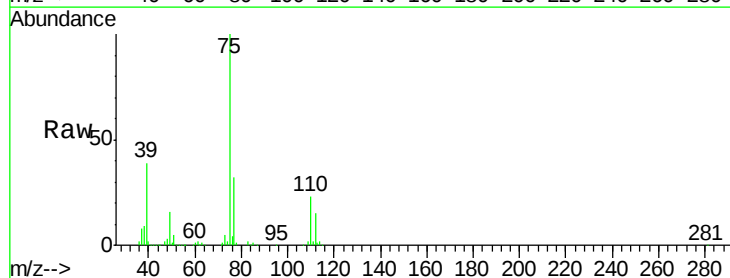
Manual Integrations
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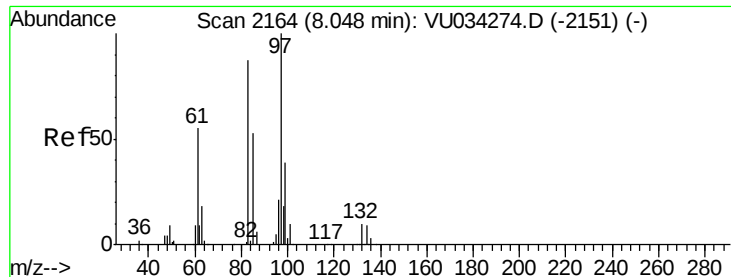
MMDadoda
 9/10/2019 1:30:24 PM



#54
 cis-1,3-Dichloropropene
 Concen: 46.247 ug/l
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.1	37.7
39	39.2	31.2	46.8





#55

1,1,2-Trichloroethane

Concen: 45.717 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

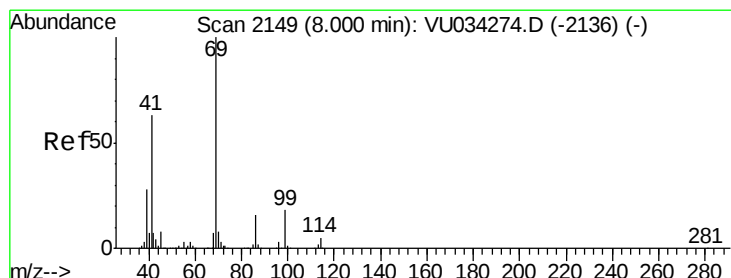
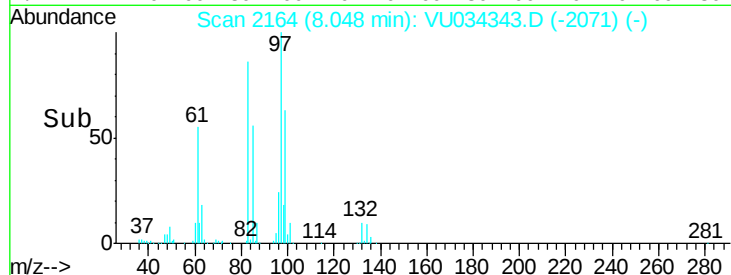
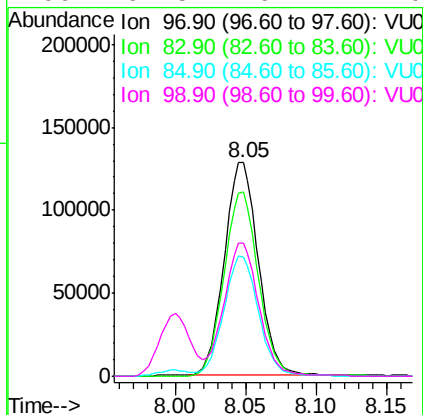
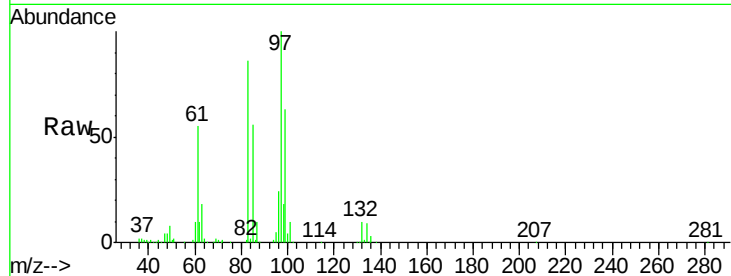
ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		216391		
83	86.2	69.0	103.6		
85	55.8	44.2	66.2		
99	62.5	49.4	74.0		

Manual Integrations
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9/10/2019 1:30:24 PM



#56

Ethyl methacrylate

Concen: 45.968 ug/l

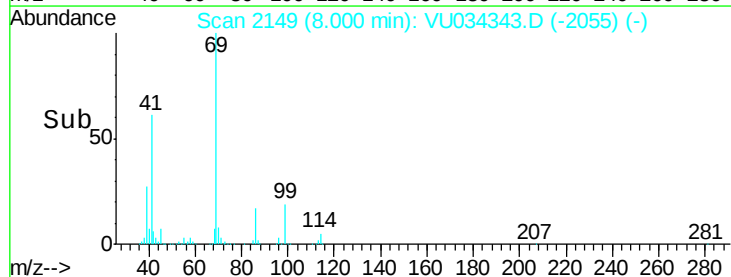
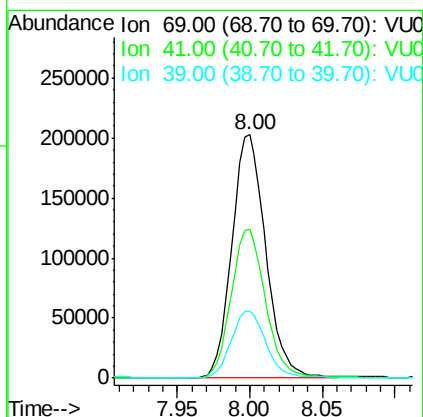
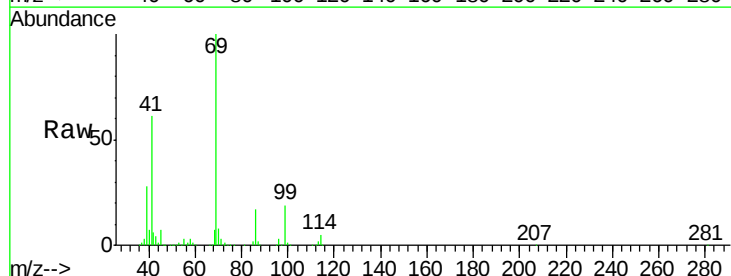
RT: 8.00 min Scan# 2149

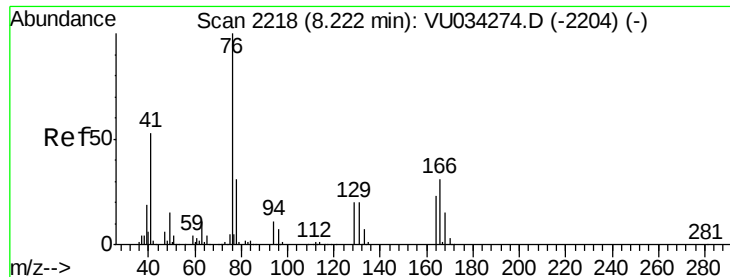
Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		328668		
41	61.9	49.5	74.3		
39	28.1	22.5	33.7		





#57

1,3-Dichloropropane

Concen: 46.162 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 76 Resp: 355794

Ion Ratio Lower Upper

76 100

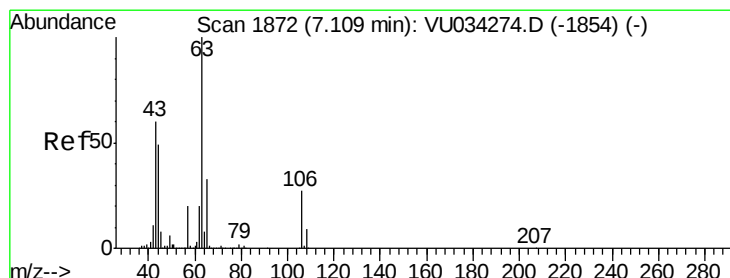
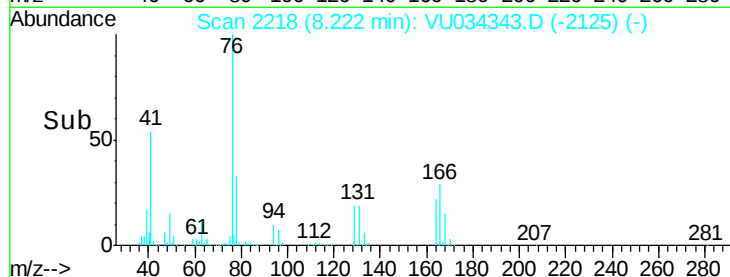
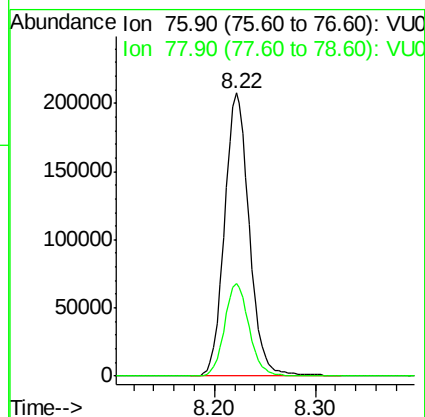
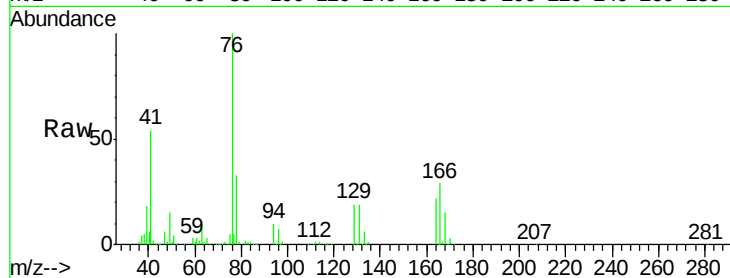
78 32.5 25.4 38.2

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#58

2-Chloroethyl Vinyl ether

Concen: 16.983 ug/l

RT: 7.08 min Scan# 1864

Delta R.T. -0.03 min

Lab File: VU034343.D

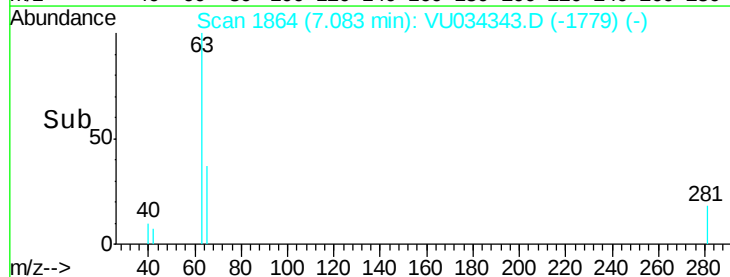
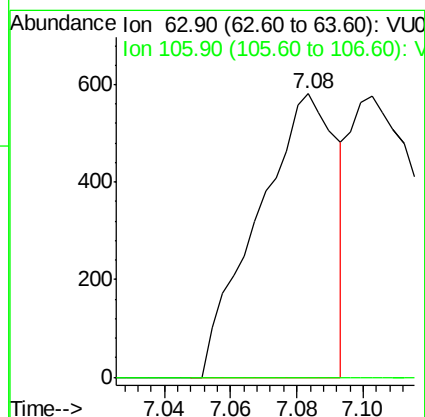
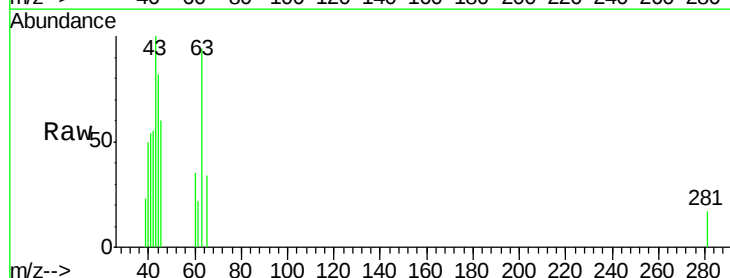
Acq: 06 Sep 2019 20:03

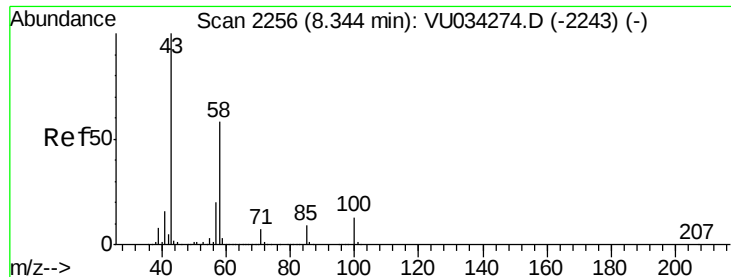
Tgt Ion: 63 Resp: 958

Ion Ratio Lower Upper

63 100

106 0.0 21.6 32.4#





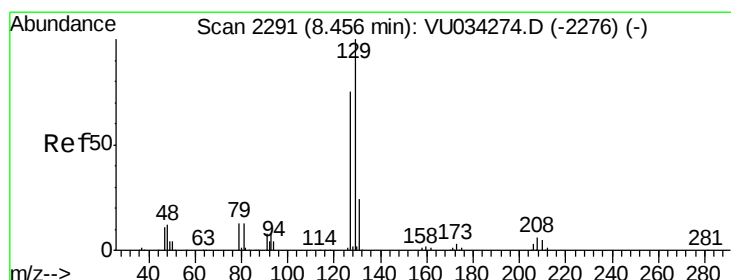
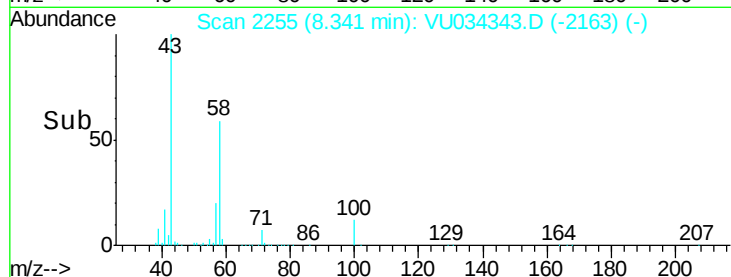
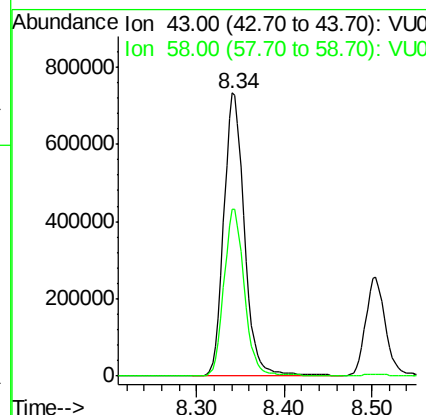
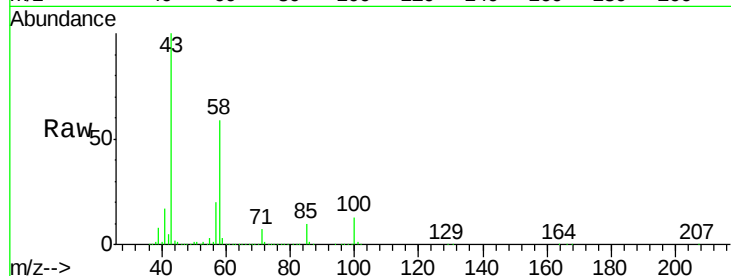
#59
2-Hexanone
Concen: 243.902 ug/l
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 43 Resp: 1197969
Ion Ratio Lower Upper
43 100
58 58.6 28.8 86.5

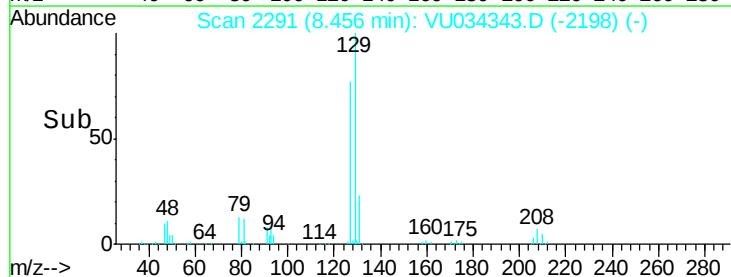
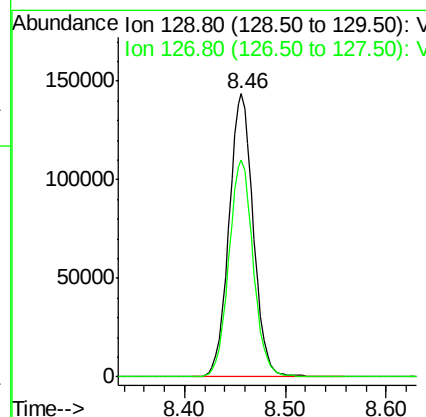
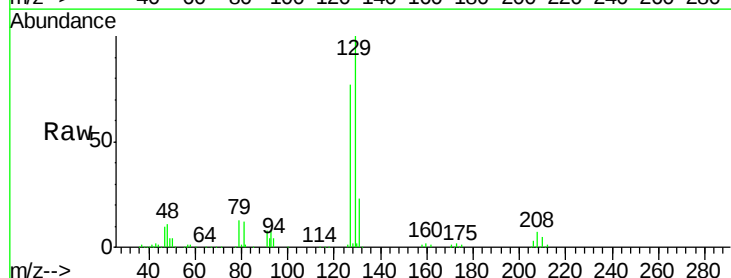
Manual Integrations
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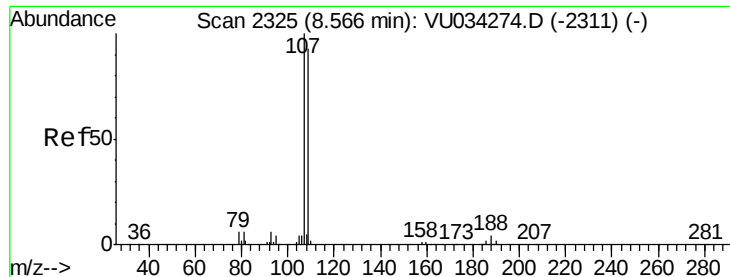
MMDadoda
9/10/2019 1:30:24 PM



#60
Dibromochloromethane
Concen: 47.577 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 129 Resp: 241545
Ion Ratio Lower Upper
129 100
127 76.7 37.9 113.7





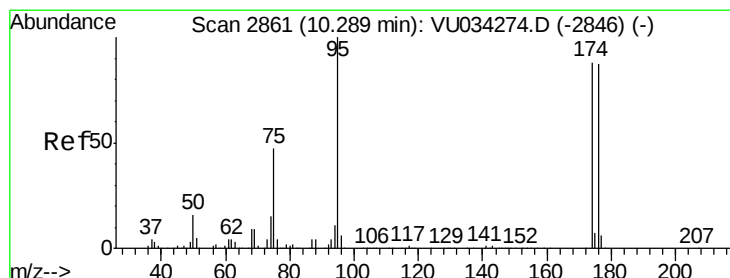
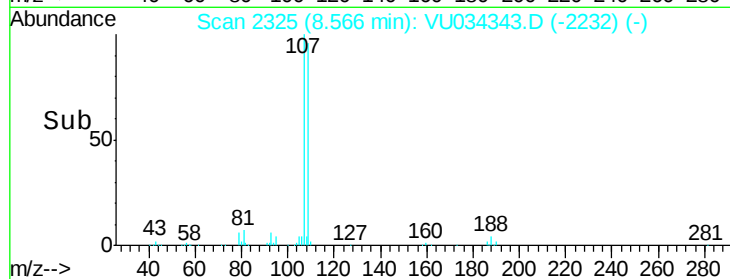
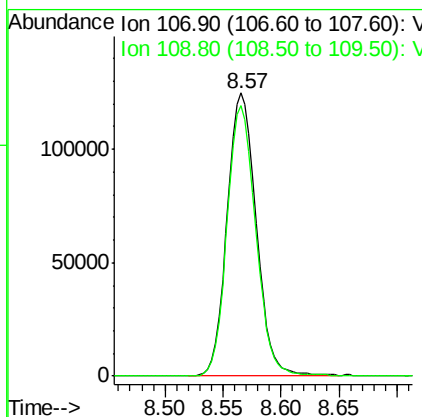
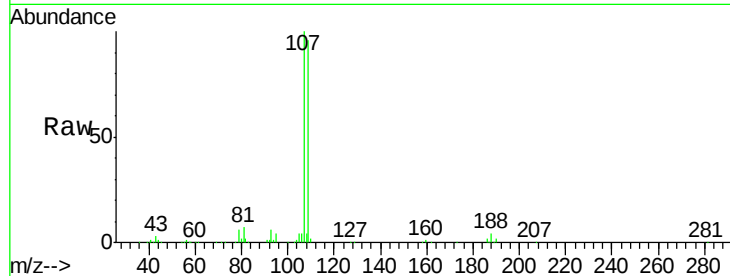
#61
 1,2-Dibromoethane
 Concen: 46.923 ug/l
 RT: 8.57 min Scan# 2325
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
107	100	217385		
109	94.2	75.0	112.6	

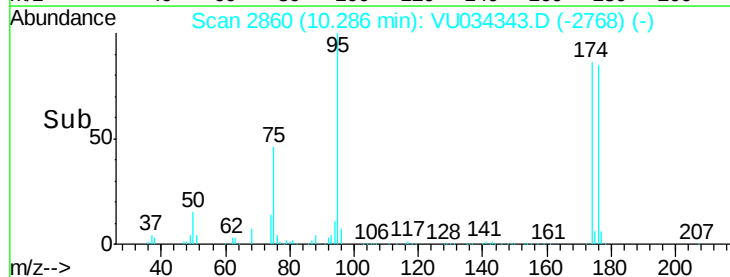
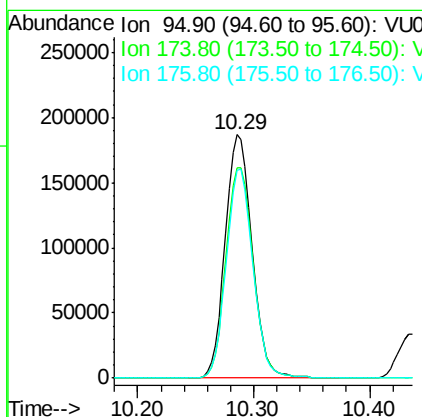
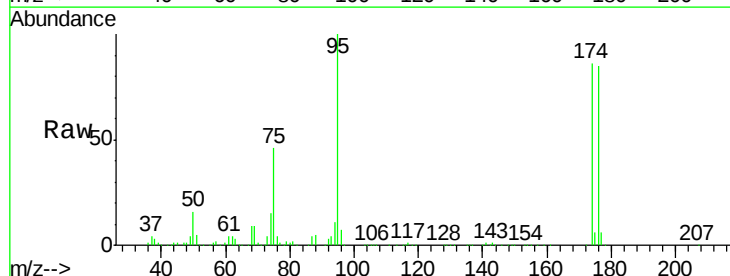
Manual Integrations
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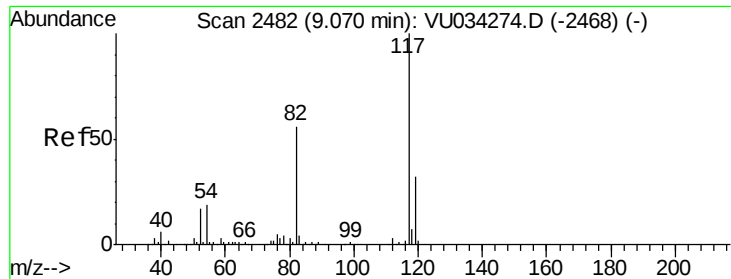
MMDadoda
 9/10/2019 1:30:24 PM



#62
 4-Bromofluorobenzene
 Concen: 46.522 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	298176		
174	88.3	0.0	175.2	
176	85.5	0.0	168.0	





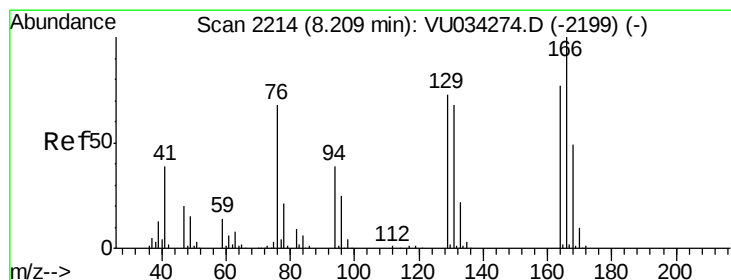
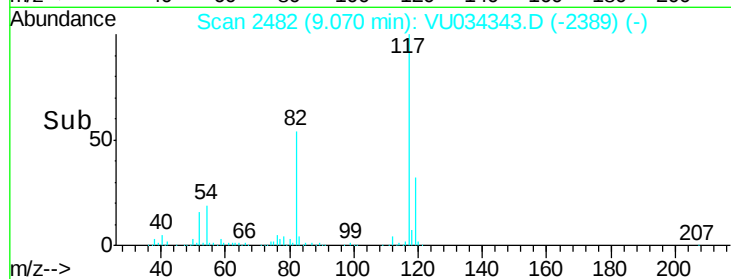
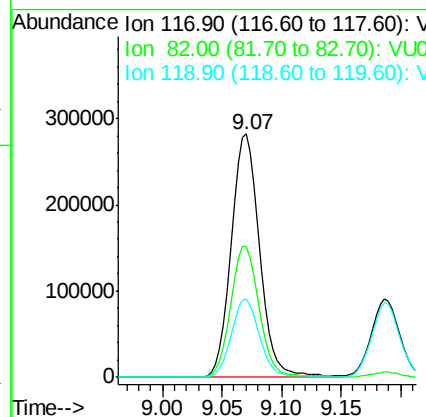
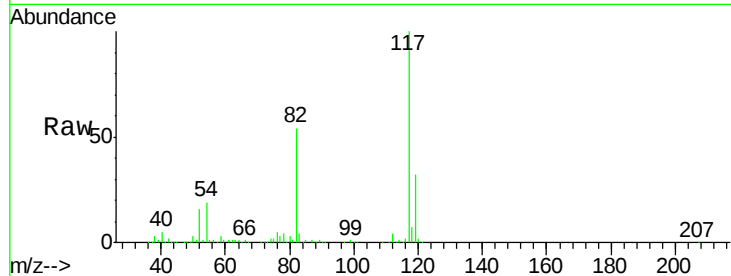
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
117	100	467754		
82	53.6		44.6	67.0
119	32.1		25.9	38.9

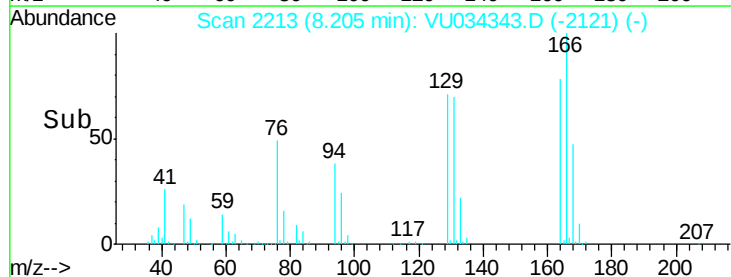
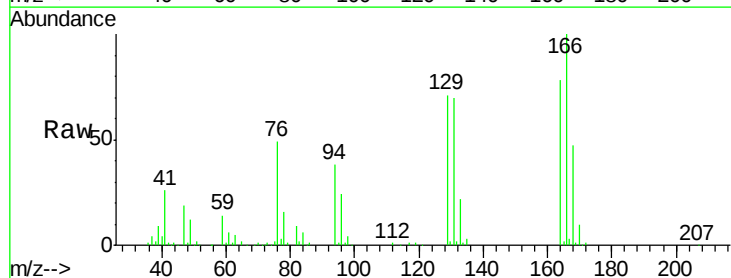
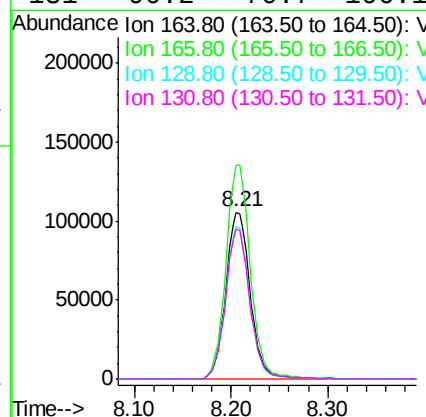
Manual Integrations
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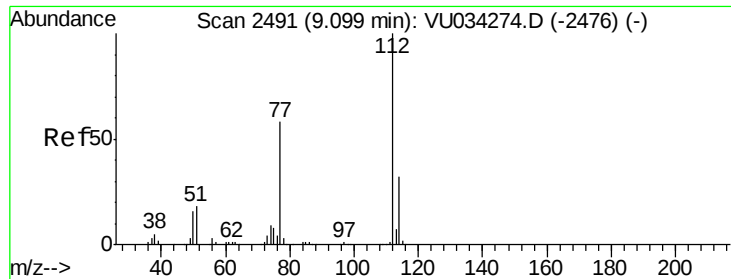
MMDadoda
9/10/2019 1:30:24 PM



#64
Tetrachloroethene
Concen: 45.732 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	185581		
166	128.2		103.7	155.5
129	91.5		75.8	113.8
131	90.2		70.7	106.1





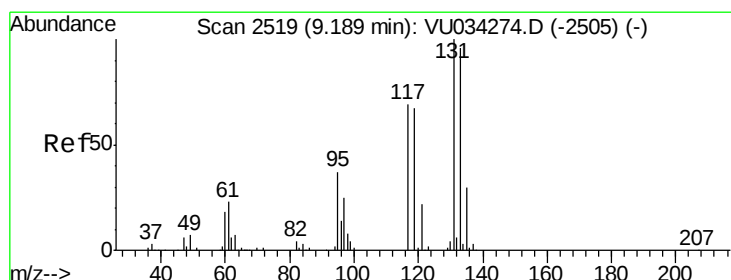
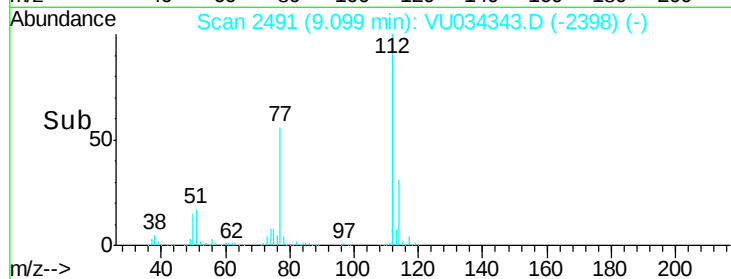
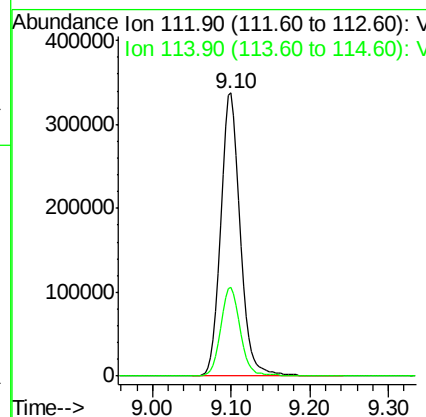
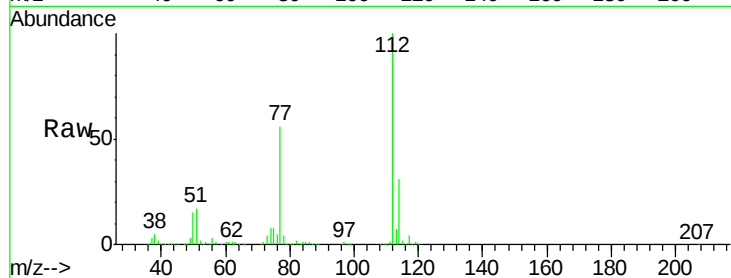
#65
Chlorobenzene
Concen: 48.506 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.9	38.9

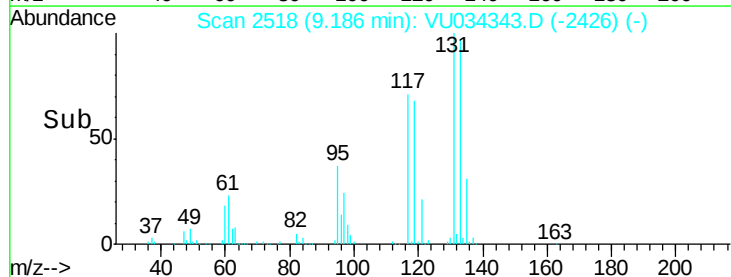
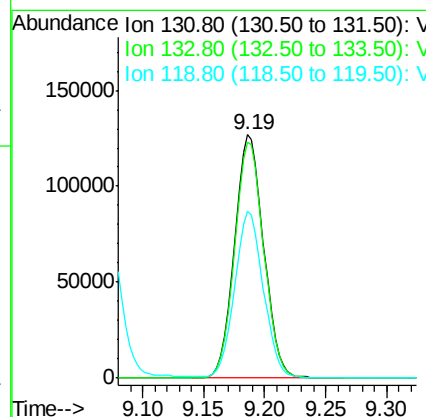
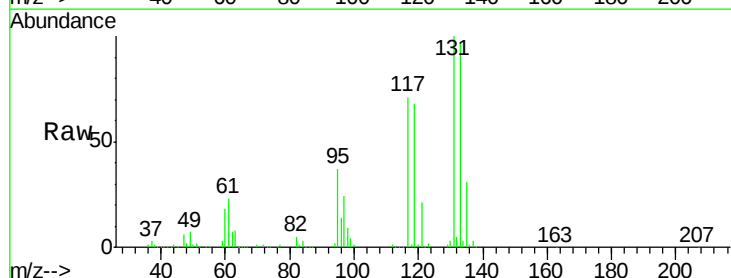
Manual Integrations
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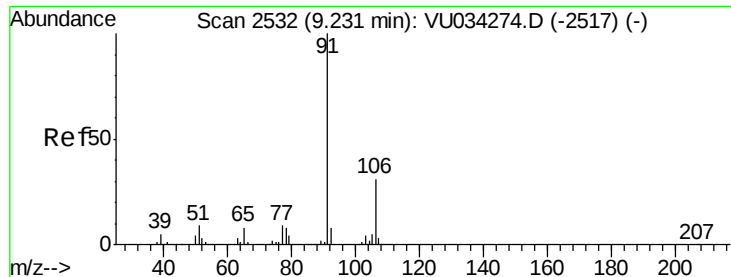
MMDadoda
9/10/2019 1:30:24 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 46.555 ug/l
RT: 9.19 min Scan# 2518
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.0	47.9	143.7
119	68.0	33.1	99.5





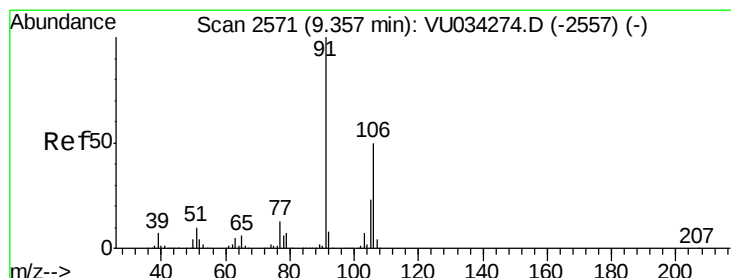
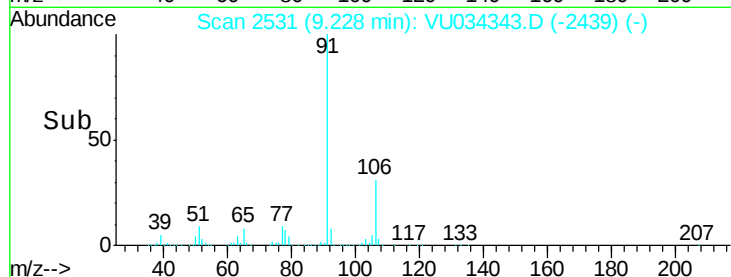
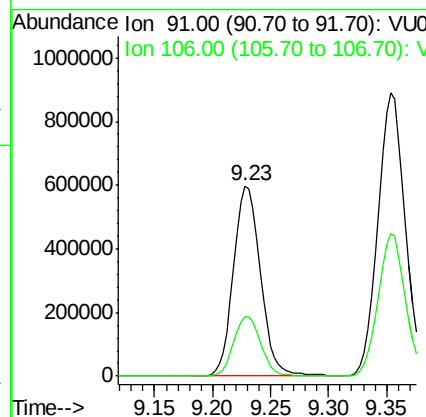
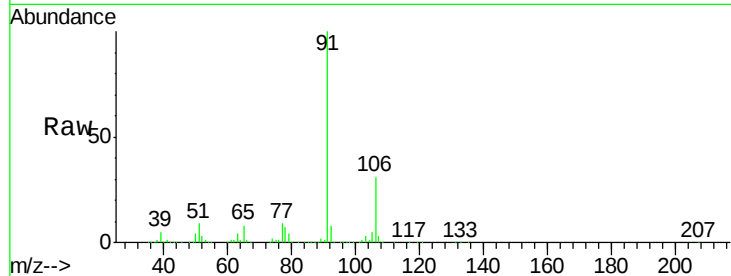
#67
Ethyl Benzene
Concen: 49.955 ug/l
RT: 9.23 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 91 Resp: 969308
Ion Ratio Lower Upper
91 100
106 31.2 24.8 37.2

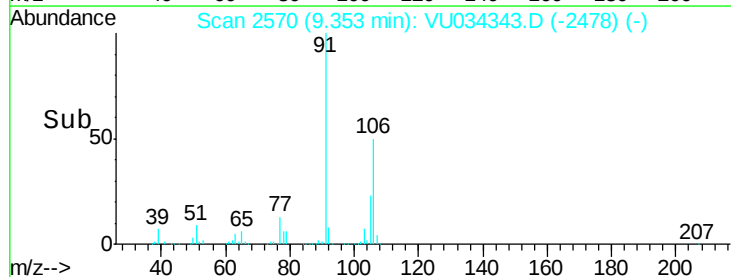
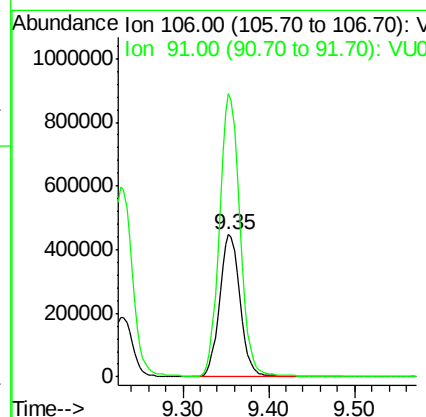
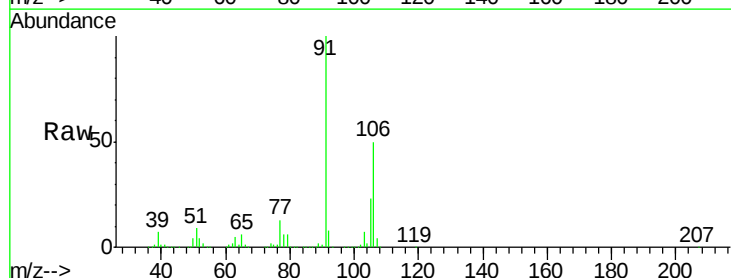
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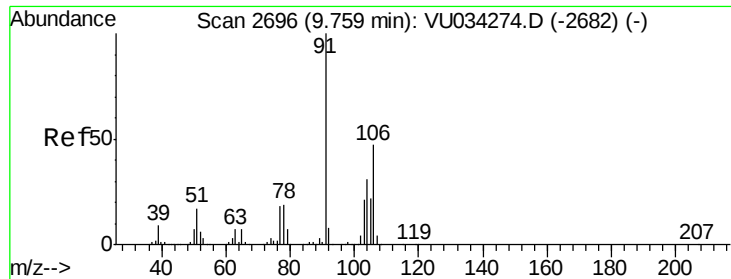
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#68
m/p-Xylenes
Concen: 102.043 ug/l
RT: 9.35 min Scan# 2570
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion: 106 Resp: 745584
Ion Ratio Lower Upper
106 100
91 199.2 160.1 240.1





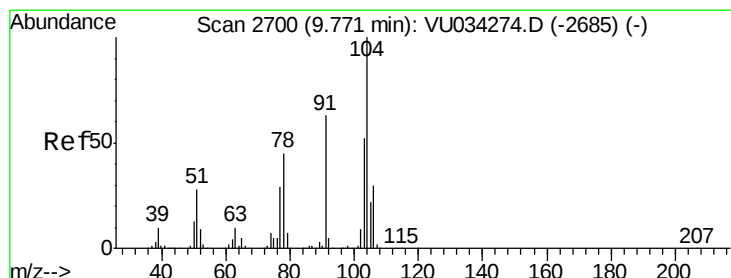
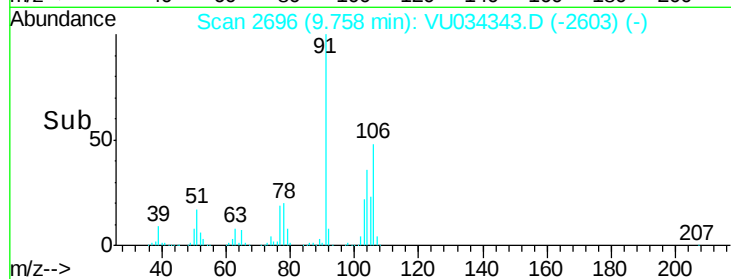
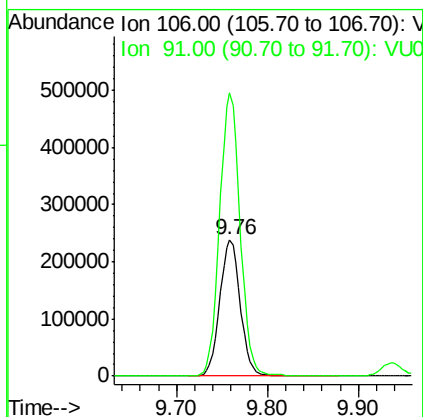
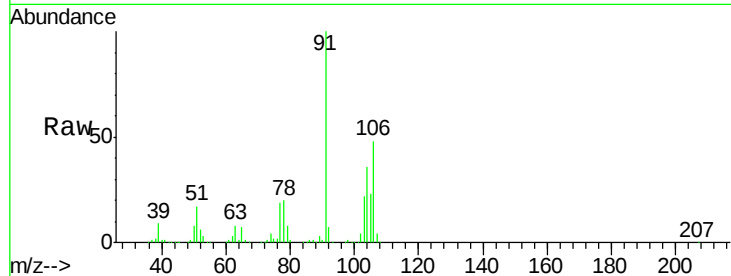
#69
o-Xylene
Concen: 52.240 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
106	100		
91	208.3	105.1	315.3

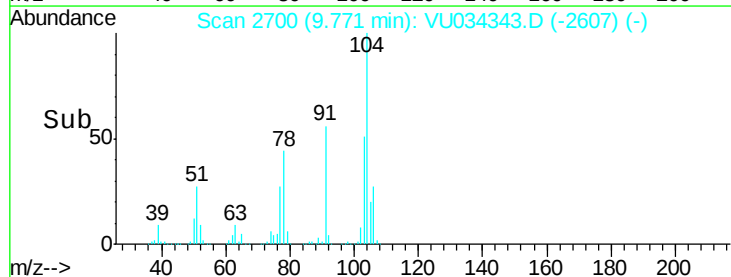
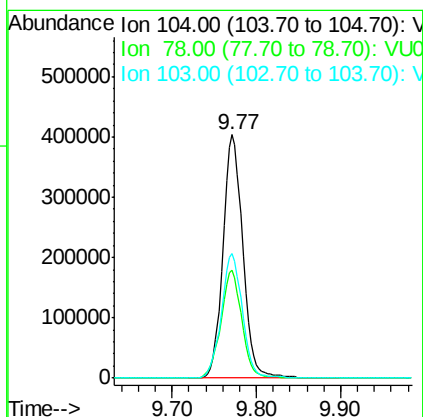
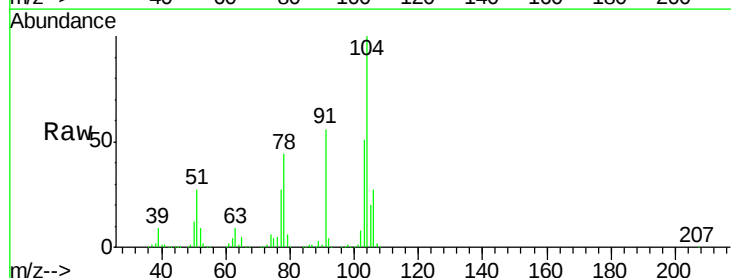
Manual Integrations
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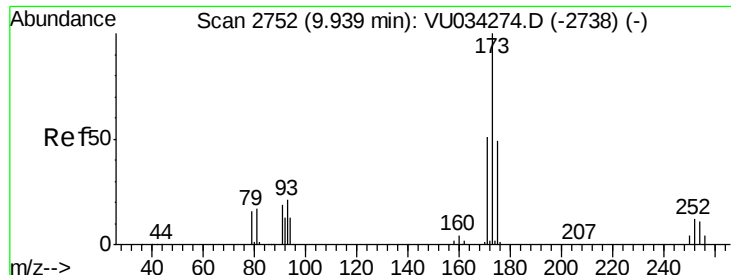
MMDadoda
9/10/2019 1:30:24 PM



#70
Styrene
Concen: 52.778 ug/l
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.9	38.6	57.8
103	54.3	44.2	66.4





#71

Bromoform

Concen: 47.509 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

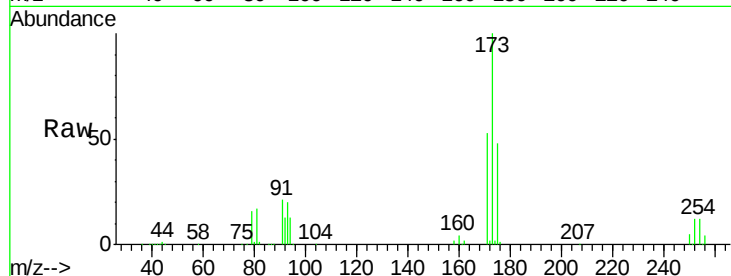
ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100				
175	48.9	24.4	73.2		
254	0.1	0.0	0.0#		

Manual Integrations
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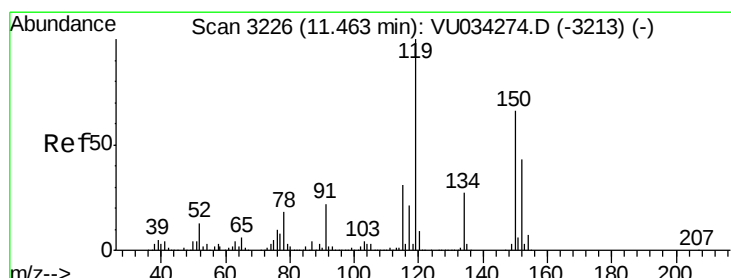
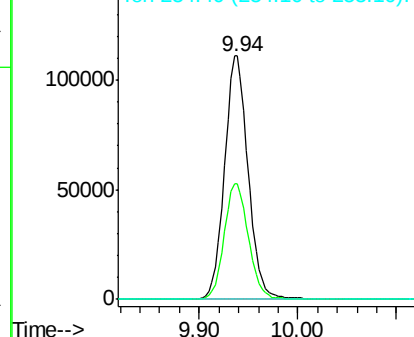
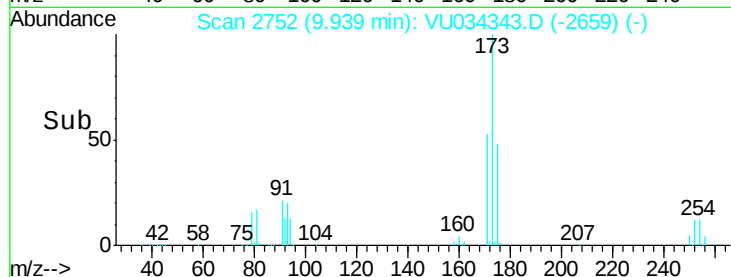


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

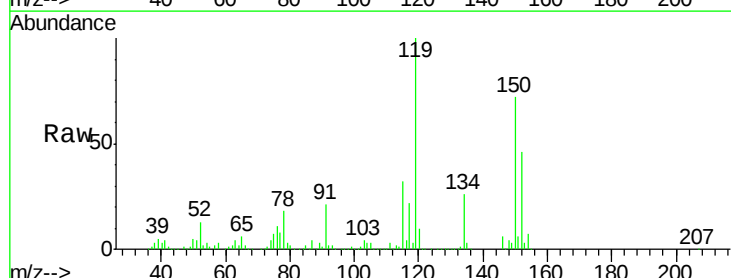
RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100				
115	77.2	39.1	117.3		
150	172.8	0.0	345.4		

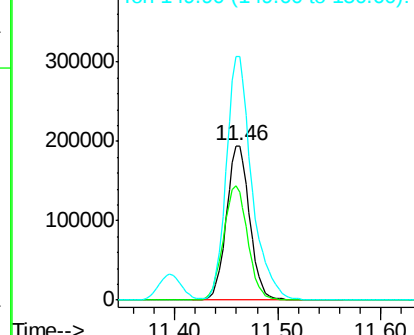
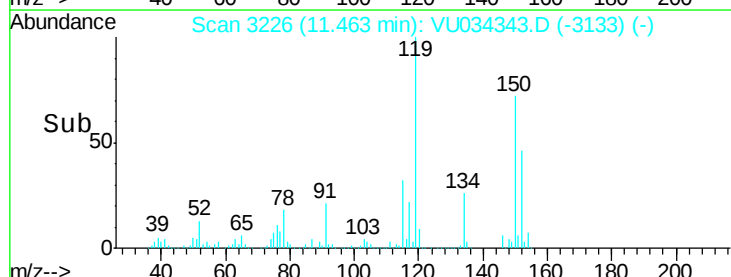


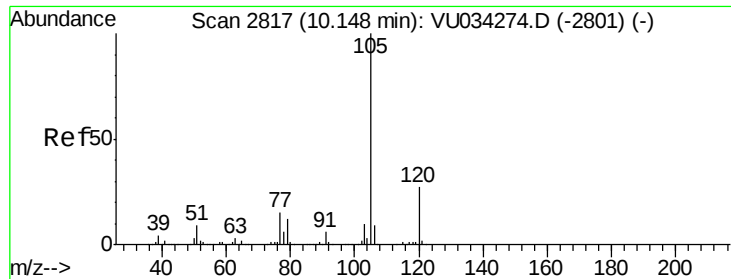
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 50.482 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 105 Resp: 998965

Ion Ratio Lower Upper

105 100

120 26.5

13.4

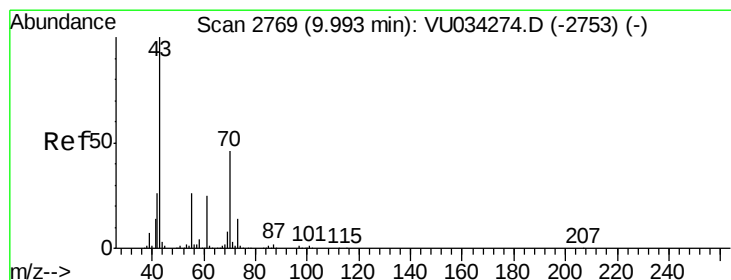
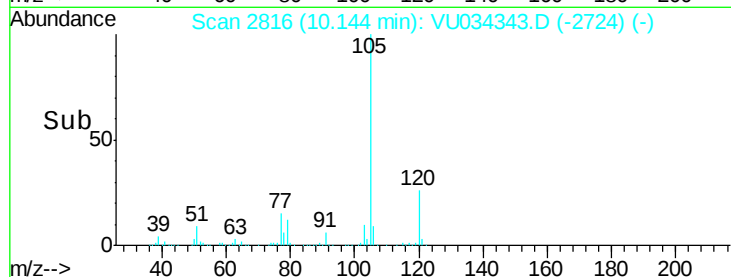
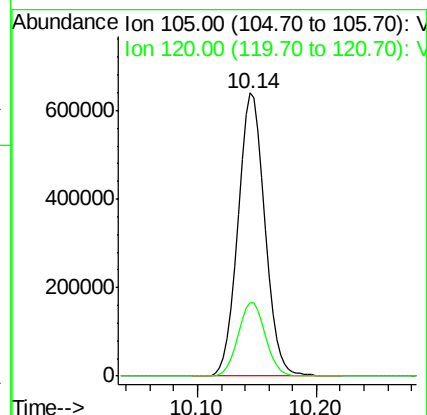
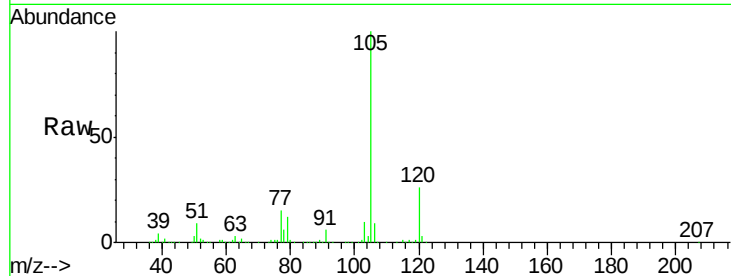
40.2

Manual Integrations

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#74

N-ethyl acetate

Concen: 51.060 ug/l

RT: 9.99 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion: 43 Resp: 406712

Ion Ratio Lower Upper

43 100

70 45.4

36.4

54.6

55 25.6

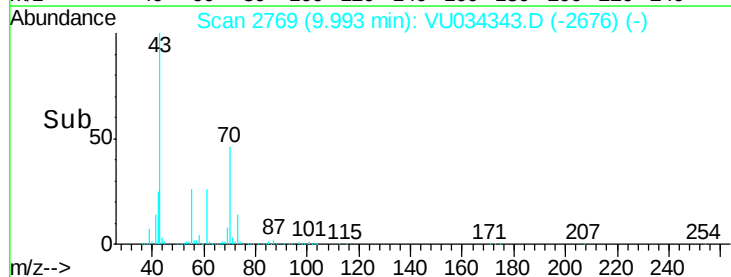
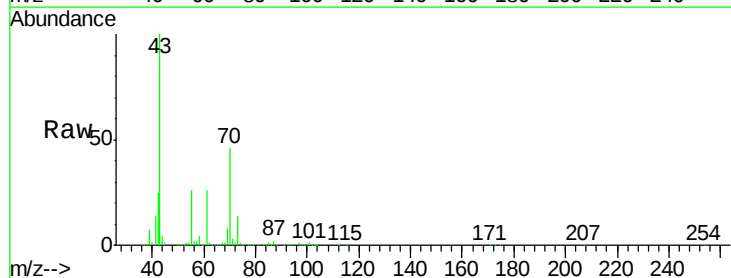
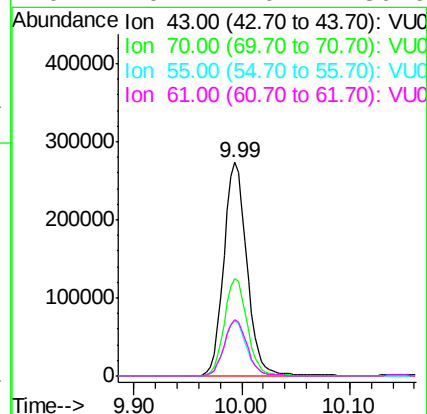
21.2

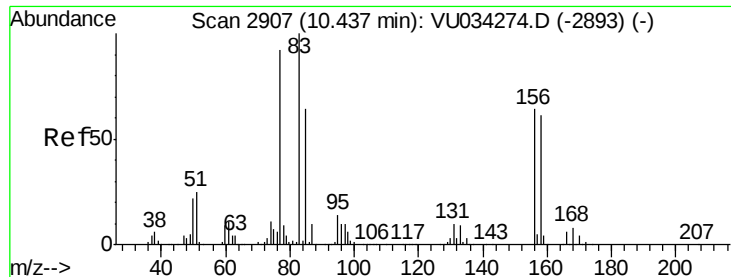
31.8

61 26.4

20.4

30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 46.577 ug/l

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 83 Resp: 373072

Ion Ratio Lower Upper

83 100

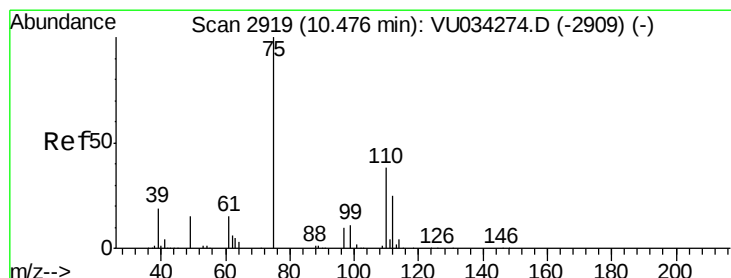
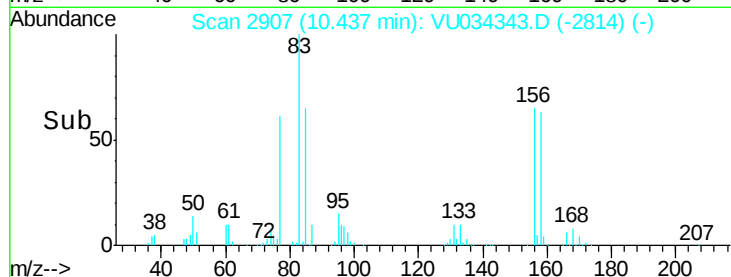
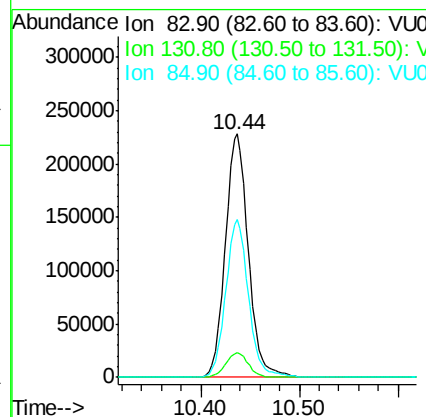
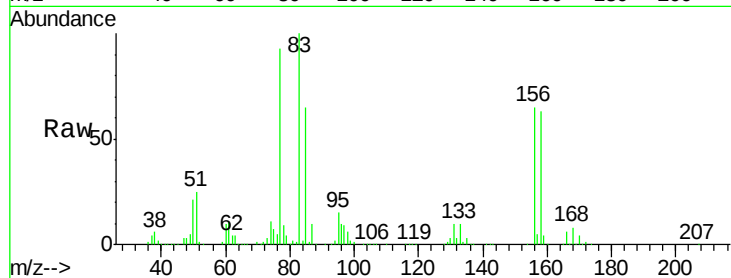
131 10.1 5.1 15.2

85 64.5 32.0 96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 46.756 ug/l m

RT: 10.47 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VU034343.D

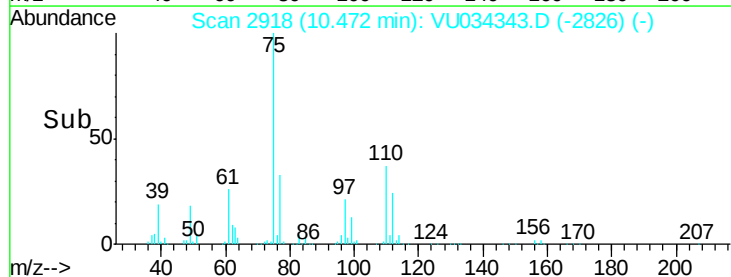
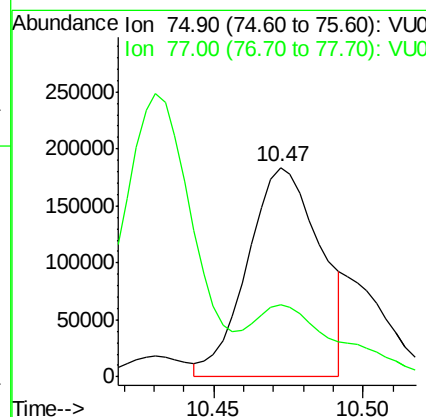
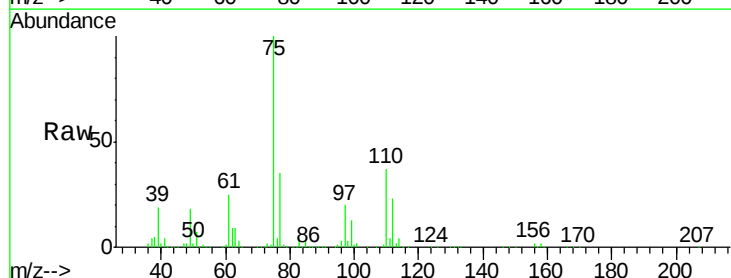
Acq: 06 Sep 2019 20:03

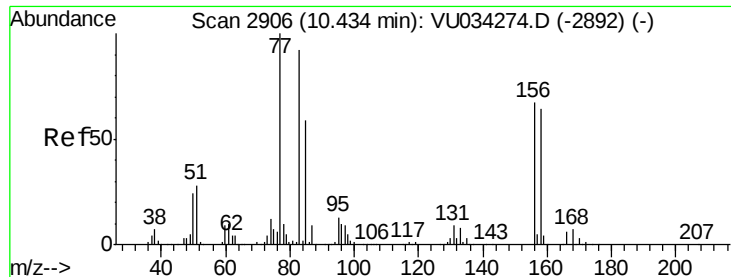
Tgt Ion: 75 Resp: 310338

Ion Ratio Lower Upper

75 100

77 40.5 20.8 62.2





#77

Bromobenzene

Concen: 49.581 ug/l

RT: 10.43 min Scan# 2905

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

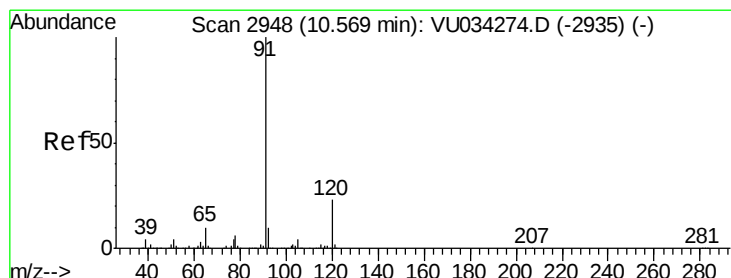
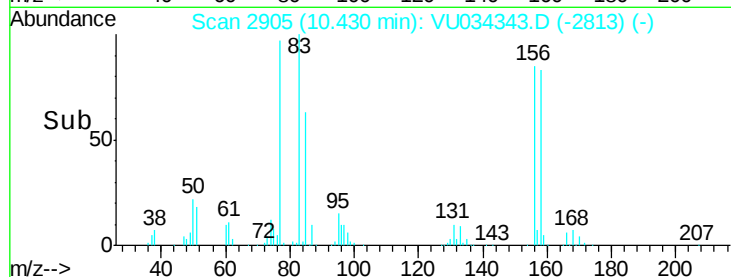
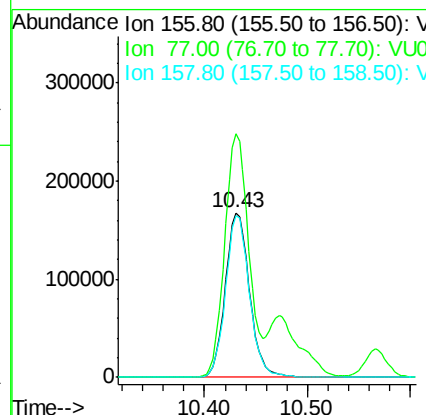
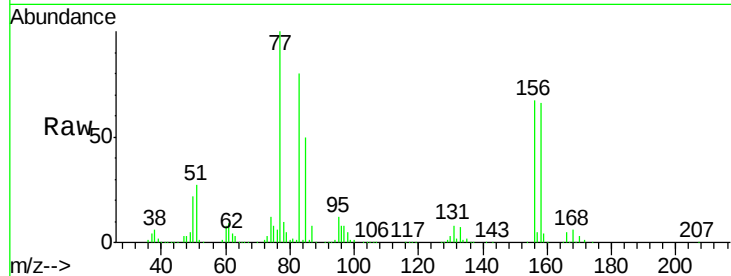
ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:	156	Resp:	274337
Ion Ratio	Lower	Upper	
156	100		
77	146.2	75.6	226.9
158	97.0	48.2	144.6

Manual Integrations
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#78

n-propylbenzene

Concen: 50.280 ug/l

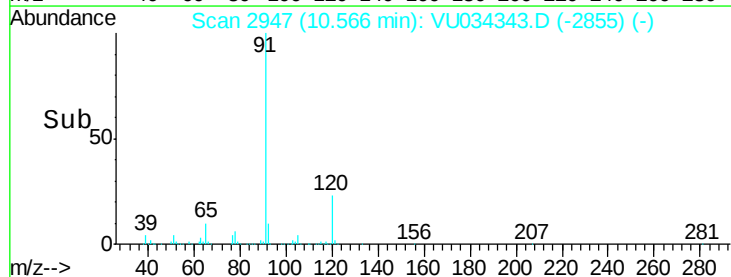
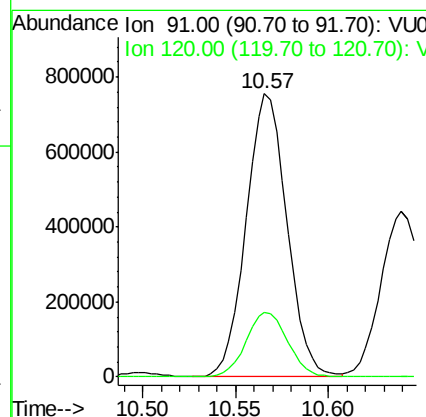
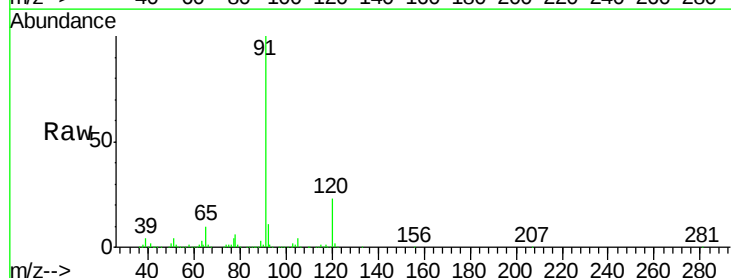
RT: 10.57 min Scan# 2947

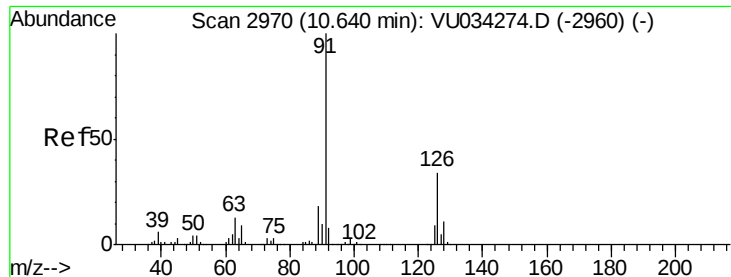
Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Tgt Ion:	91	Resp:	1149076
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.7	35.0





#79

2-Chlorotoluene

Concen: 49.578 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion: 91 Resp: 691330

Ion Ratio Lower Upper

91 100

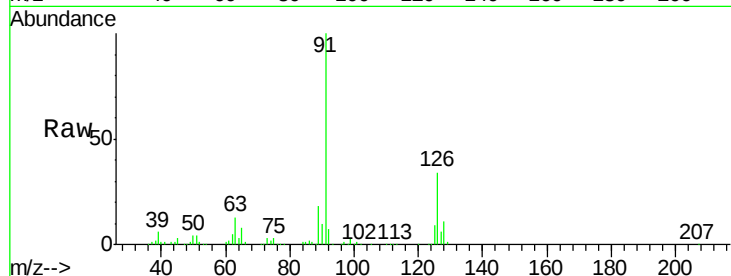
126 34.5 17.3 51.9

Manual Integrations

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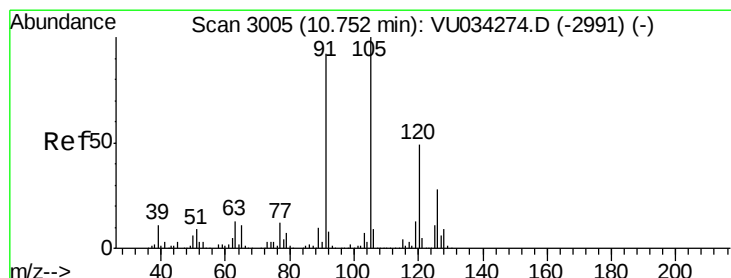
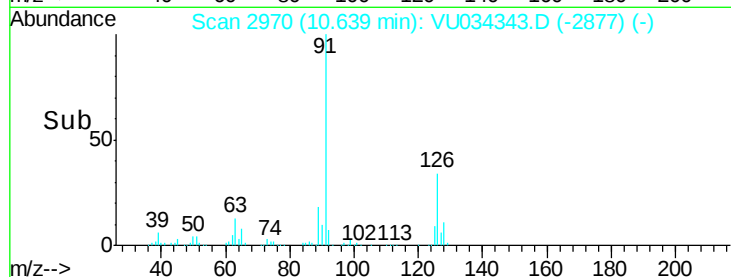
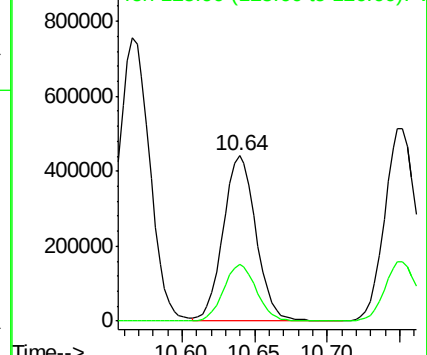
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Abundance Ion 91.00 (90.70 to 91.70): VU

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 51.998 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VU034343.D

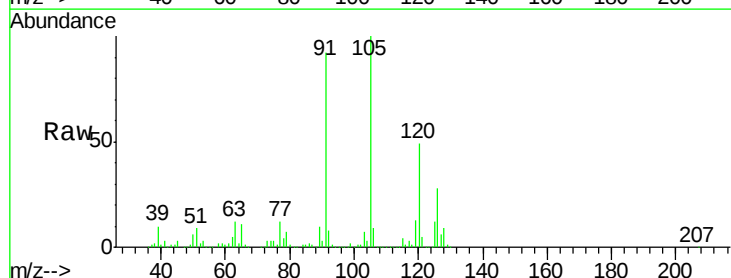
Acq: 06 Sep 2019 20:03

Tgt Ion: 105 Resp: 860562

Ion Ratio Lower Upper

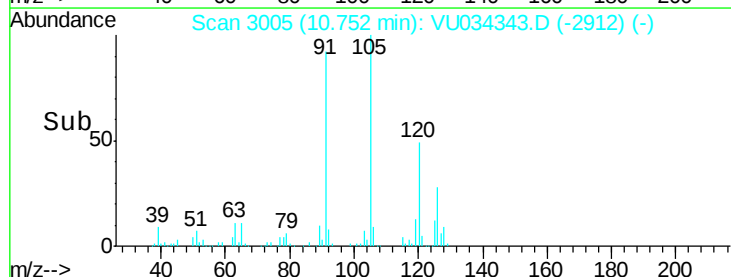
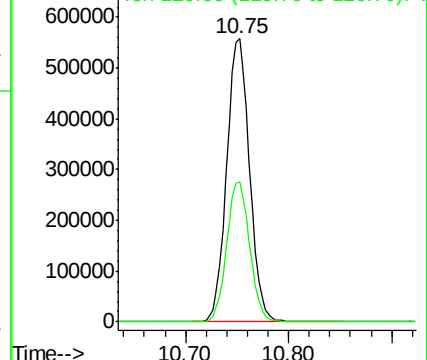
105 100

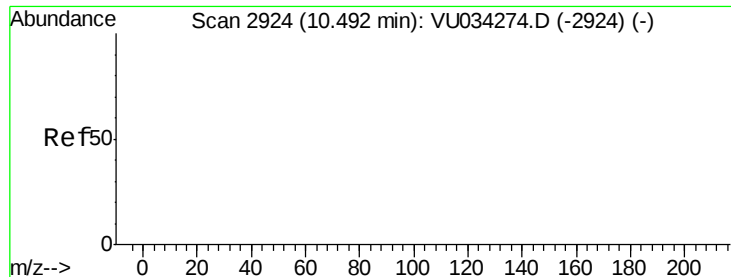
120 49.5 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





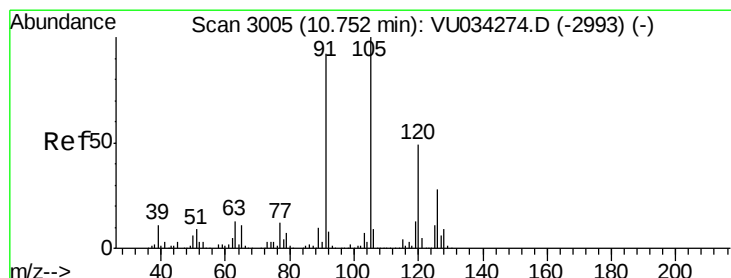
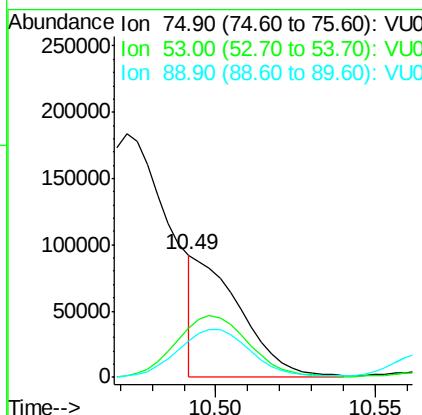
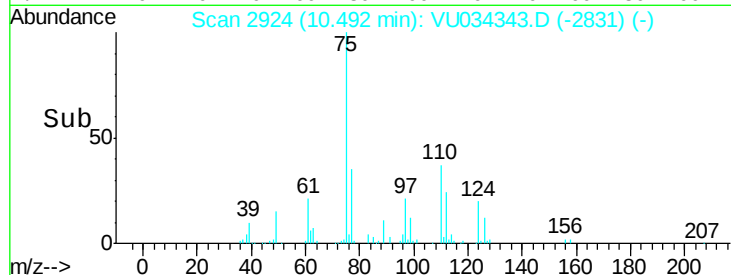
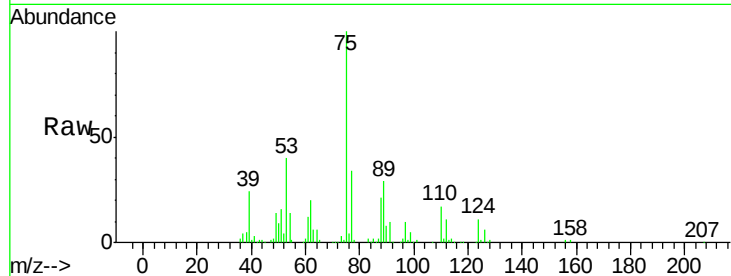
#81
trans-1,4-Dichloro-2-butene
Concen: 46.373 ug/l m
RT: 10.49 min Scan# 2924
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

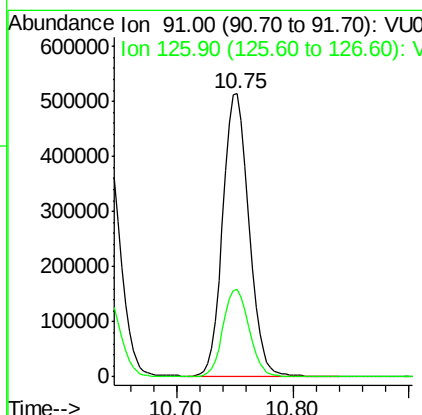
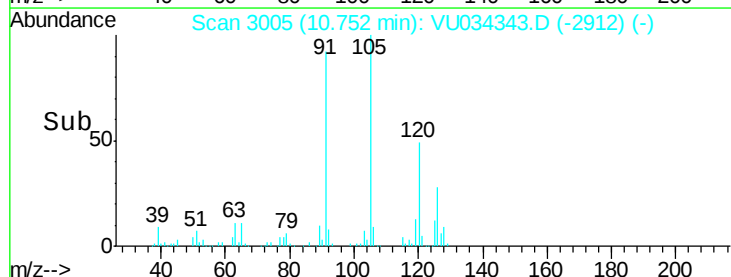
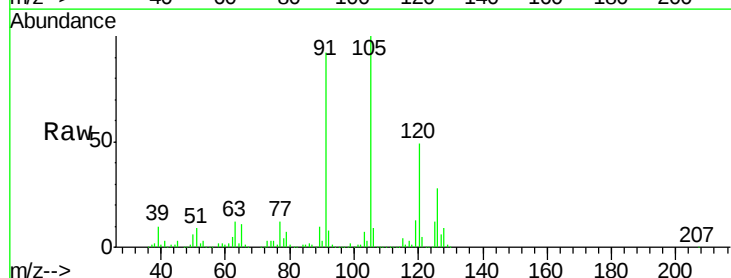
Manual Integrations
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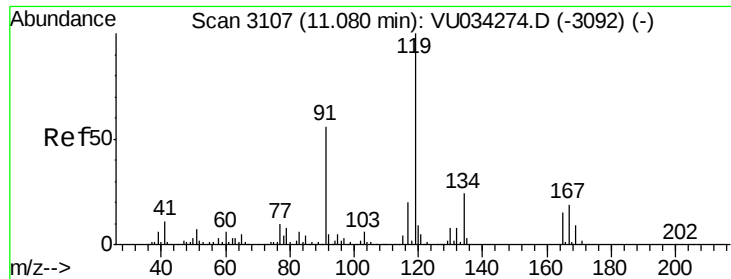
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#82
4-Chlorotoluene
Concen: 49.889 ug/l
RT: 10.75 min Scan# 3005
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.3	45.8





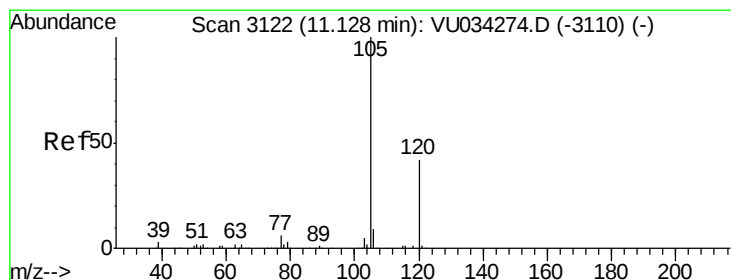
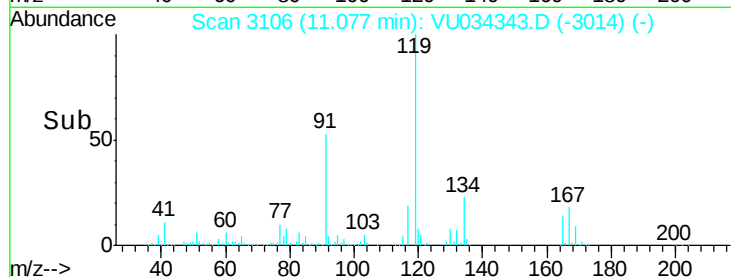
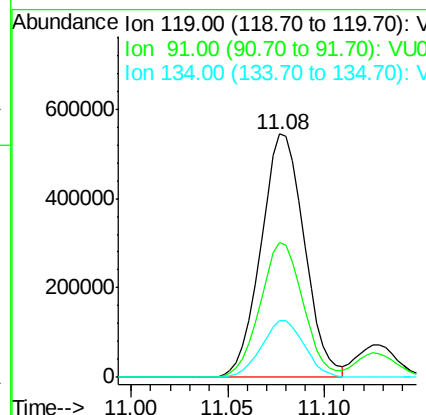
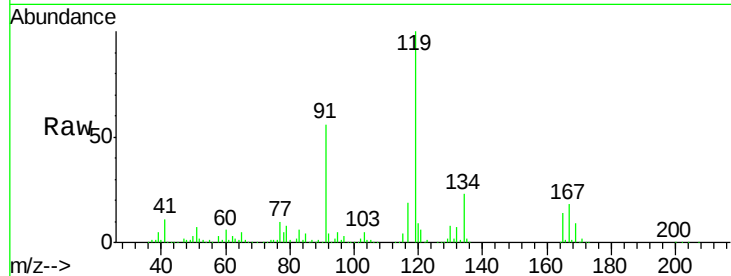
#83
tert-Butylbenzene
Concen: 51.341 ug/l
RT: 11.08 min Scan# 3106
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	850012		
91	54.6	27.8	83.4	
134	23.1	11.7	35.0	

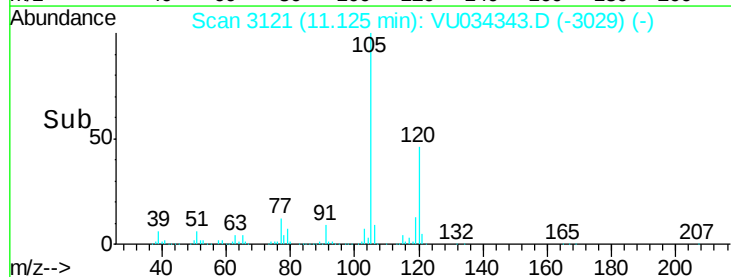
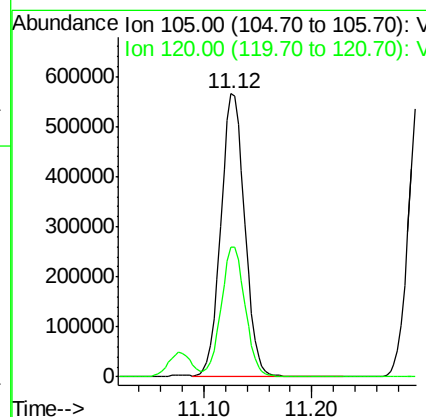
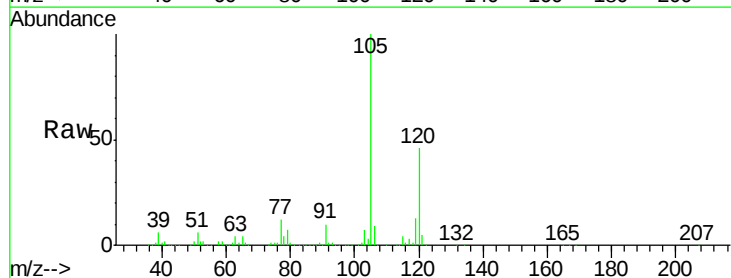
Manual Integrations
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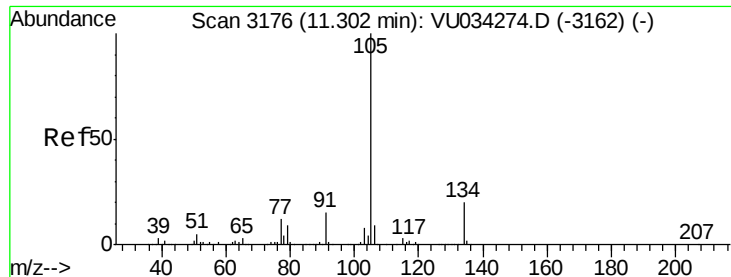
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#84
1,2,4-Trimethylbenzene
Concen: 52.048 ug/l
RT: 11.12 min Scan# 3121
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	867080		
120	46.1	22.9	68.8	





#85

sec-Butylbenzene

Concen: 51.548 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:105 Resp: 1007537

Ion Ratio Lower Upper

105 100

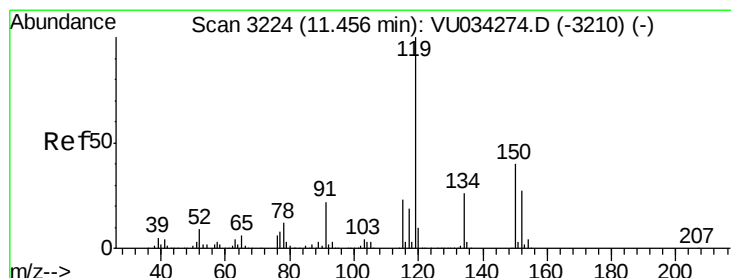
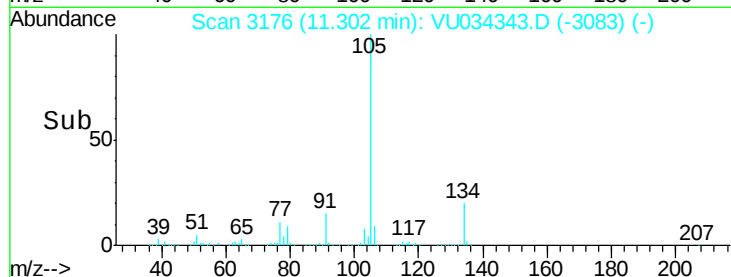
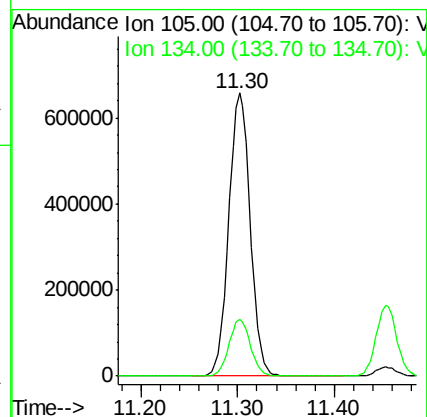
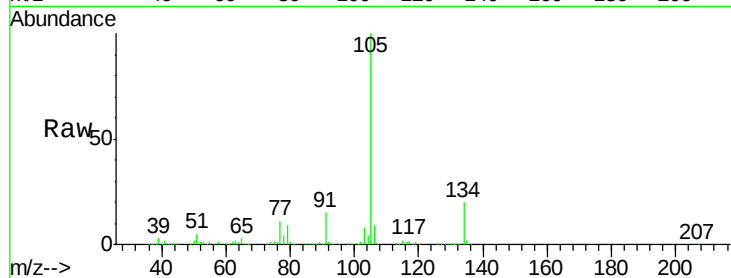
134 20.1 10.1 30.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 51.708 ug/l

RT: 11.45 min Scan# 3223

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

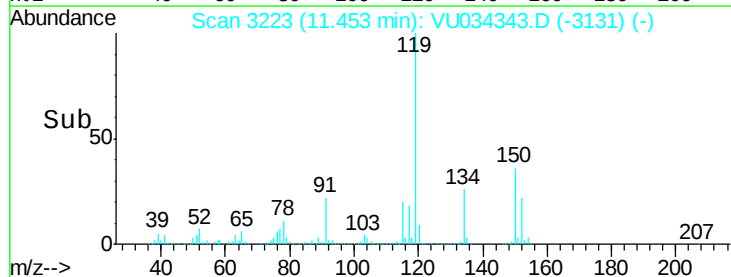
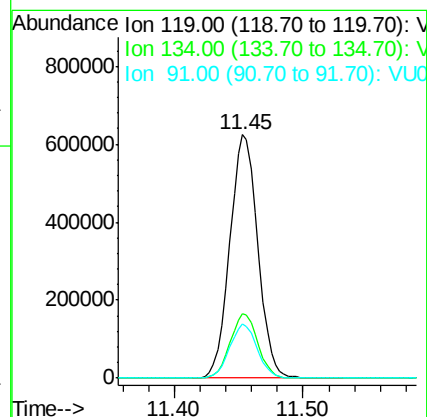
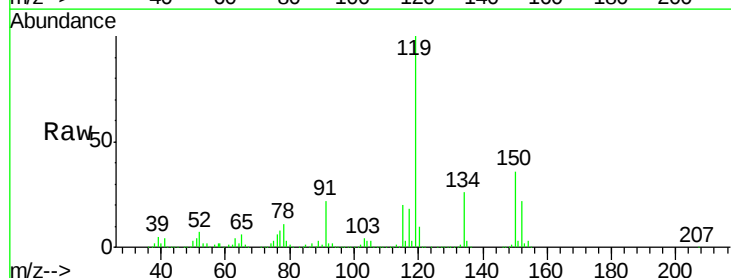
Tgt Ion:119 Resp: 932824

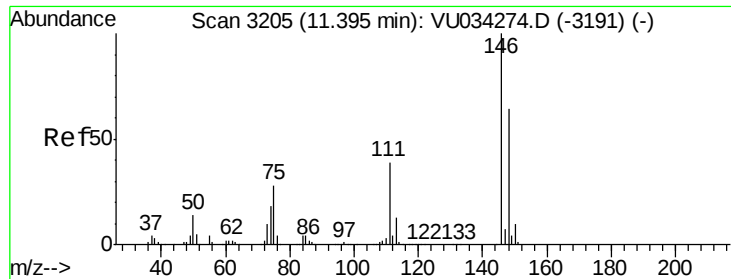
Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.8

91 21.9 11.2 33.6





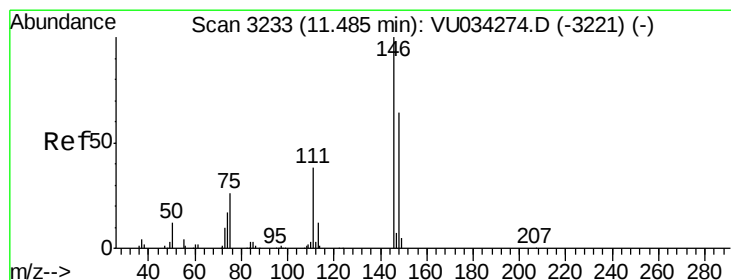
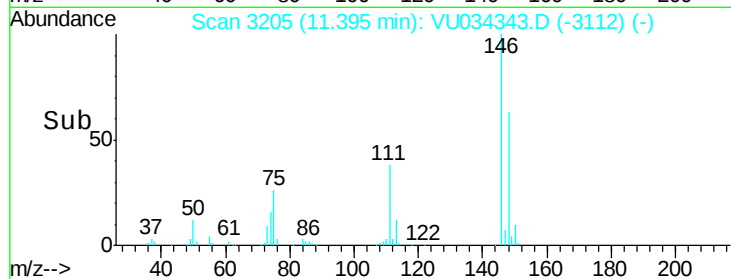
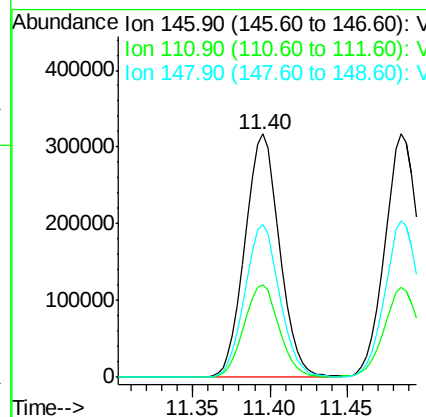
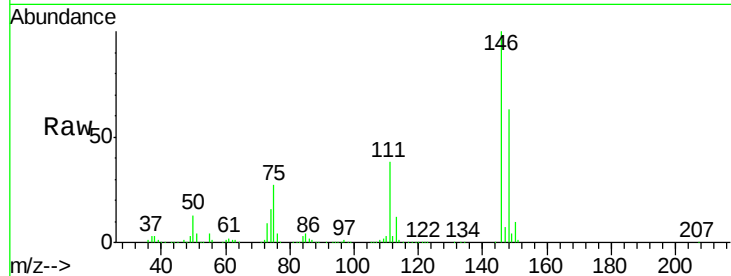
#87
 1,3-Dichlorobenzene
 Concen: 49.135 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampled :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
146	100	496095		
111	38.4	19.5	58.5	
148	63.2	32.1	96.3	

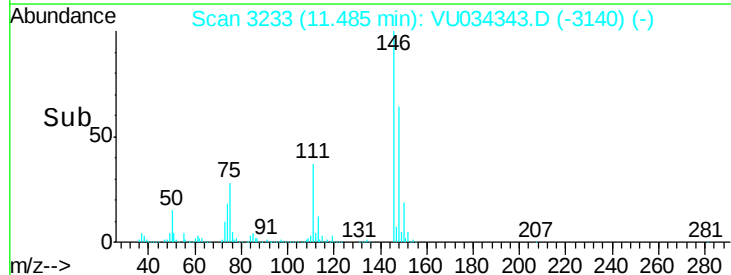
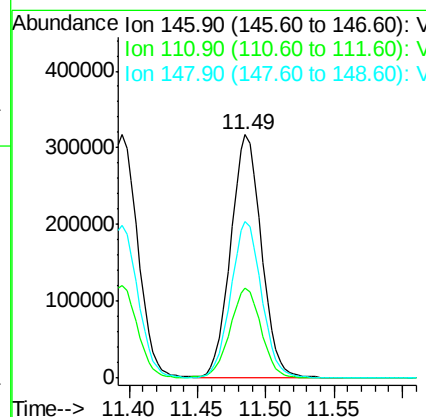
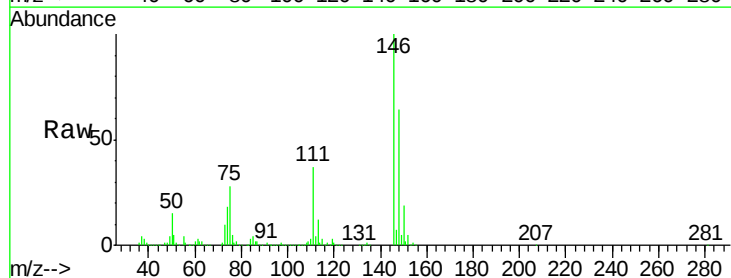
Manual Integrations
 APPROVED

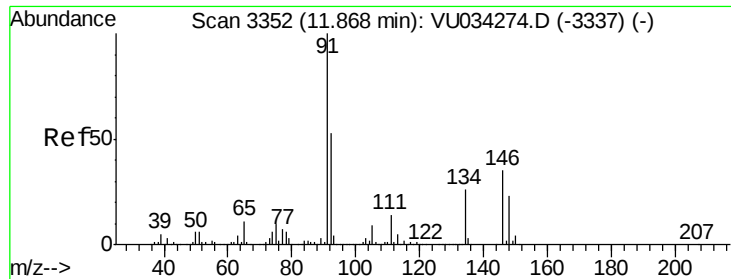
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#88
 1,4-Dichlorobenzene
 Concen: 47.027 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	495243		
111	37.7	19.1	57.3	
148	64.6	32.0	96.0	





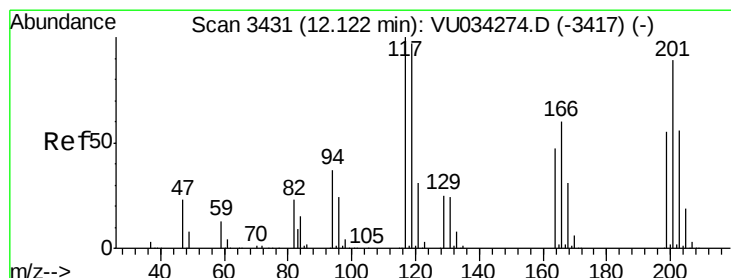
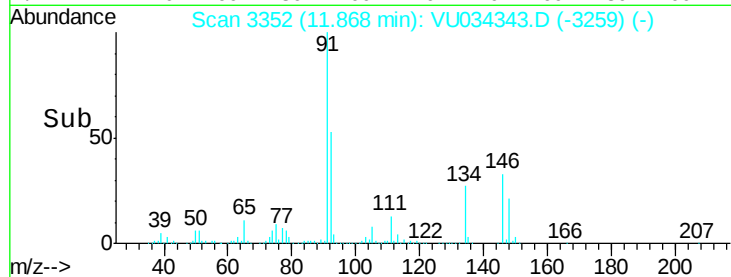
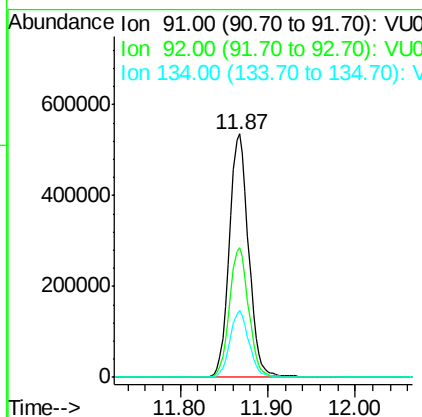
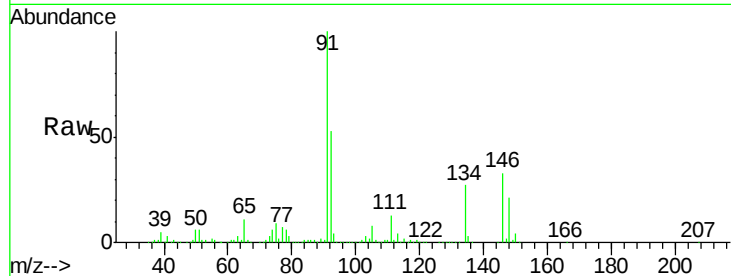
#89
n-Butylbenzene
Concen: 52.527 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Instrument :
MSVOA_U
ClientSampleId :
GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.5	79.4
134	27.0	13.2	39.6

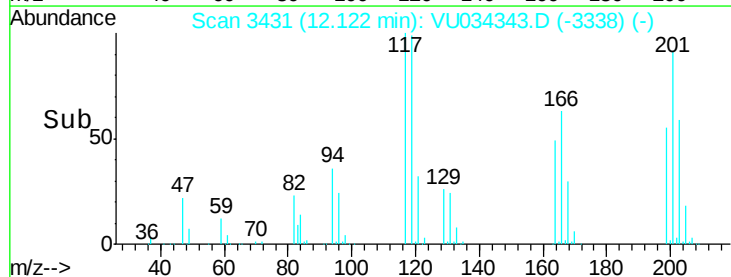
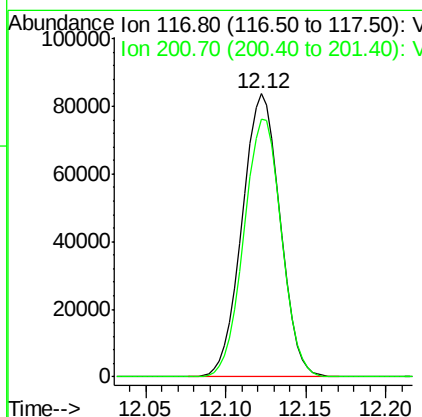
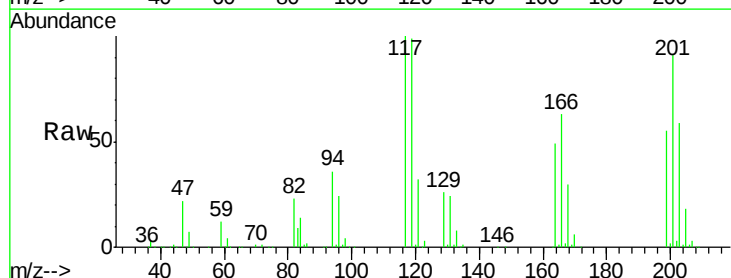
Manual Integrations
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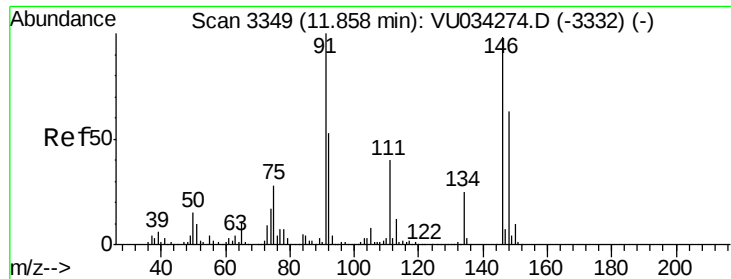
MMDadoda
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#90
Hexachloroethane
Concen: 46.836 ug/l
RT: 12.12 min Scan# 3431
Delta R.T. -0.00 min
Lab File: VU034343.D
Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.2	44.1	132.4





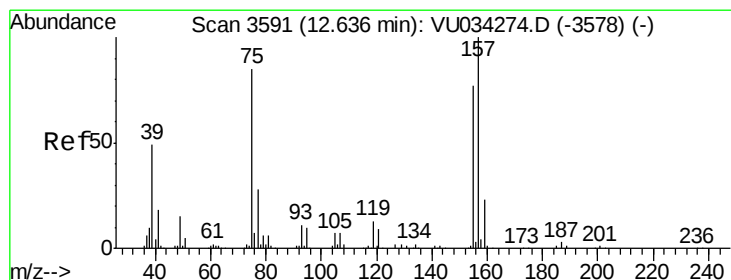
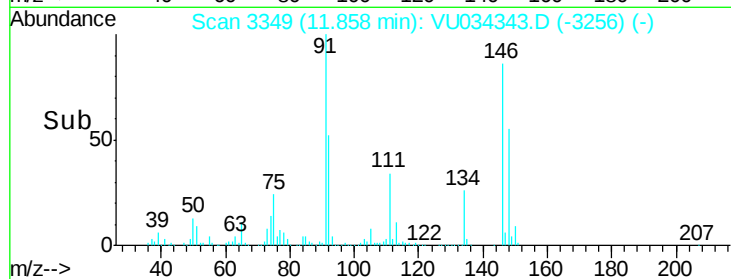
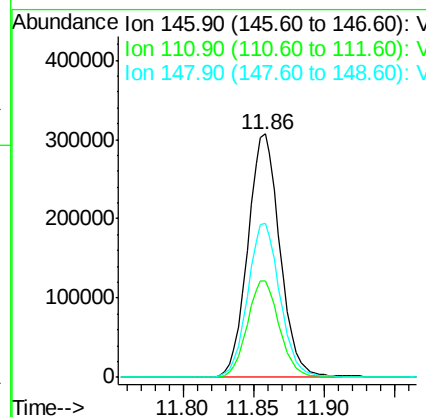
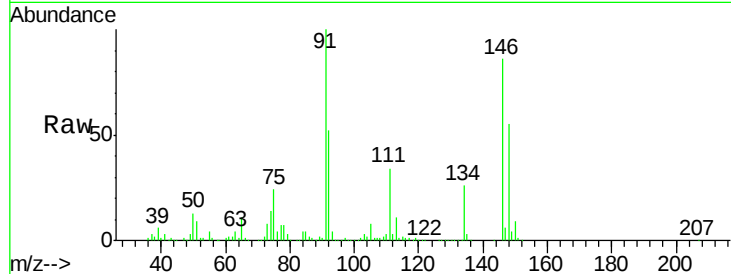
#91
 1,2-Dichlorobenzene
 Concen: 49.170 ug/l
 RT: 11.86 min Scan# 3349
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
146	100	487909		
111	40.2		20.0	60.0
148	64.0		31.6	94.8

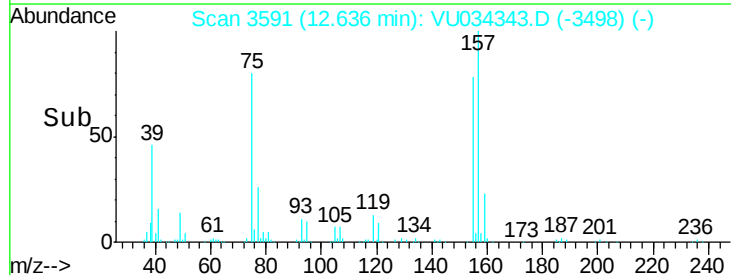
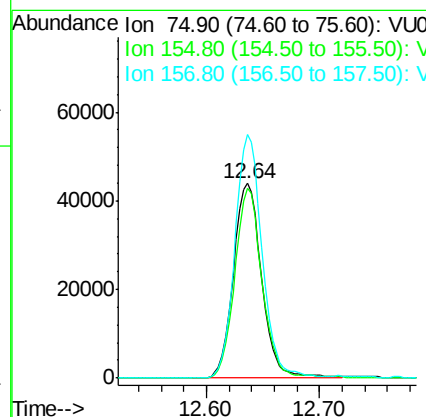
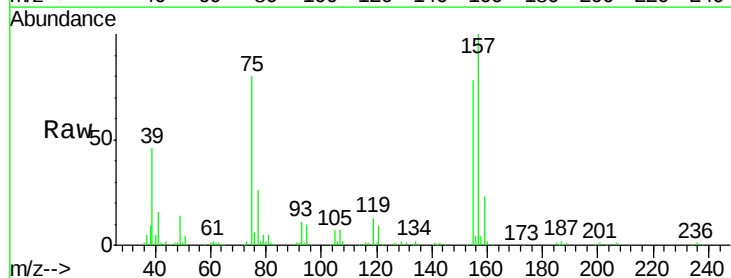
Manual Integrations
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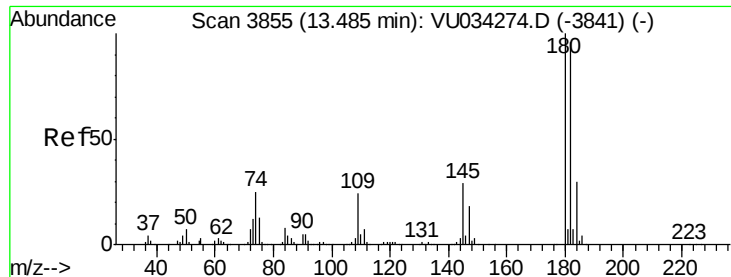
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.962 ug/l
 RT: 12.64 min Scan# 3591
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	76482		
155	94.5		44.6	134.0
157	120.5		58.2	174.6





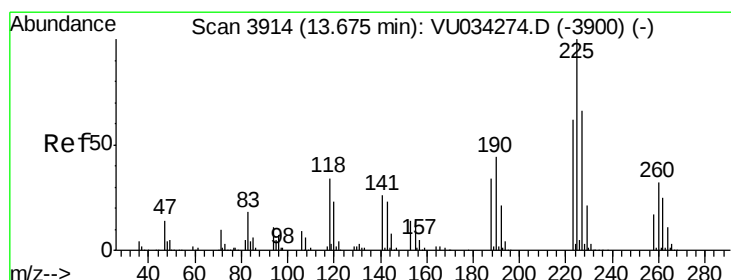
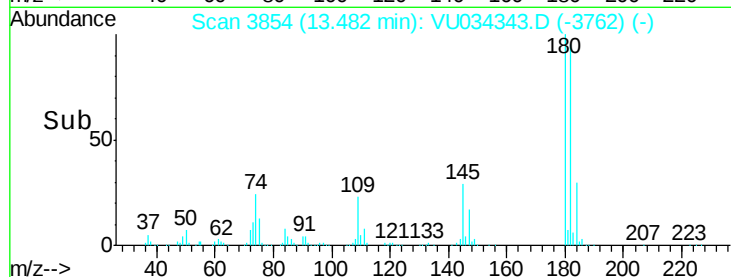
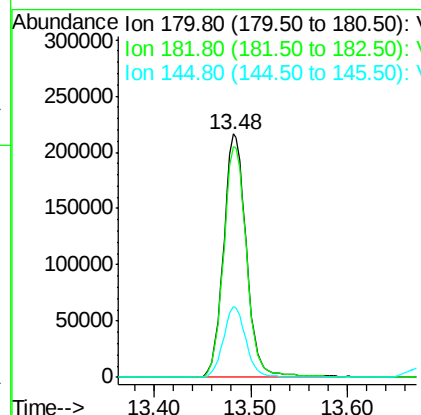
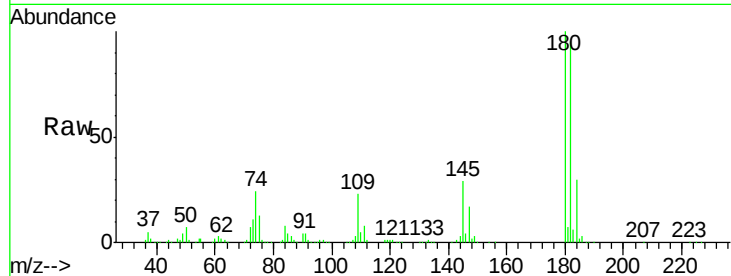
#93
 1,2,4-Trichlorobenzene
 Concen: 49.233 ug/l
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Instrument :
 MSVOA_U
 ClientSampleId :
 GW-200-B4-47.0-52.0-090519MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.7	47.9	143.8	
145	28.8	14.4	43.0	

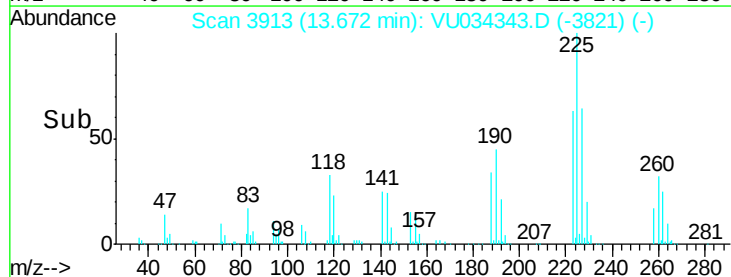
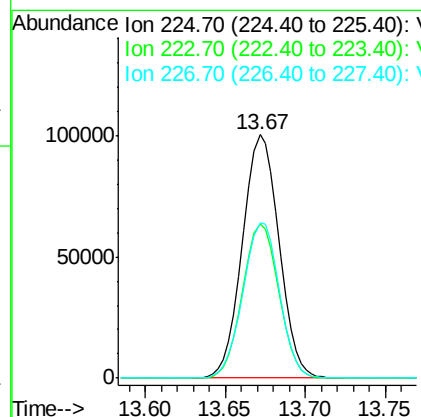
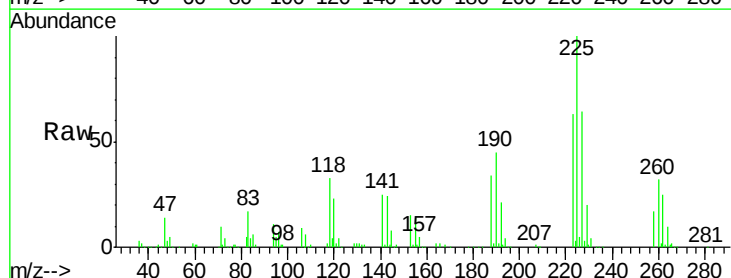
Manual Integrations
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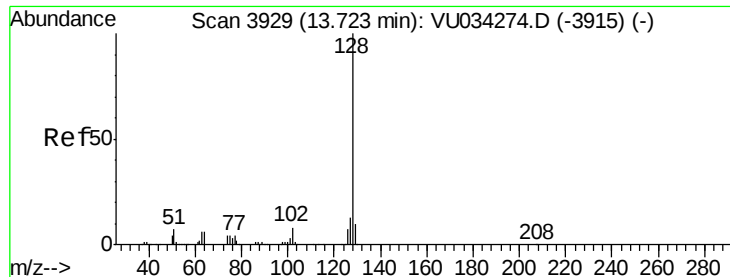
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#94
 Hexachlorobutadiene
 Concen: 45.080 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034343.D
 Acq: 06 Sep 2019 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.8	31.6	94.7	
227	63.8	32.3	96.8	





#95

Naphthalene

Concen: 54.506 ug/l

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

Instrument :

MSVOA_U

ClientSampleId :

GW-200-B4-47.0-52.0-090519MSD

Tot Ion:128 Resp: 1112471

Ion Ratio Lower Upper

128 100

127 12.7 10.6 15.8

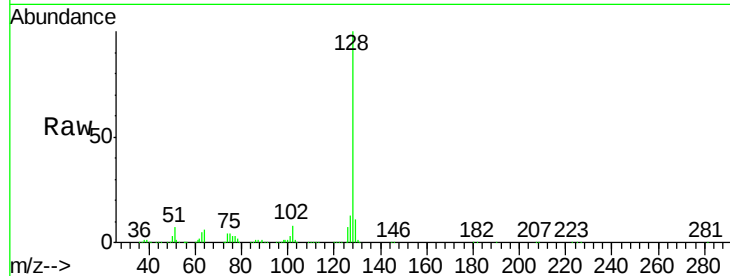
129 10.4 8.4 12.6

Manual Integrations

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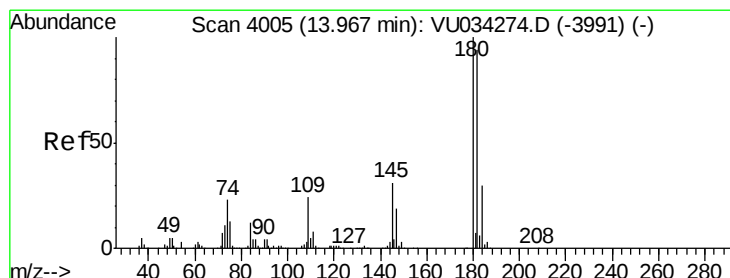
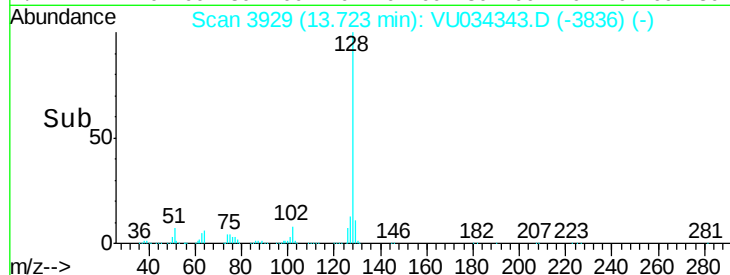
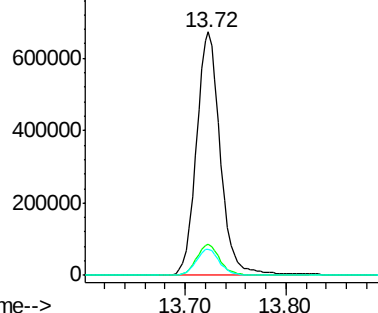
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 49.785 ug/l

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034343.D

Acq: 06 Sep 2019 20:03

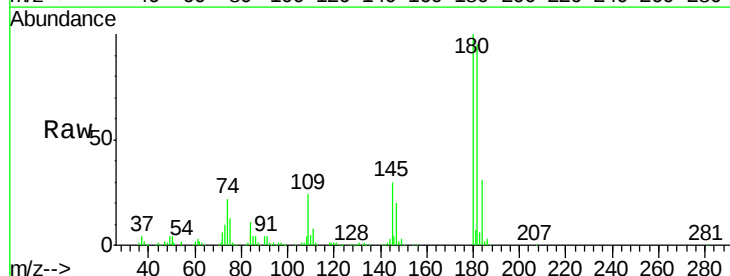
Tgt Ion:180 Resp: 345976

Ion Ratio Lower Upper

180 100

182 96.1 48.4 145.0

145 30.4 15.4 46.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

