

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U082919\
 Data File : VU034050.D
 Acq On : 29 Aug 2019 01:50
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 8/29/2019 8:47:46 AM

Quant Time: Aug 29 05:39:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	424243	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	691209	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	669529	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	354880	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	281569	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
35) Dibromofluoromethane	4.86	113	235607	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	7.55	98	918854	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	10.29	95	346944	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	223542	52.392	ug/l	100
3) Chloromethane	1.32	50	257630	45.004	ug/l	100
4) Vinyl Chloride	1.40	62	281745	49.614	ug/l	99
5) Bromomethane	1.61	94	118423	42.446	ug/l	98
6) Chloroethane	1.68	64	171322	49.348	ug/l	100
7) Trichlorofluoromethane	1.87	101	332820	50.581	ug/l	100
8) Diethyl Ether	2.09	74	145153	51.567	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.27	101	205924	49.401	ug/l	99
10) Methyl Iodide	2.40	142	137543	23.261	ug/l	100
11) Tert butyl alcohol	2.81	59	293372	234.029	ug/l	100
12) 1,1-Dichloroethene	2.27	96	215174	50.664	ug/l	99
13) Acrolein	2.18	56	110353	209.262	ug/l	99
14) Allyl chloride	2.58	41	396891m	49.703	ug/l	
15) Acrylonitrile	2.92	53	750879	261.034	ug/l	100
16) Acetone	2.31	43	625612	225.553	ug/l	100
17) Carbon Disulfide	2.46	76	654482	48.690	ug/l	99
18) Methyl Acetate	2.60	43	343991	47.992	ug/l	99
19) Methyl tert-butyl Ether	2.98	73	732980	52.673	ug/l	100
20) Methylene Chloride	2.68	84	256339	48.818	ug/l	99
21) trans-1,2-Dichloroethene	2.96	96	234894	50.960	ug/l	99
22) Diisopropyl ether	3.55	45	777787	53.156	ug/l	98
23) Vinyl Acetate	3.50	43	3362267	267.492	ug/l	100
24) 1,1-Dichloroethane	3.42	63	444074	51.405	ug/l	100
25) 2-Butanone	4.23	43	993241	257.388	ug/l	100
26) 2,2-Dichloropropane	4.20	77	278741	39.654	ug/l	98
27) cis-1,2-Dichloroethene	4.20	96	264871	51.197	ug/l	97
28) Bromochloromethane	4.52	49	223745	52.570	ug/l	99
29) Tetrahydrofuran	4.61	42	643993	270.608	ug/l	99
30) Chloroform	4.65	83	426462	49.478	ug/l	98
31) Cyclohexane	4.97	56	393831	48.517	ug/l	99
32) 1,1,1-Trichloroethane	4.89	97	354360	50.199	ug/l	99
36) 1,1-Dichloropropene	5.11	75	312771	47.839	ug/l	100
37) Ethyl Acetate	4.36	43	362874	49.564	ug/l	99
38) Carbon Tetrachloride	5.11	117	308347	48.860	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	6.40	83	375773	48.765	ug/l	99
40) Benzene	5.37	78	978987	49.492	ug/l	100
41) Methacrylonitrile	4.52	41	198301	52.813	ug/l	99
42) 1,2-Dichloroethane	5.38	62	335814	49.163	ug/l	99
43) Isopropyl Acetate	5.53	43	561377	50.400	ug/l	99
44) Trichloroethene	6.16	130	260877	50.222	ug/l	99
45) 1,2-Dichloropropane	6.41	63	273400	50.210	ug/l	100
46) Dibromomethane	6.54	93	170799	48.687	ug/l	100
47) Bromodichloromethane	6.74	83	337703	49.202	ug/l	100
48) Methyl methacrylate	6.60	41	272737	50.744	ug/l	98
49) 1,4-Dioxane	6.59	88	121159	899.679	ug/l	100
51) 4-Methyl-2-Pentanone	7.44	43	1901537	247.204	ug/l	100
52) Toluene	7.62	92	611980	50.222	ug/l	100
53) t-1,3-Dichloropropene	7.86	75	358187	47.032	ug/l	99
54) cis-1,3-Dichloropropene	7.25	75	402618	48.390	ug/l	98
55) 1,1,2-Trichloroethane	8.05	97	246388	47.802	ug/l	99
56) Ethyl methacrylate	8.00	69	381045	44.674	ug/l	99
57) 1,3-Dichloropropane	8.22	76	428091	48.915	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.11	63	742782	260.486	ug/l	99
59) 2-Hexanone	8.34	43	1433021	246.779	ug/l	100
60) Dibromochloromethane	8.46	129	269505	48.710	ug/l	100
61) 1,2-Dibromoethane	8.57	107	259608	47.814	ug/l	99
64) Tetrachloroethene	8.21	164	229639	51.073	ug/l	99
65) Chlorobenzene	9.10	112	672532	48.811	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	238257	47.688	ug/l	99
67) Ethyl Benzene	9.23	91	1161417	49.727	ug/l	99
68) m/p-Xylenes	9.36	106	899539	101.290	ug/l	99
69) o-Xylene	9.76	106	429511	50.411	ug/l	100
70) Styrene	9.77	104	755017	51.682	ug/l	100
71) Bromoform	9.94	173	202386	46.624	ug/l #	99
73) Isopropylbenzene	10.15	105	1155735	48.485	ug/l	100
74) N-amyl acetate	10.00	43	502507	50.122	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	414808	45.465	ug/l	100
76) 1,2,3-Trichloropropane	10.48	75	360009m	45.010	ug/l	
77) Bromobenzene	10.43	156	298024	46.478	ug/l	98
78) n-propylbenzene	10.57	91	1349070	48.597	ug/l	99
79) 2-Chlorotoluene	10.64	91	798415	47.950	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	996403	49.319	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	93374m	39.310	ug/l	
82) 4-Chlorotoluene	10.75	91	919139	47.997	ug/l	99
83) tert-Butylbenzene	11.08	119	939347	47.230	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	997814	49.737	ug/l	99
85) sec-Butylbenzene	11.31	105	1153630	48.395	ug/l	99
86) p-Isopropyltoluene	11.46	119	1052452	48.817	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	534997	47.128	ug/l	100
88) 1,4-Dichlorobenzene	11.49	146	542653	47.267	ug/l	99
89) n-Butylbenzene	11.87	91	940050	49.456	ug/l	99
90) Hexachloroethane	12.13	117	156821	42.072	ug/l	100
91) 1,2-Dichlorobenzene	11.86	146	527627	48.520	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	87076	47.907	ug/l	99

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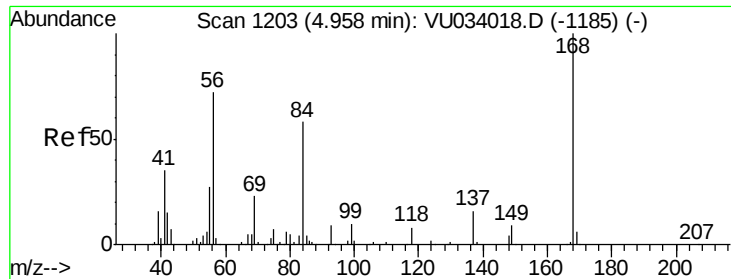
Manual Integrations
APPROVED

MMDadoda
8/29/2019 8:47:46 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	365632	47.332	ug/l	99
94) Hexachlorobutadiene	13.67	225	189970	44.657	ug/l	99
95) Naphthalene	13.73	128	1066718	48.223	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	363476	52.179	ug/l	100

(#) = 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: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 424243

Ion Ratio Lower Upper

168 100

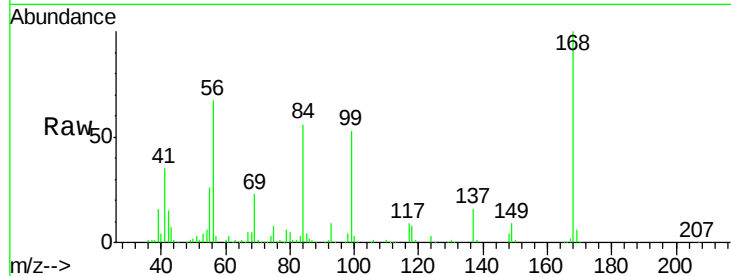
99 52.2 42.3 63.5

Manual Integrations

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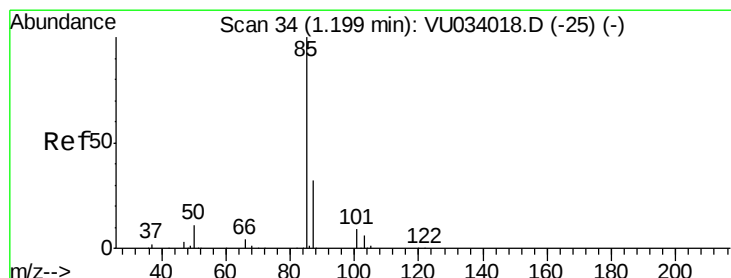
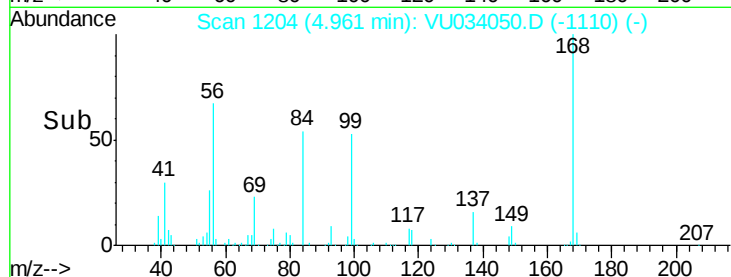
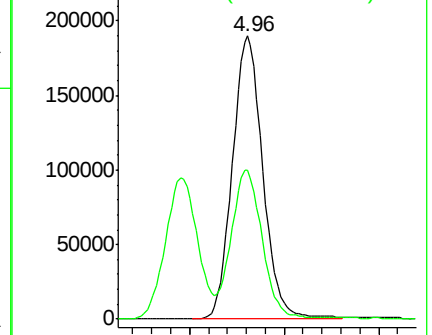
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Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)



#2

Dichlorodifluoromethane

Concen: 52.392 ug/l

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU034050.D

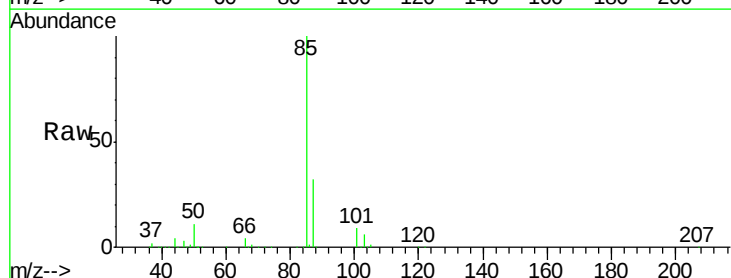
Acq: 29 Aug 2019 01:50

Tgt Ion: 85 Resp: 223542

Ion Ratio Lower Upper

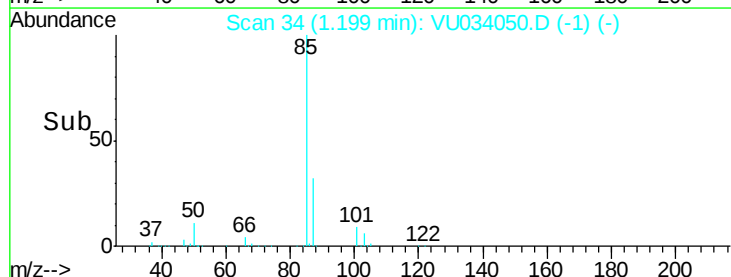
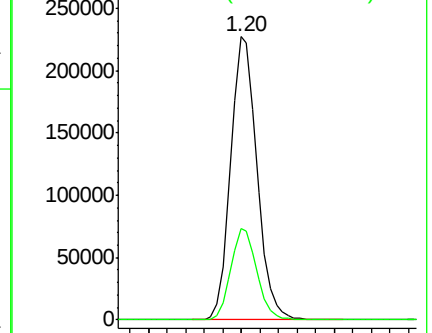
85 100

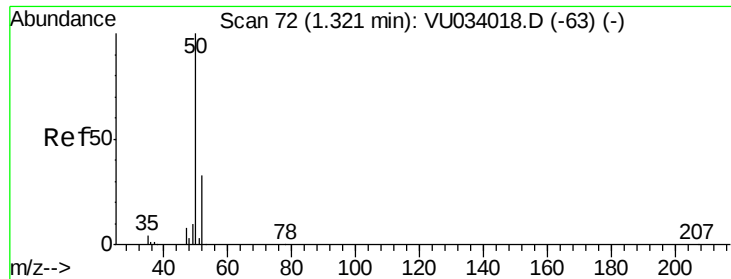
87 32.1 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU034018.D (-25) (-)

Ion 86.90 (86.60 to 87.60): VU034018.D (-25) (-)





#3

Chloromethane

Concen: 45.004 ug/l

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 257630

Ion Ratio Lower Upper

50 100

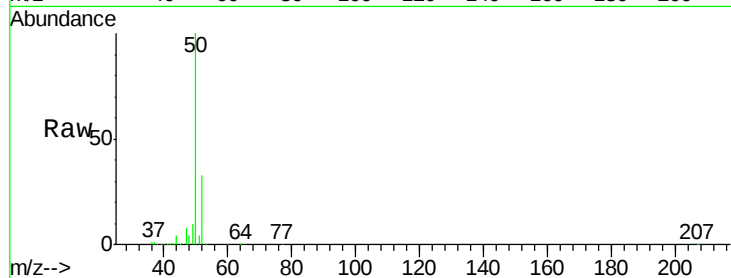
52 33.0 26.2 39.4

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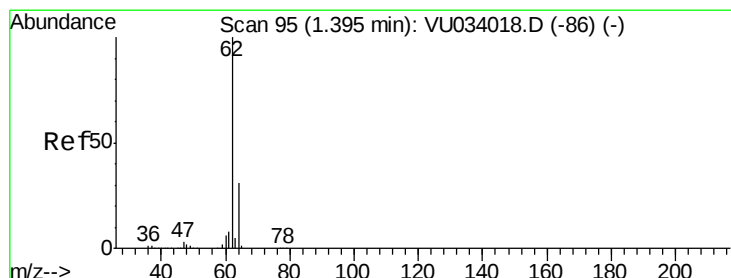
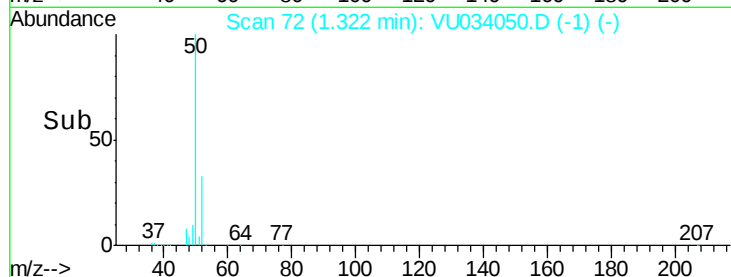
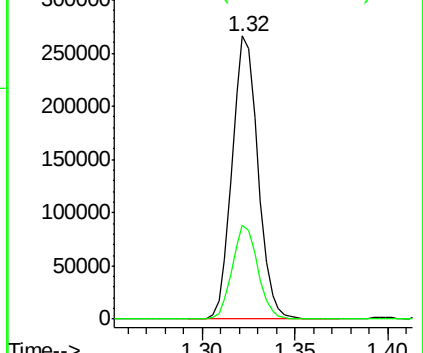
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Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 49.614 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU034050.D

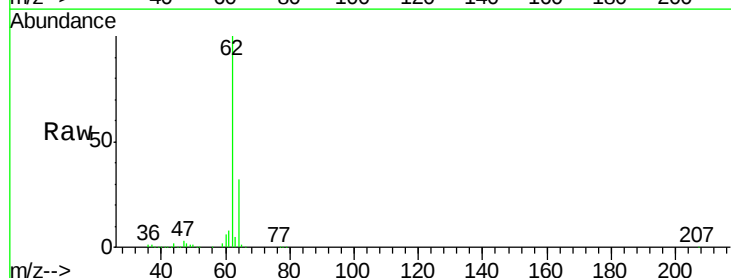
Acq: 29 Aug 2019 01:50

Tgt Ion: 62 Resp: 281745

Ion Ratio Lower Upper

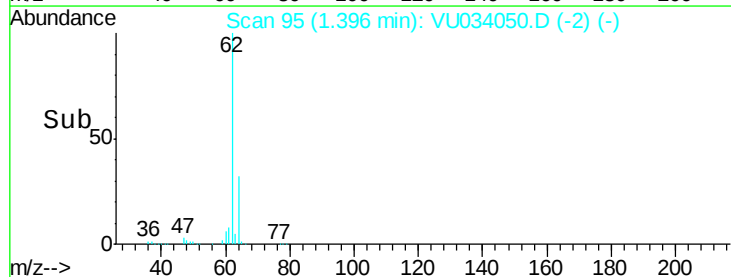
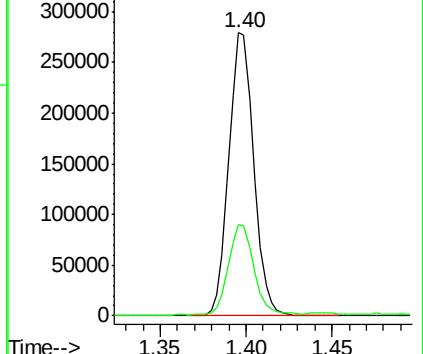
62 100

64 32.1 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: 42.446 ug/l

RT: 1.61 min Scan# 161

Delta R.T. 0.01 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 118423

Ion Ratio Lower Upper

94 100

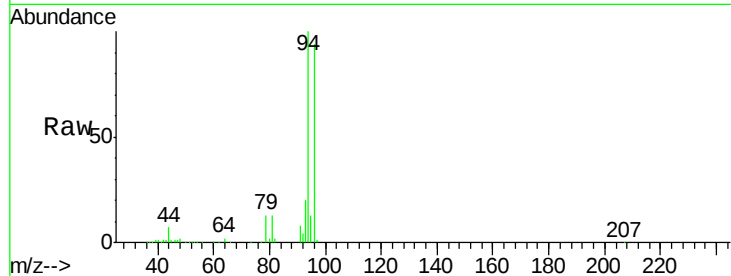
96 93.6 76.3 114.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VU034050.D (-161) (-)

Ion 95.90 (95.60 to 96.60): VU034050.D (-161) (-)

1.61

100000

80000

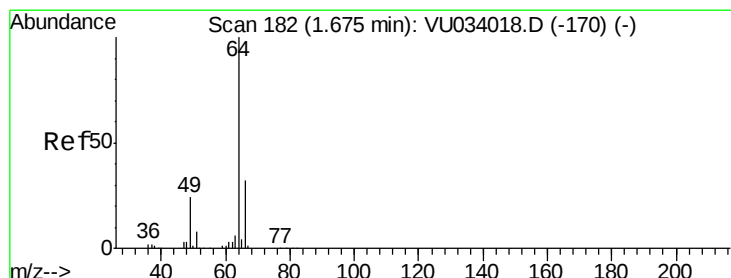
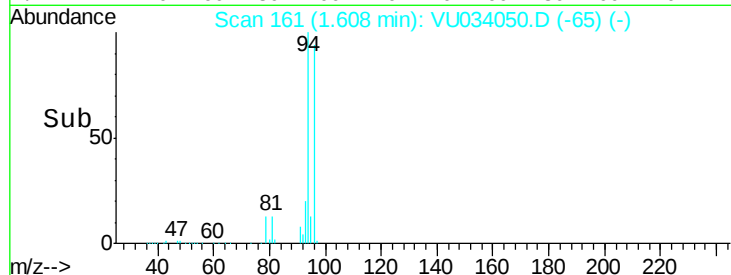
60000

40000

20000

0

Time--> 1.55 1.60 1.65 1.70



#6

Chloroethane

Concen: 49.348 ug/l

RT: 1.68 min Scan# 185

Delta R.T. 0.01 min

Lab File: VU034050.D

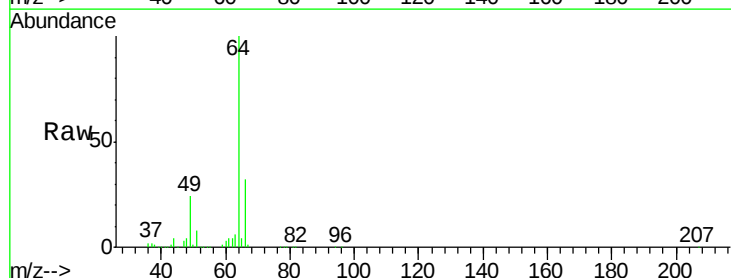
Acq: 29 Aug 2019 01:50

Tgt Ion: 64 Resp: 171322

Ion Ratio Lower Upper

64 100

66 32.0 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VU034050.D (-185) (-)

Ion 65.90 (65.60 to 66.60): VU034050.D (-185) (-)

1.68

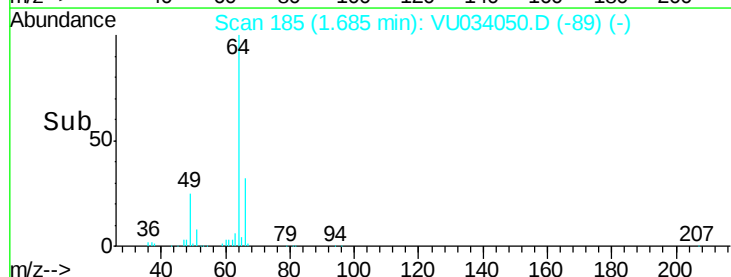
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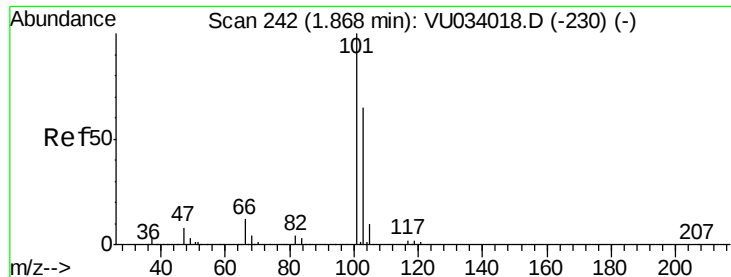
100000

50000

0

Time--> 1.60 1.65 1.70 1.75





#7

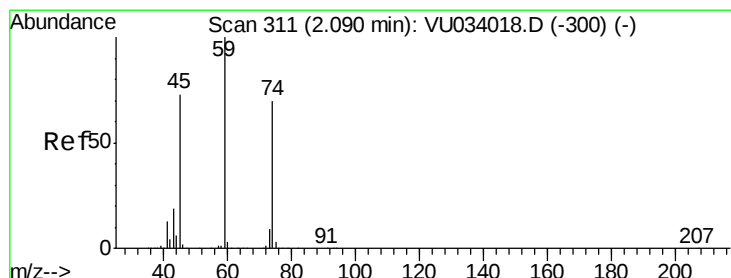
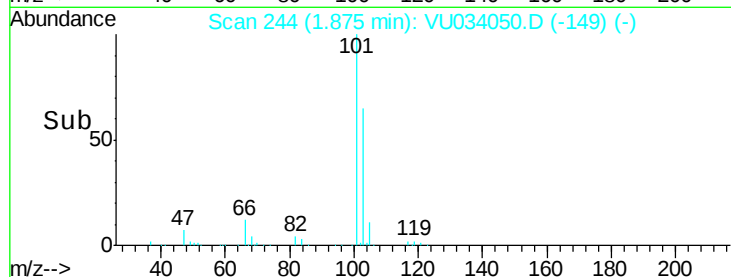
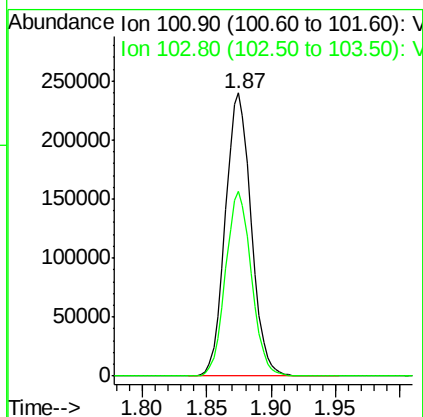
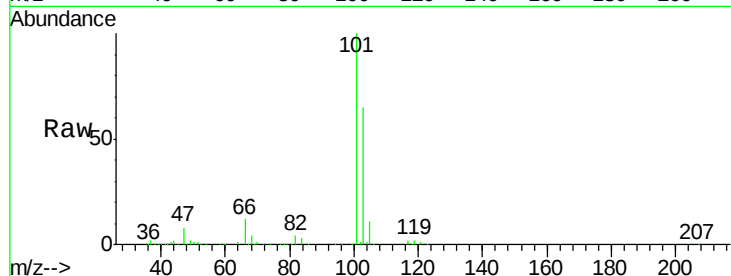
Trichlorofluoromethane
 Concen: 50.581 ug/l
 RT: 1.87 min Scan# 244
 Delta R.T. 0.01 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
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 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.1	78.1

Manual Integrations
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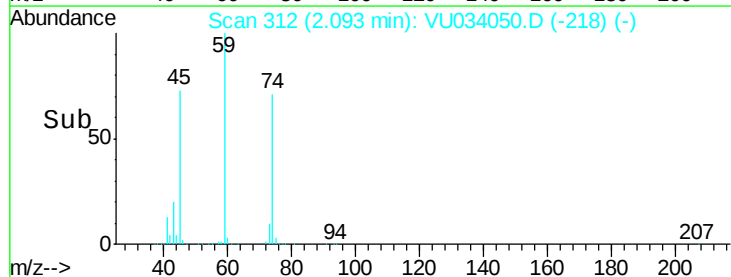
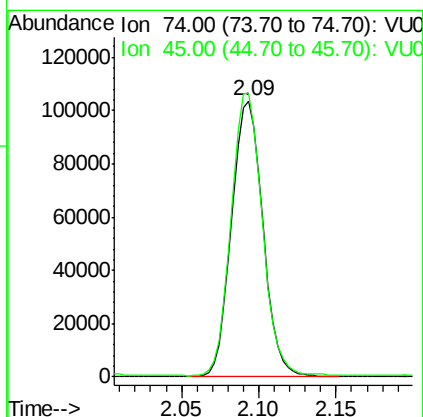
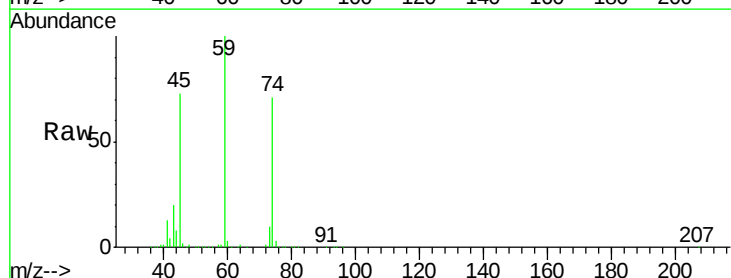
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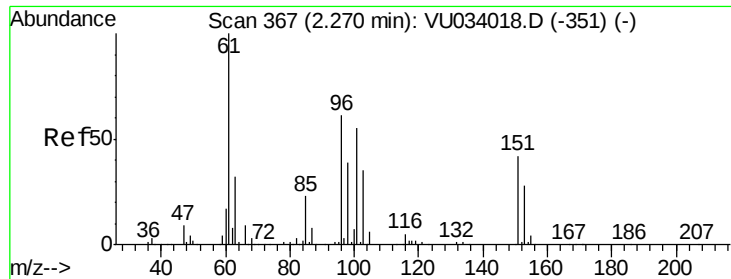


#8

Diethyl Ether
 Concen: 51.567 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.8	155.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.401 ug/l

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

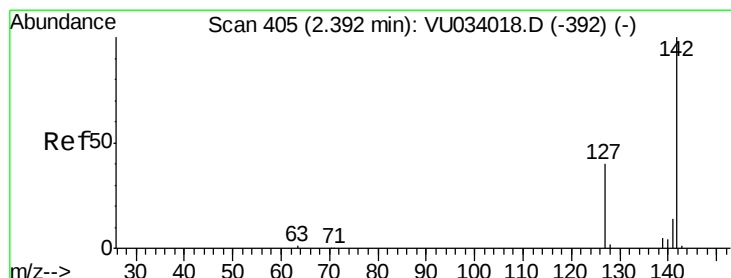
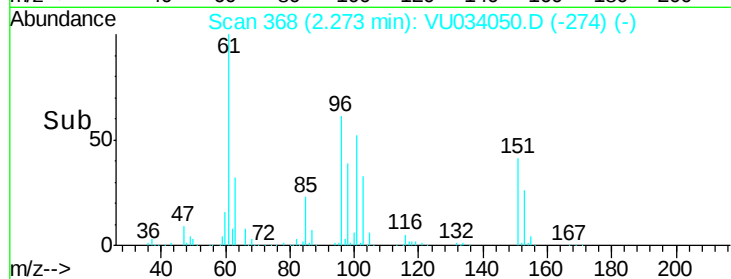
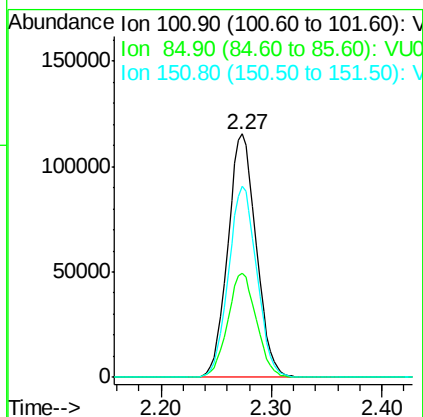
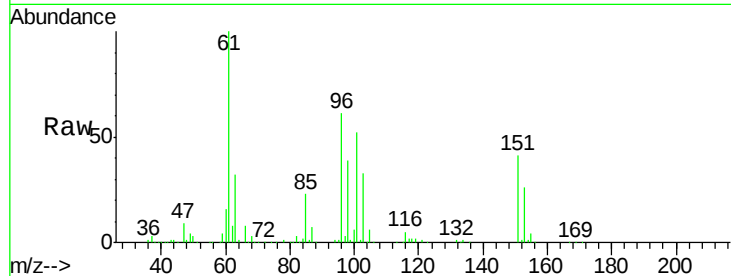
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	205924
Ion Ratio	Lower	Upper	
101	100		
85	43.1	34.2	51.2
151	78.4	61.4	92.2

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#10

Methyl Iodide

Concen: 23.261 ug/l

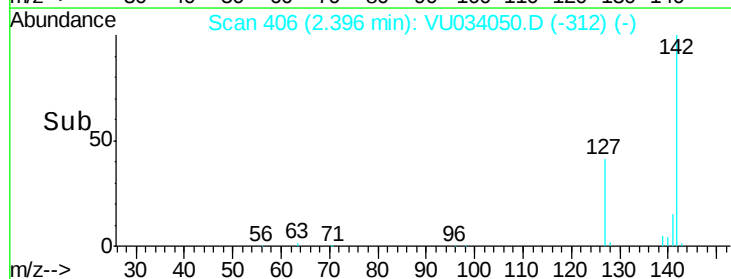
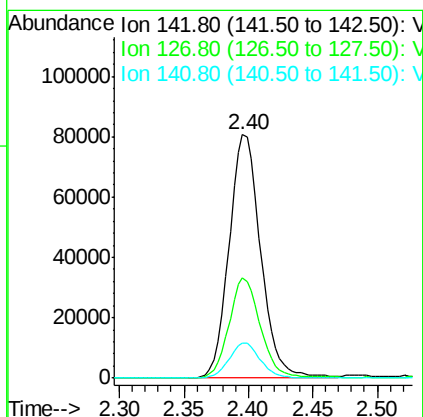
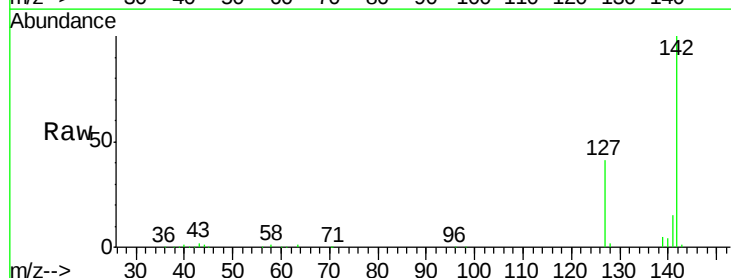
RT: 2.40 min Scan# 406

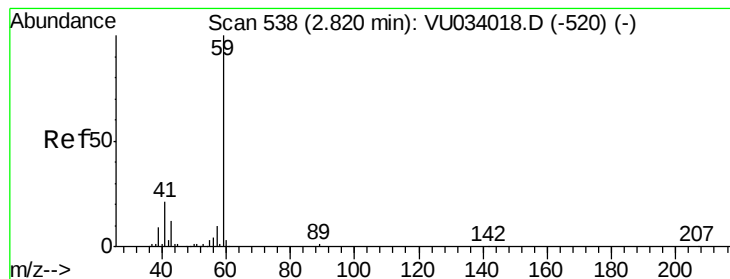
Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Tgt Ion:	142	Resp:	137543
Ion Ratio	Lower	Upper	
142	100		
127	40.8	32.6	48.8
141	14.3	11.3	16.9





#11

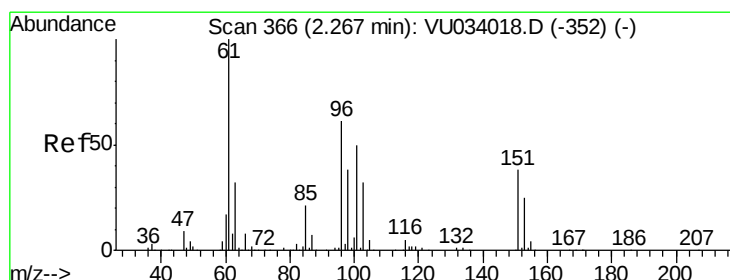
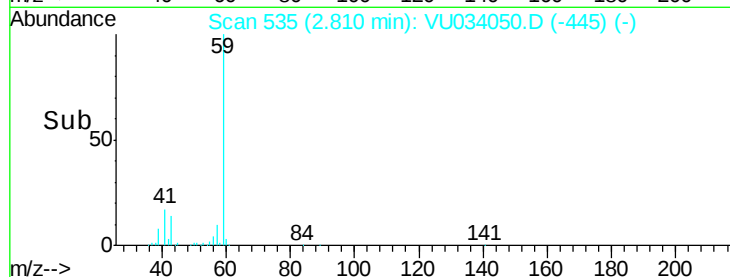
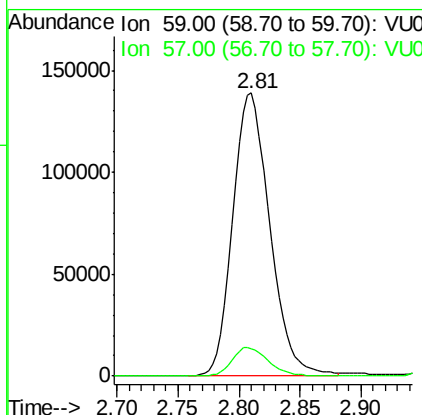
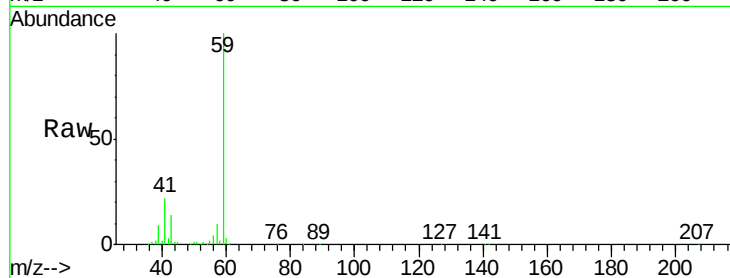
Tert butyl alcohol
 Concen: 234.029 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
59	100	293372		
57	9.9		8.0	12.0

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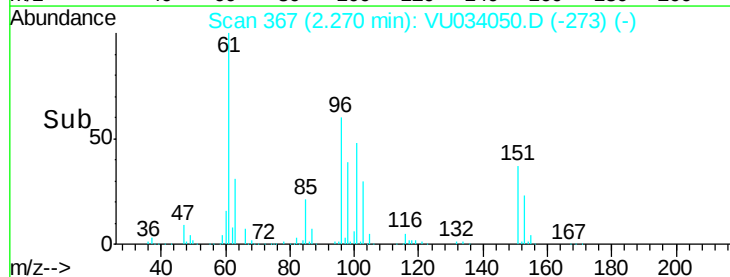
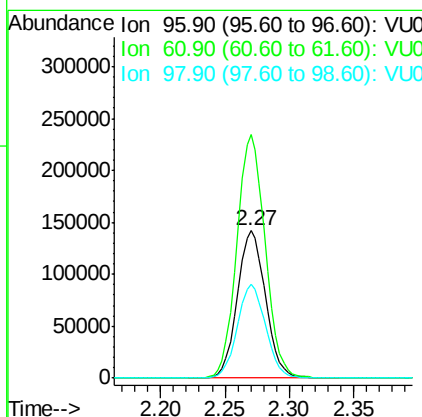
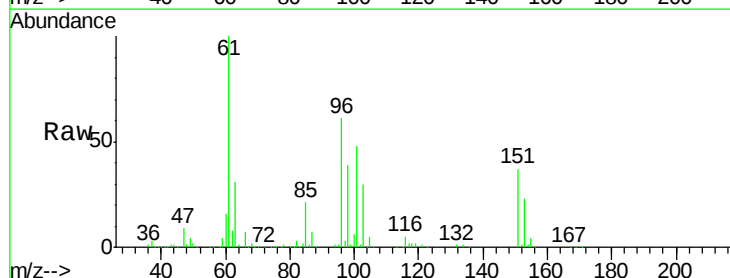
MMDadoda
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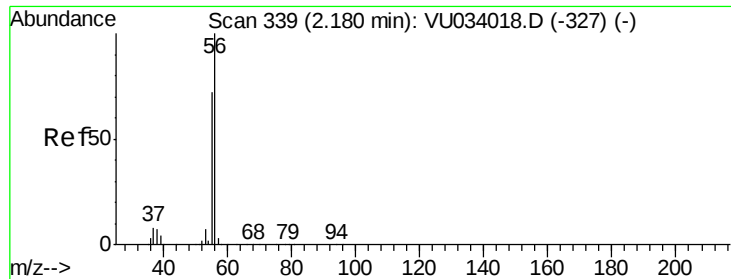


#12

1,1-Dichloroethene
 Concen: 50.664 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	215174		
61	165.3		131.3	196.9
98	63.7		50.3	75.5





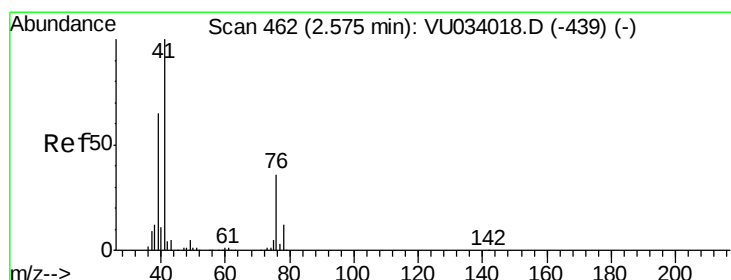
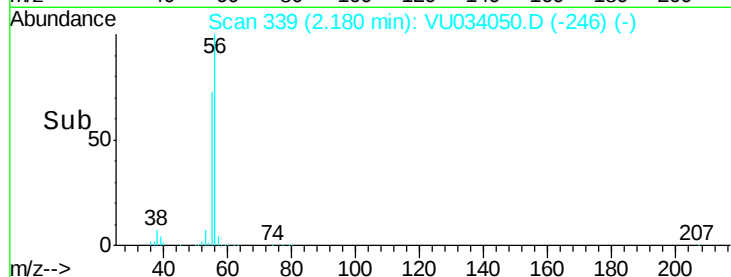
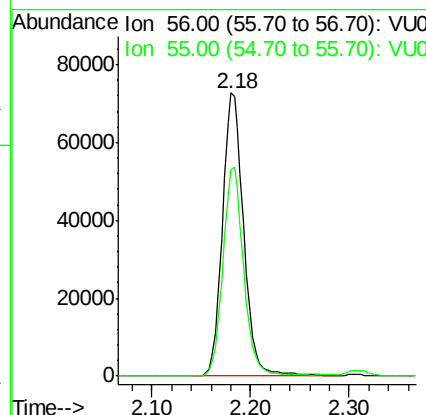
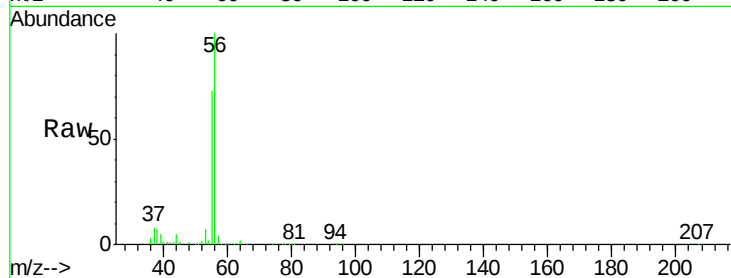
#13
Acrolein
Concen: 209.262 ug/l
RT: 2.18 min Scan# 339
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	72.2	57.1	85.7	

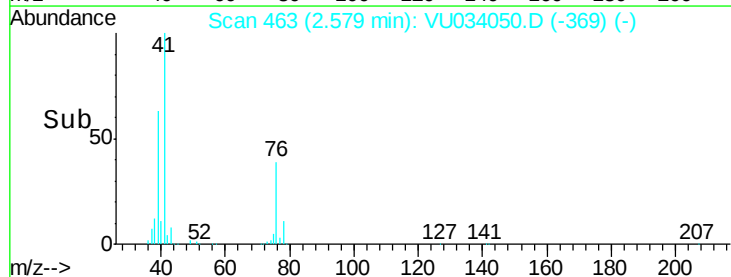
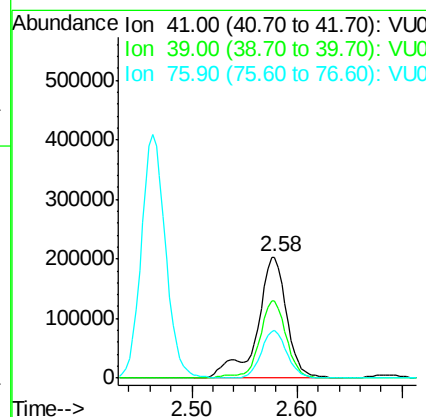
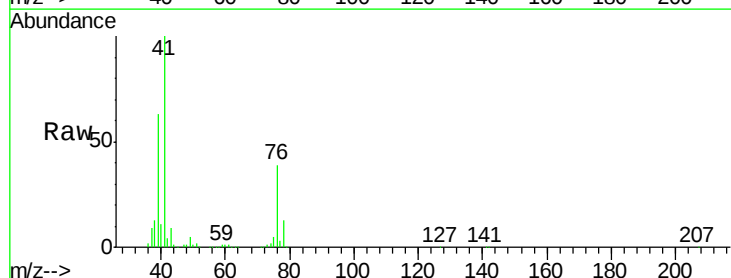
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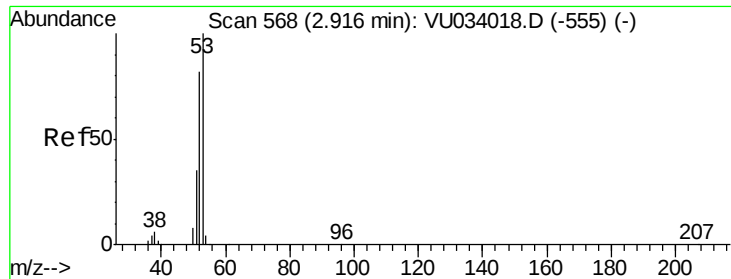
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#14
Allyl chloride
Concen: 49.703 ug/l m
RT: 2.58 min Scan# 463
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.5	46.8	70.2	
76	33.5	26.6	40.0	





#15

Acrylonitrile

Concen: 261.034 ug/l

RT: 2.92 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

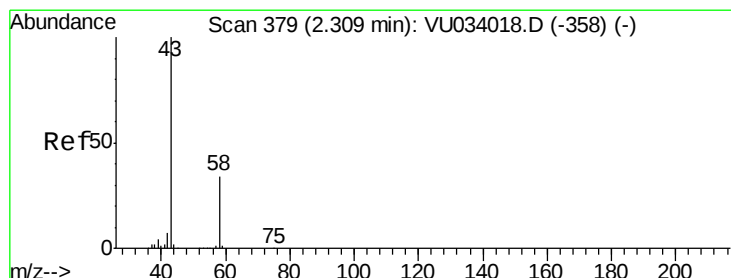
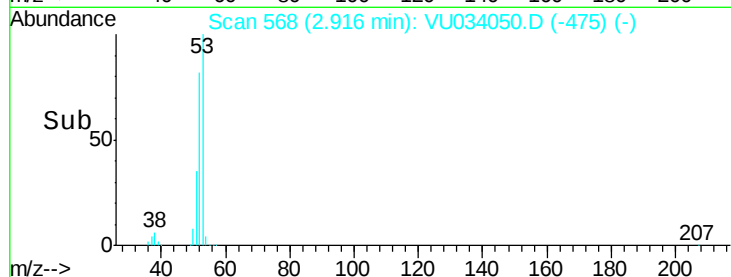
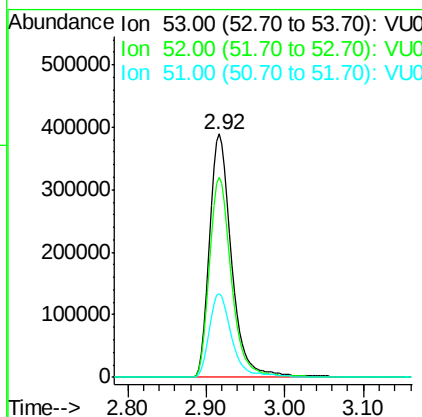
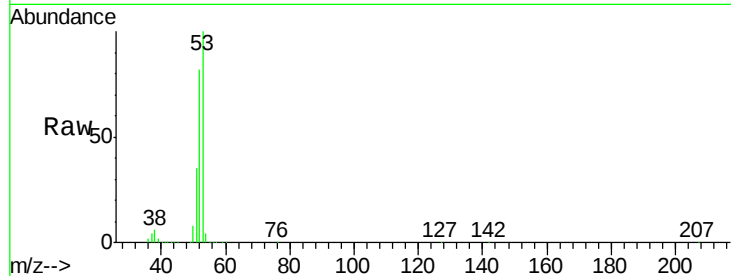
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	750879
Ion	Ratio	Lower	Upper
53	100		
52	81.9	65.7	98.5
51	35.3	27.9	41.9

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#16

Acetone

Concen: 225.553 ug/l

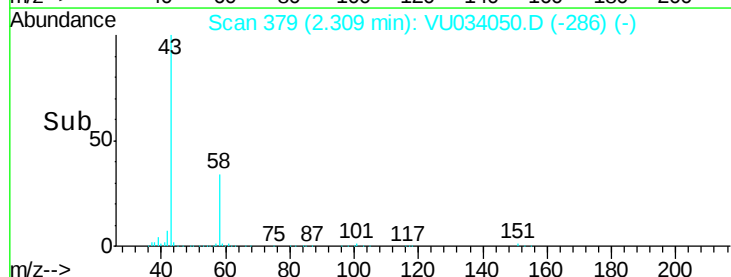
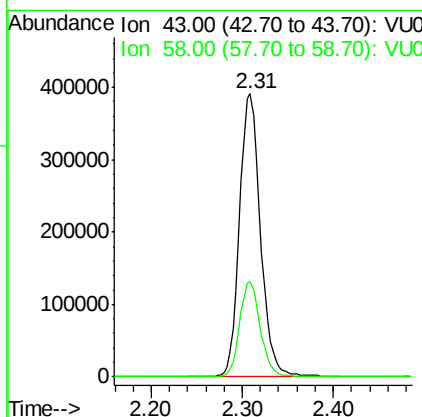
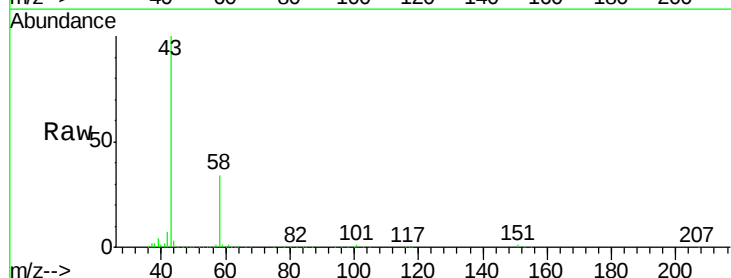
RT: 2.31 min Scan# 379

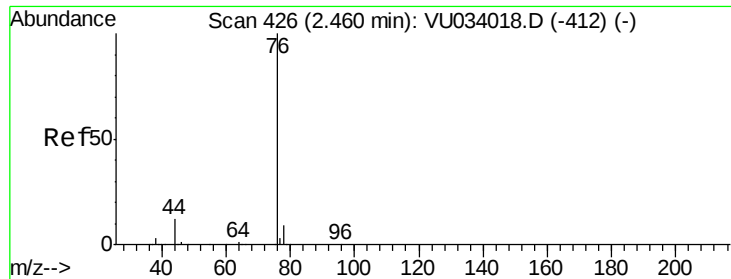
Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Tgt Ion:	43	Resp:	625612
Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.8	40.2





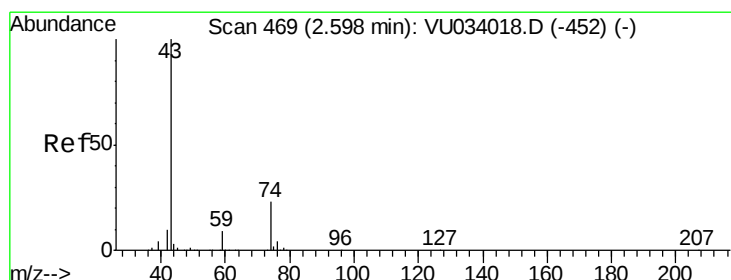
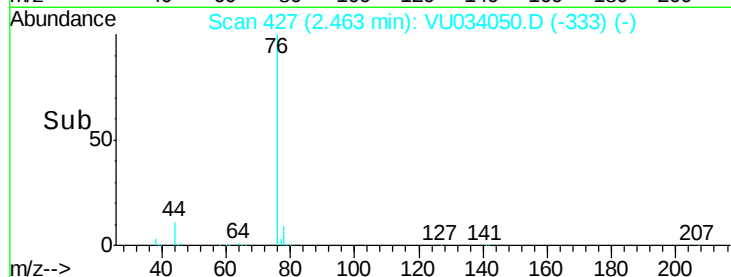
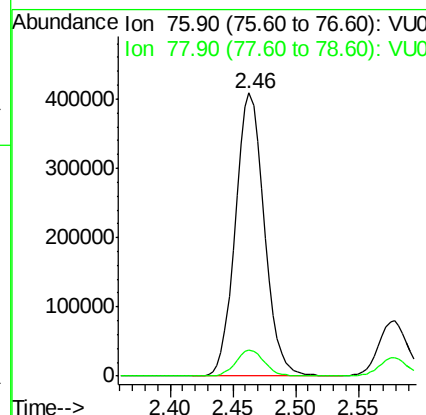
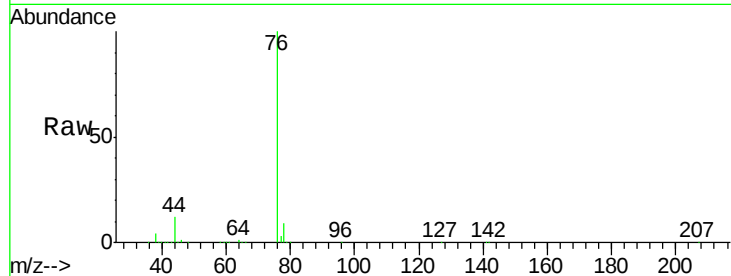
#17
Carbon Disulfide
Concen: 48.690 ug/l
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.1	10.7

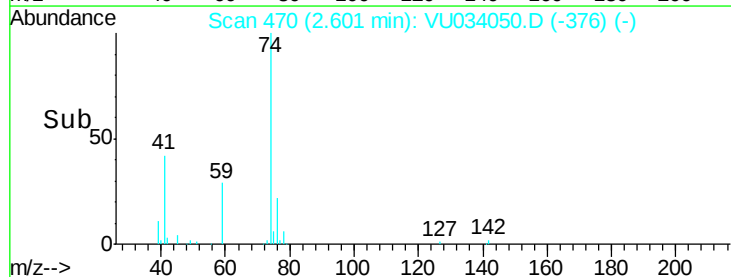
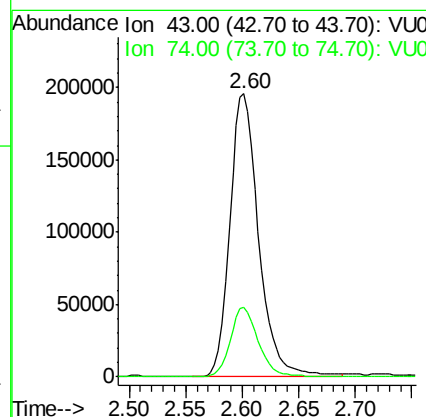
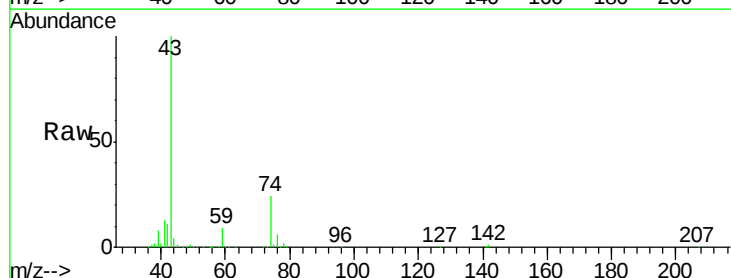
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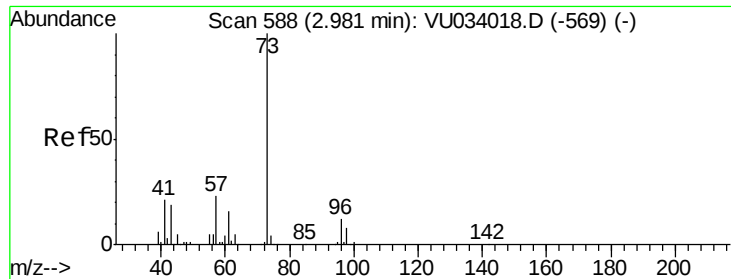
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#18
Methyl Acetate
Concen: 47.992 ug/l
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	19.2	28.8





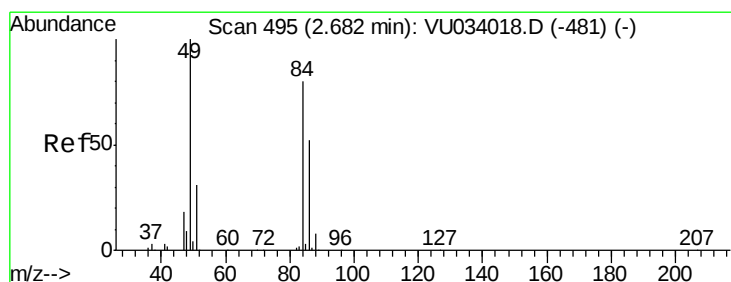
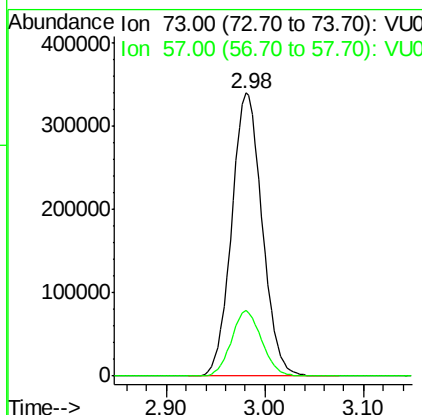
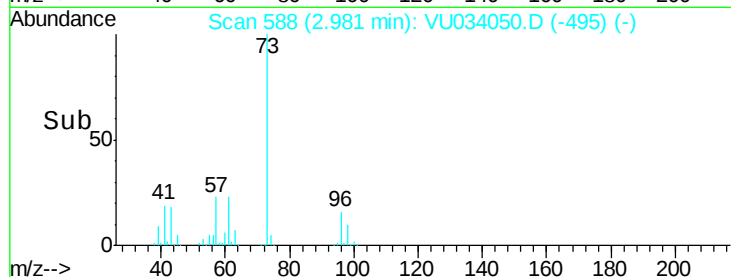
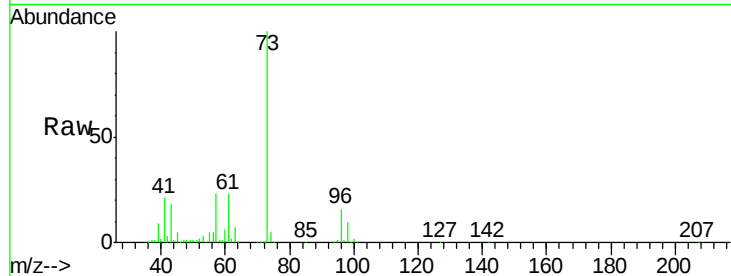
#19
Methvl tert-butvl Ether
Concen: 52.673 ug/l
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.0	18.3	27.5

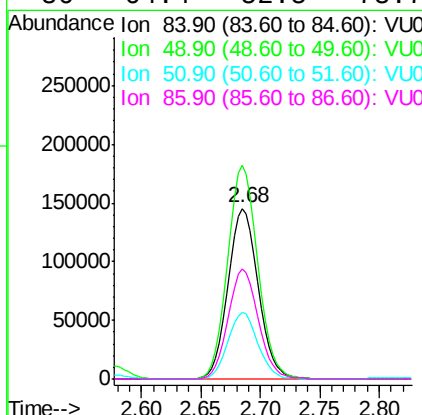
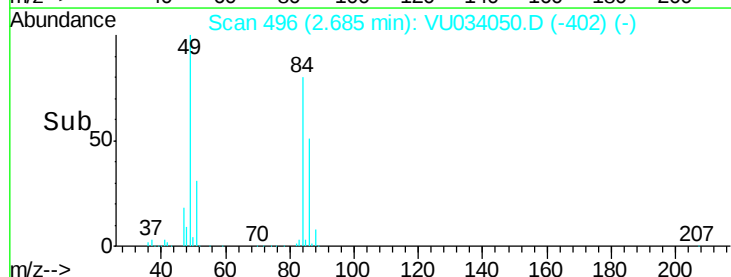
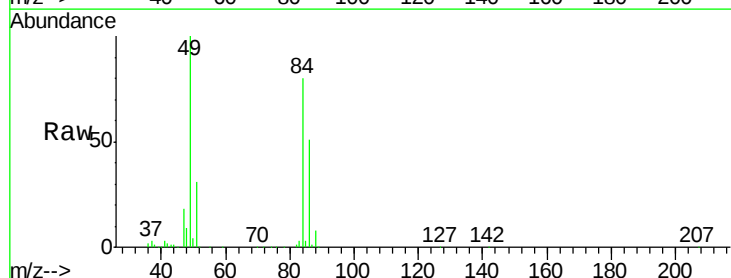
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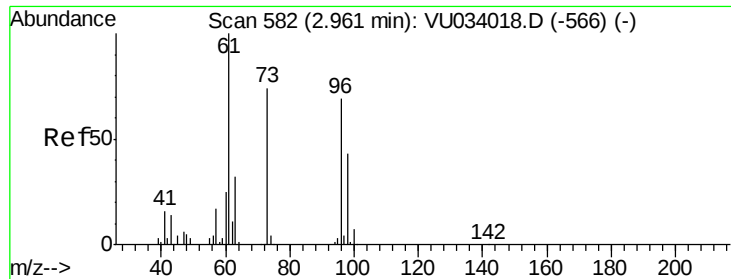
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#20
Methylene Chloride
Concen: 48.818 ug/l
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.3	100.2	150.4
51	39.4	30.8	46.2
86	64.4	52.5	78.7





#21

trans-1,2-Dichloroethene

Concen: 50.960 ug/l

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

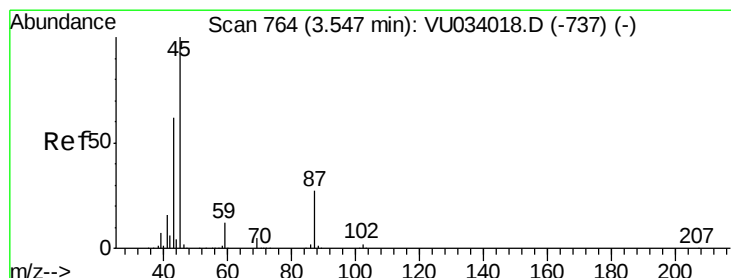
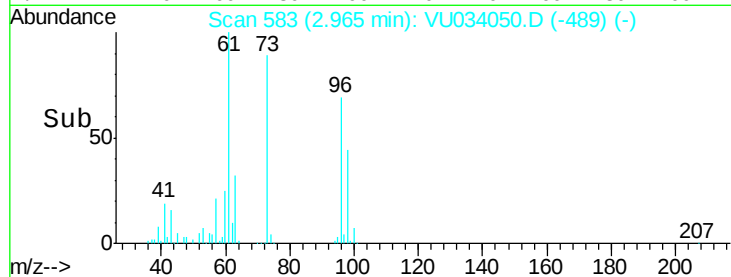
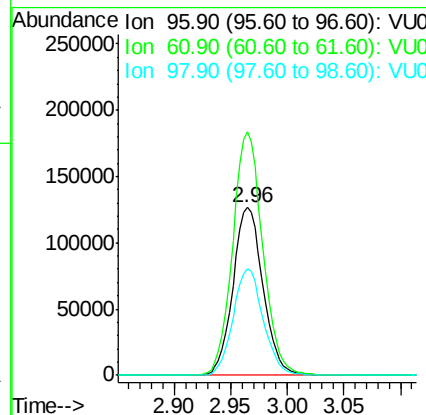
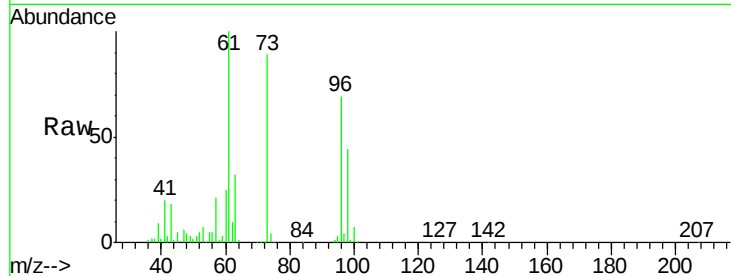
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	234894
Ion	Ratio	Lower	Upper
96	100		
61	145.1	115.5	173.3
98	63.6	50.1	75.1

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#22

Diisopropyl ether

Concen: 53.156 ug/l

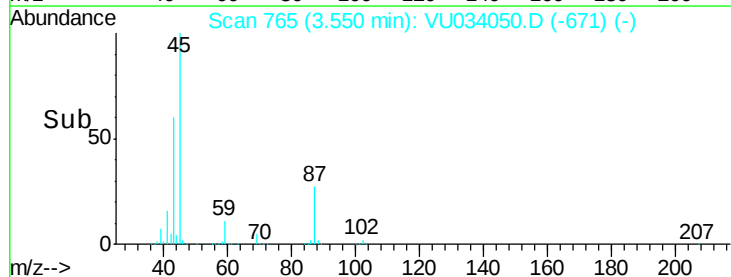
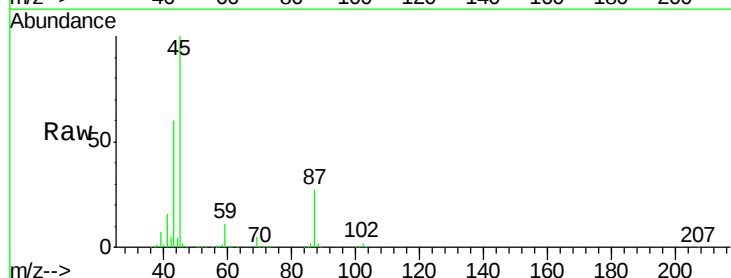
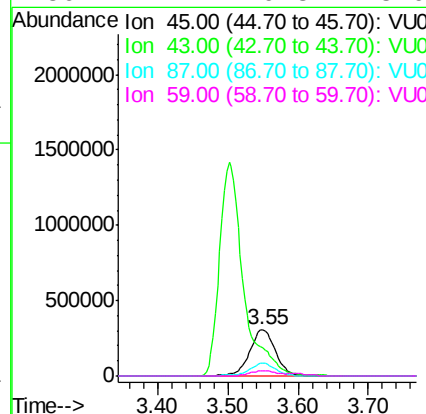
RT: 3.55 min Scan# 765

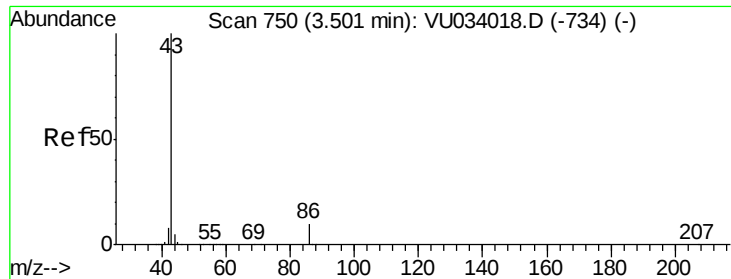
Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Tgt Ion:	45	Resp:	777787
Ion	Ratio	Lower	Upper
45	100		
43	60.3	49.7	74.5
87	27.0	21.8	32.8
59	11.4	9.3	13.9





#23

Vinyl Acetate

Concen: 267.492 ug/l

RT: 3.50 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 3362267

Ion Ratio Lower Upper

43 100

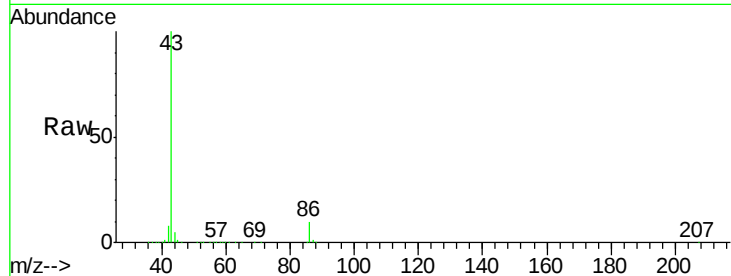
86 10.3 8.3 12.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU034050.D (-657) (-)

Ion 86.00 (85.70 to 86.70): VU034050.D (-657) (-)

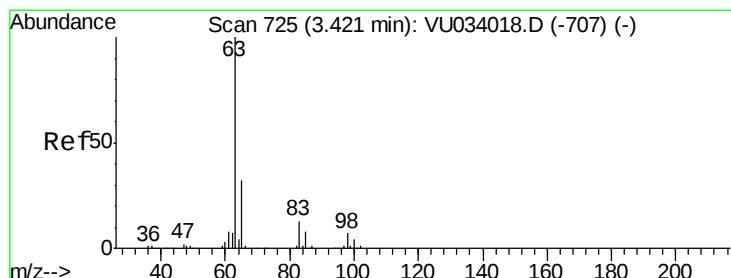
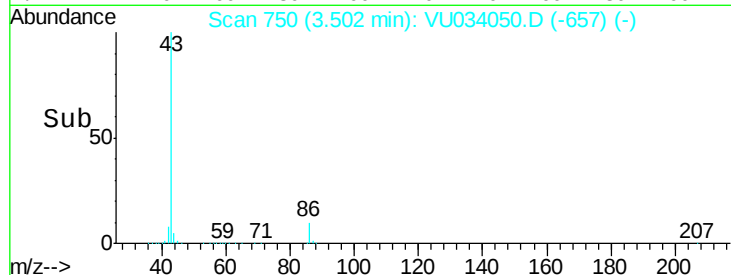
1500000

1000000

500000

0

Time-->



#24

1,1-Dichloroethane

Concen: 51.405 ug/l

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

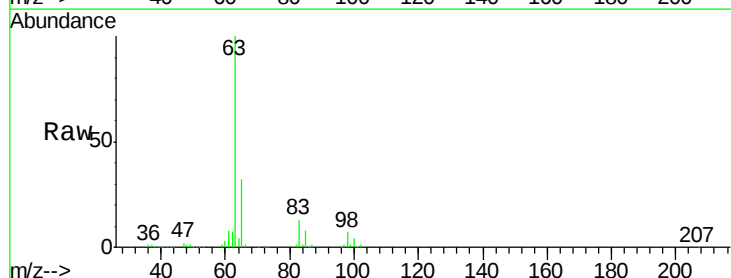
Tgt Ion: 63 Resp: 444074

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

100 4.0 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU034050.D (-632) (-)

Ion 97.90 (97.60 to 98.60): VU034050.D (-632) (-)

Ion 99.90 (99.60 to 100.60): VU034050.D (-632) (-)

250000

200000

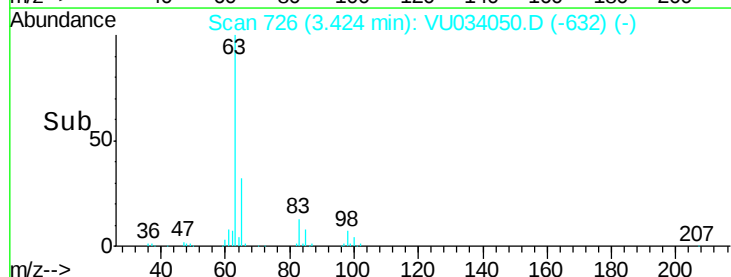
150000

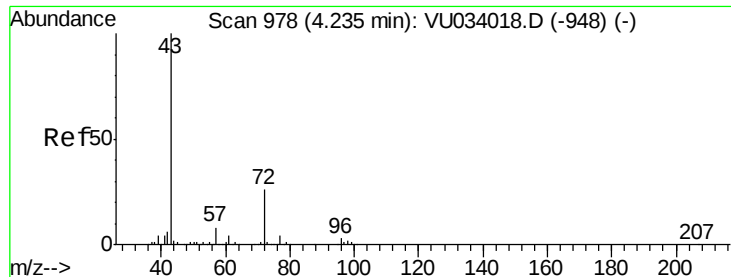
100000

50000

0

Time-->





#25

2-Butanone

Concen: 257.388 ug/l

RT: 4.23 min Scan# 978

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 993241

Ion Ratio Lower Upper

43 100

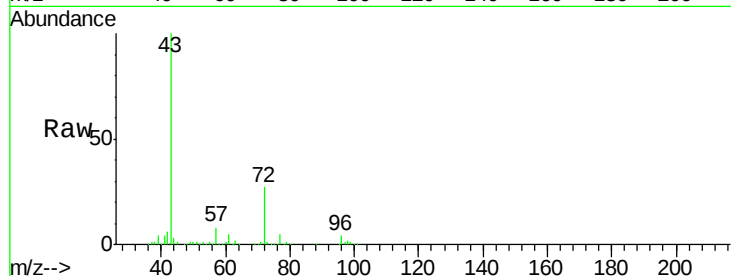
72 26.5 21.2 31.8

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Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-948) (-)

Ion 72.00 (71.70 to 72.70): VU034018.D (-948) (-)

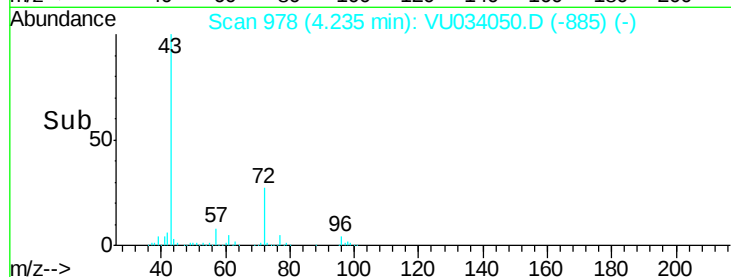
4.23

4.20

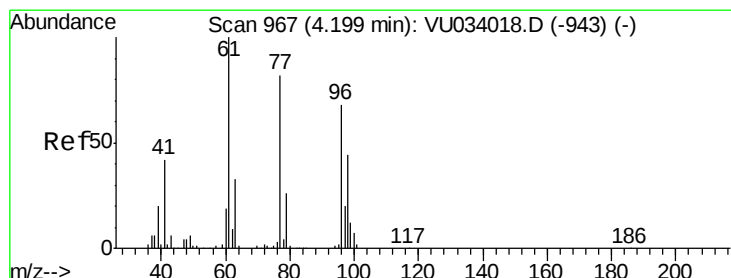
4.25

4.30

4.35



Time-->



#26

2,2-Dichloropropane

Concen: 39.654 ug/l

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU034050.D

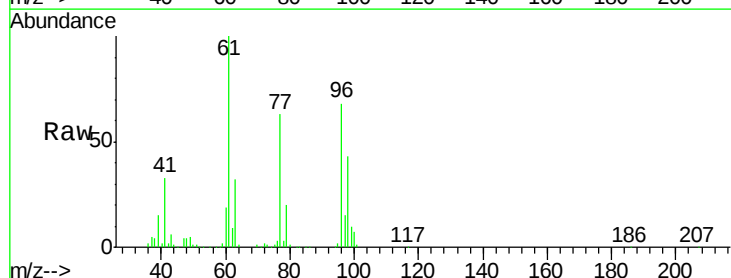
Acq: 29 Aug 2019 01:50

Tgt Ion: 77 Resp: 278741

Ion Ratio Lower Upper

77 100

97 23.9 11.6 34.7



Abundance Ion 76.90 (76.60 to 77.60): VU034018.D (-943) (-)

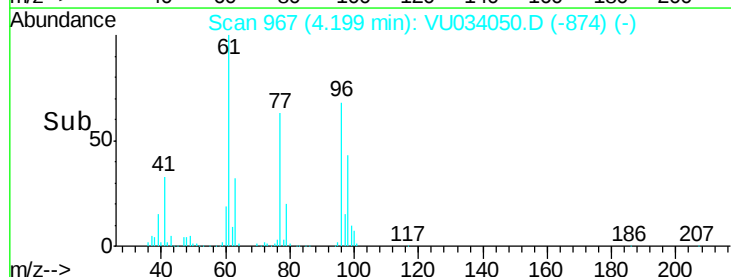
Ion 96.90 (96.60 to 97.60): VU034018.D (-943) (-)

4.20

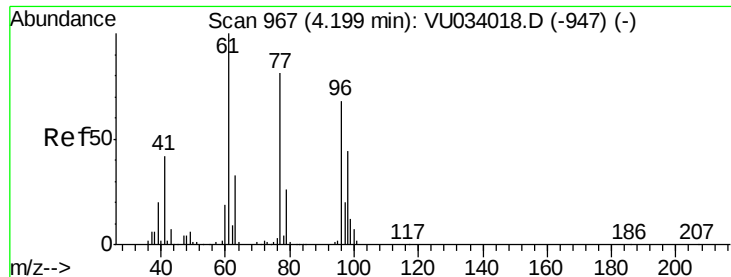
4.10

4.20

4.30



Time-->



#27

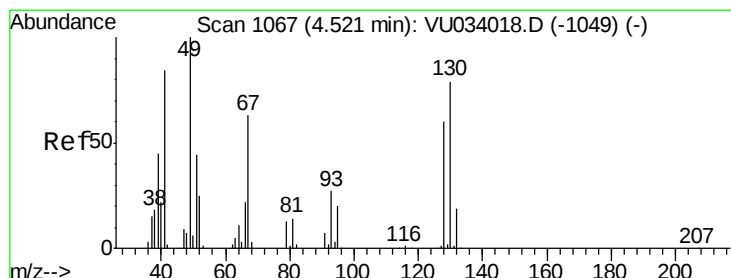
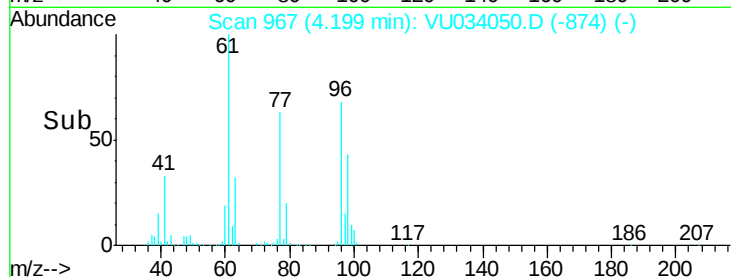
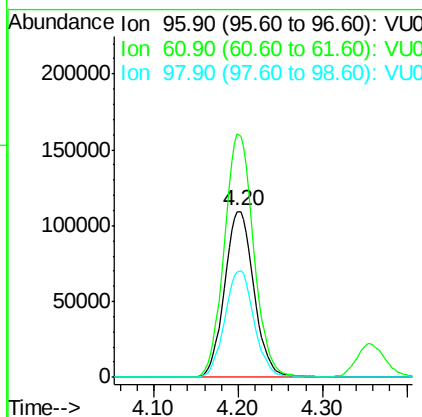
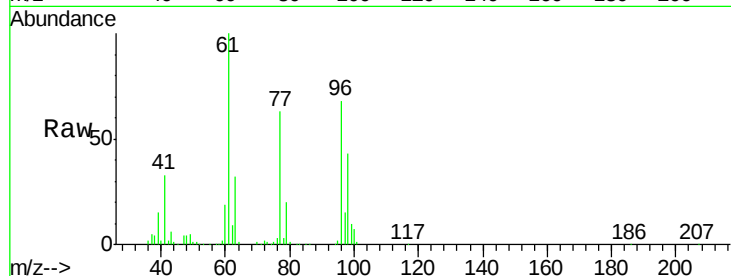
cis-1,2-Dichloroethene
Concen: 51.197 ug/l
RT: 4.20 min Scan# 967
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	264871		
61	147.1	0.0	303.0	
98	64.0	0.0	129.2	

Manual Integrations
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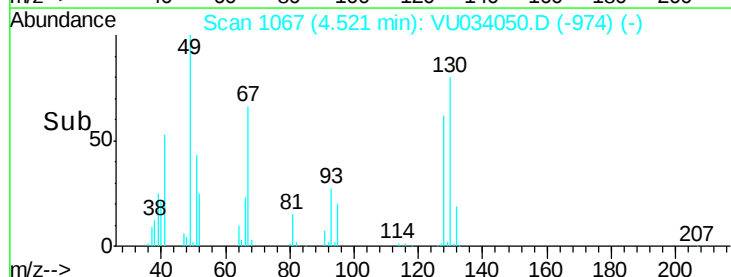
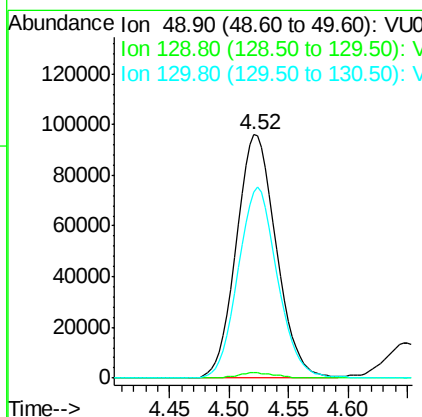
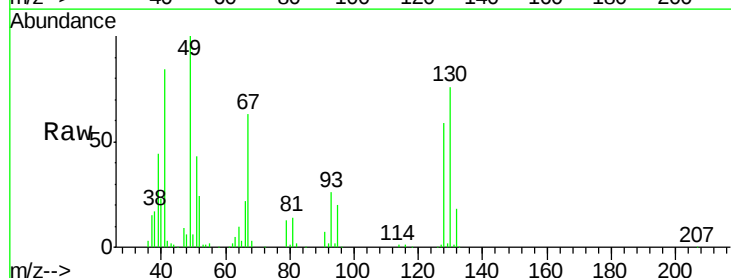
MMDadoda
8/29/2019 8:47:46 AM

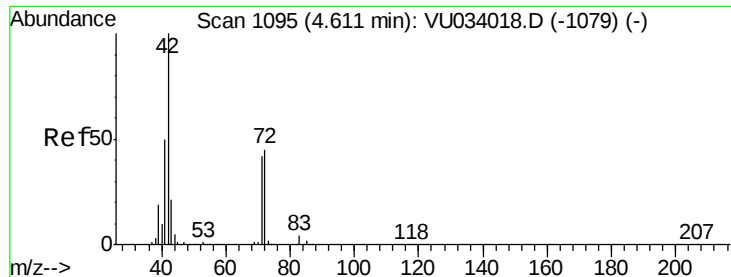


#28

Bromochloromethane
Concen: 52.570 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	223745		
129	2.0	0.0	3.6	
130	77.3	62.8	94.2	





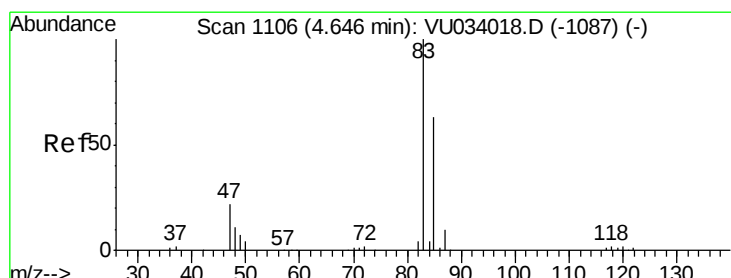
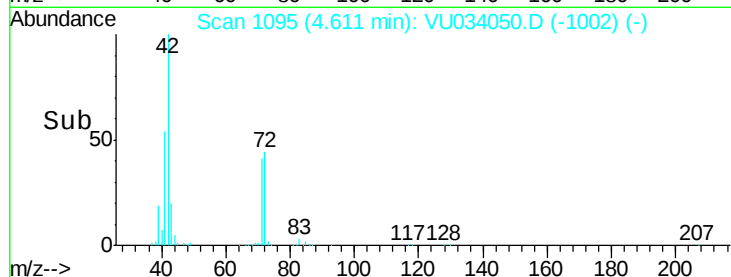
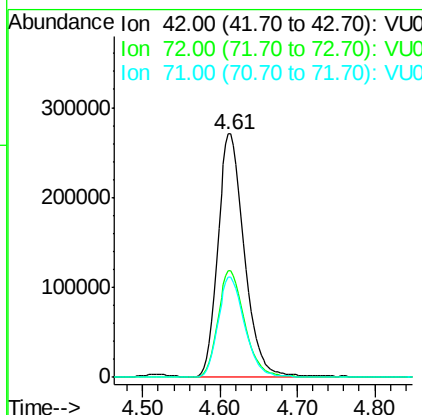
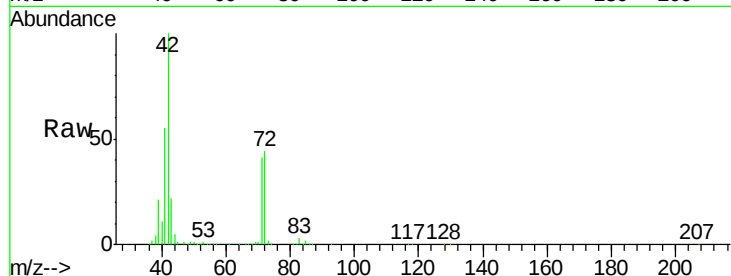
#29
Tetrahydrofuran
Concen: 270.608 ug/l
RT: 4.61 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.3	35.8	53.6
71	41.9	34.0	51.0

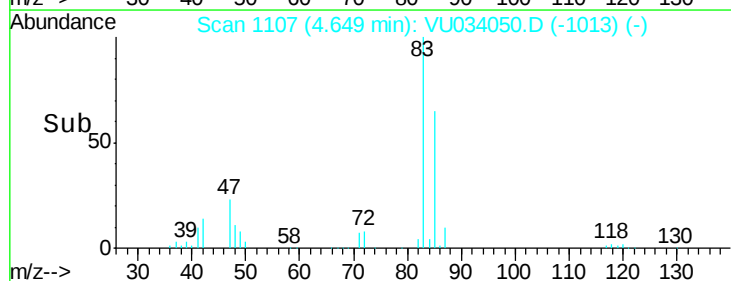
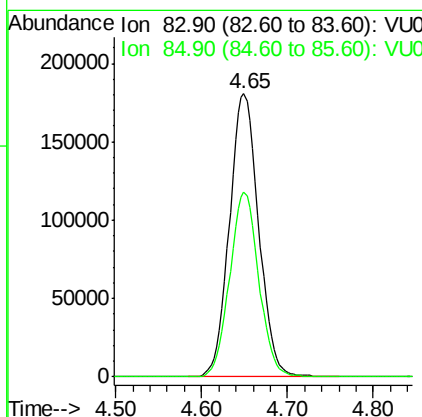
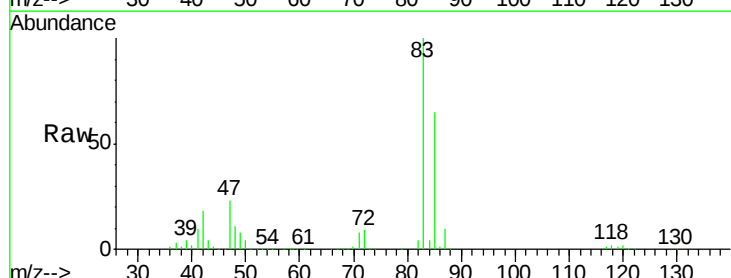
Manual Integrations
APPROVED

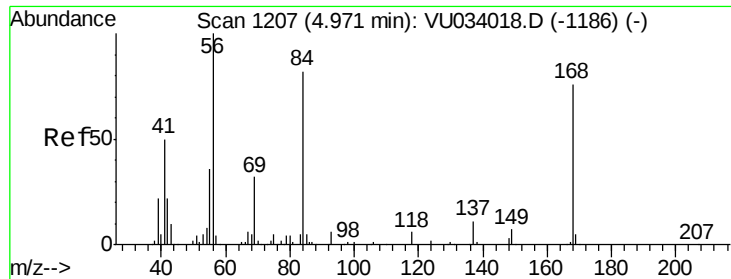
MMDadoda
8/29/2019 8:47:46 AM



#30
Chloroform
Concen: 49.478 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	50.7	76.1





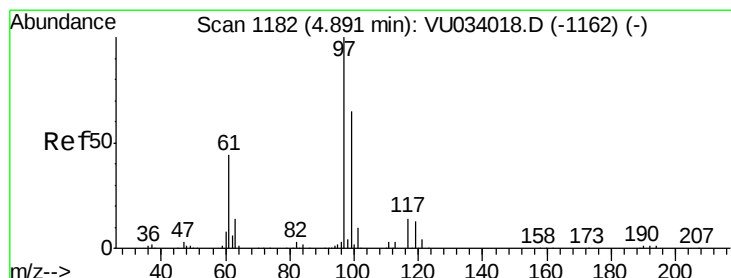
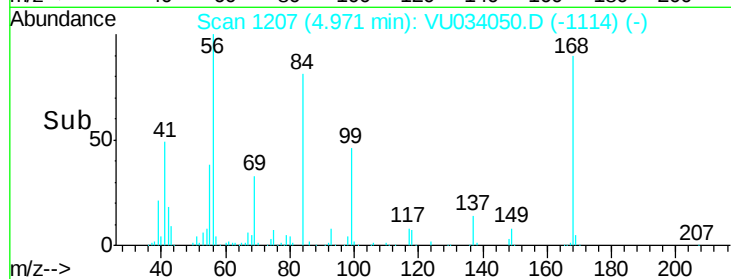
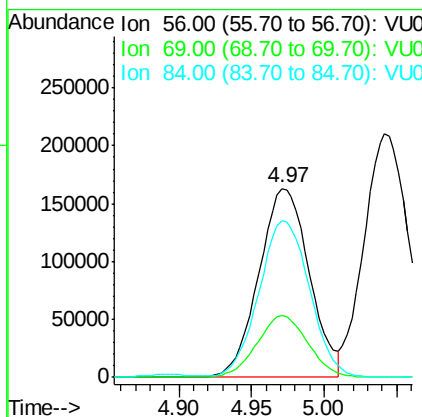
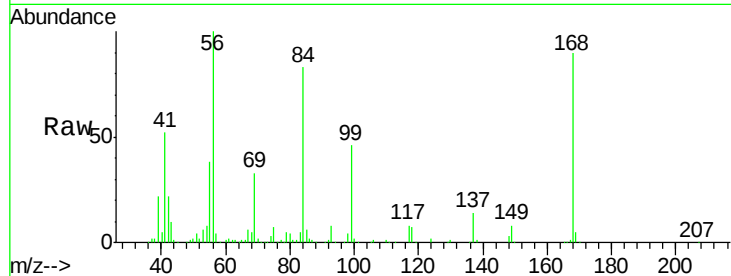
#31
Cyclohexane
Concen: 48.517 ug/l
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.4	38.0
84	81.8	65.8	98.8

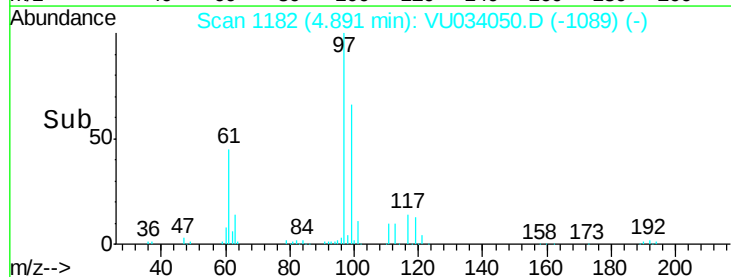
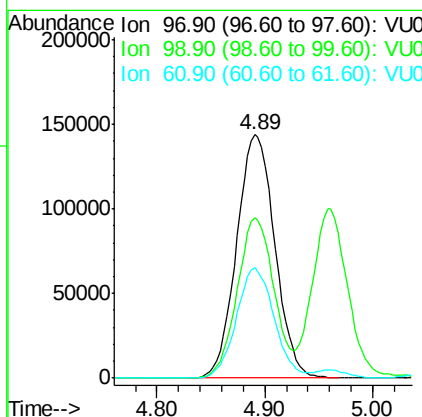
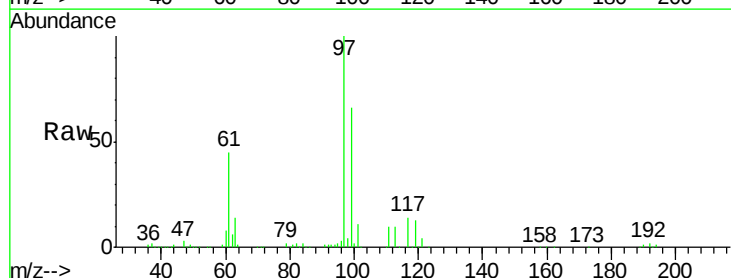
Manual Integrations
APPROVED

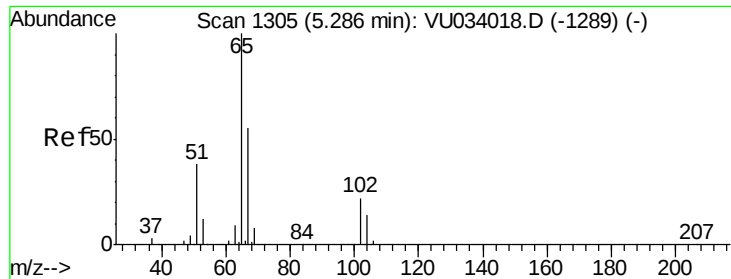
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#32
1,1,1-Trichloroethane
Concen: 50.199 ug/l
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.8	77.6
61	44.8	35.3	52.9





#33

1,2-Dichloroethane-d4

Concen: 51.797 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 281569

Ion Ratio Lower Upper

65 100

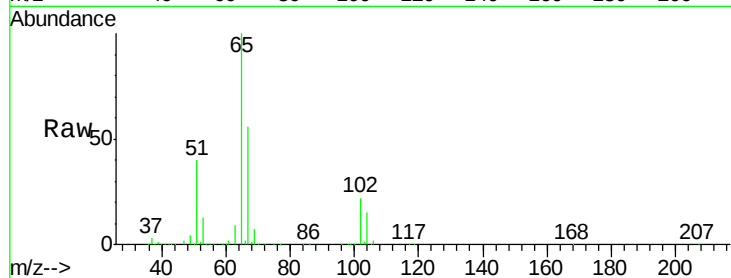
67 55.4 0.0 110.6

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VU034050.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034050.D (-1212) (-)

5.29

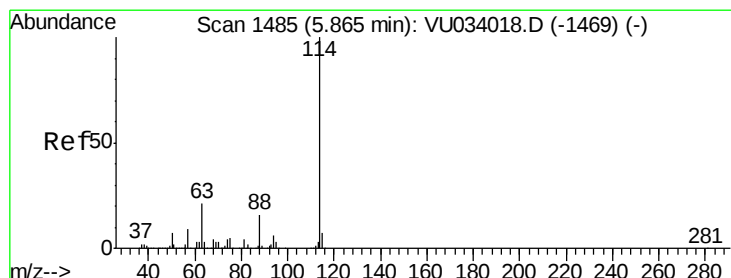
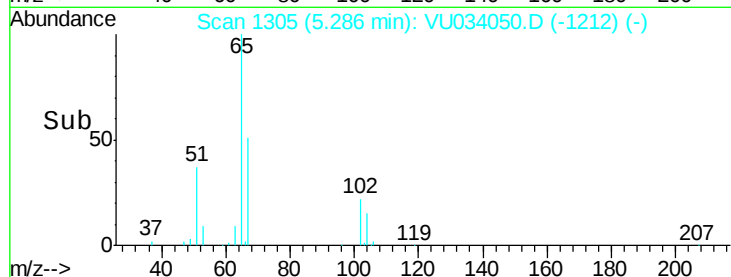
150000

100000

50000

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: VU034050.D

Acq: 29 Aug 2019 01:50

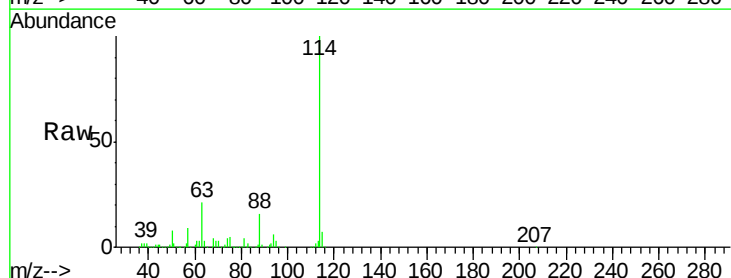
Tgt Ion: 114 Resp: 691209

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.0

88 15.8 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VU034050.D (-1392) (-)

Ion 63.00 (62.70 to 63.70): VU034050.D (-1392) (-)

Ion 87.90 (87.60 to 88.60): VU034050.D (-1392) (-)

5.86

400000

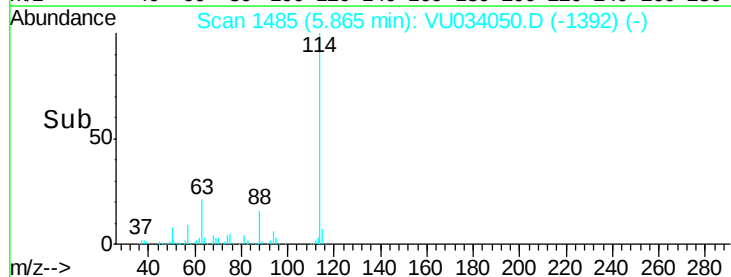
300000

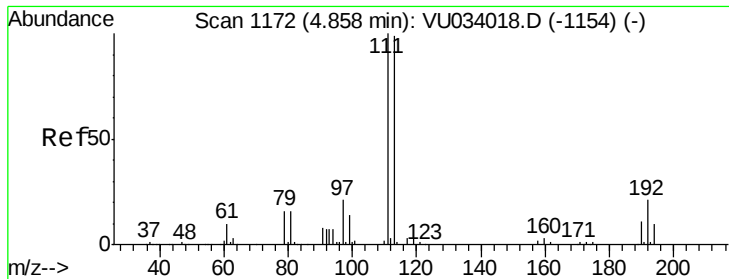
200000

100000

0

Time-->





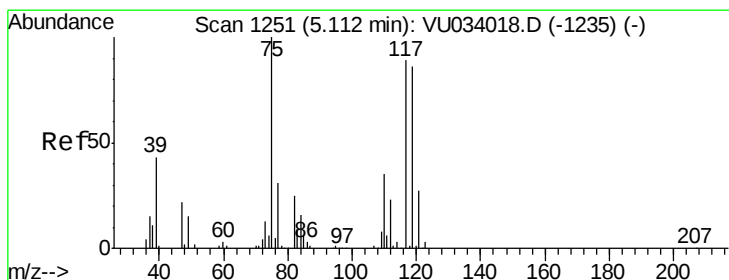
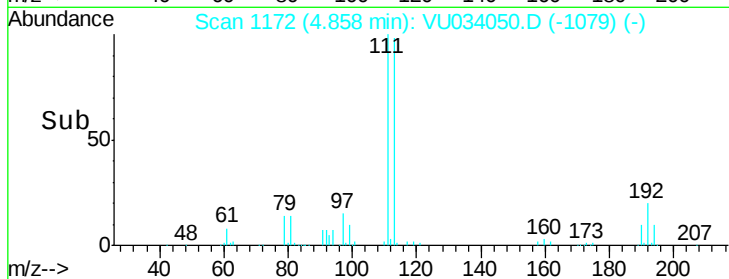
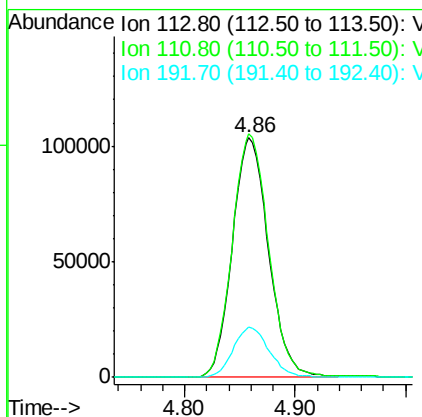
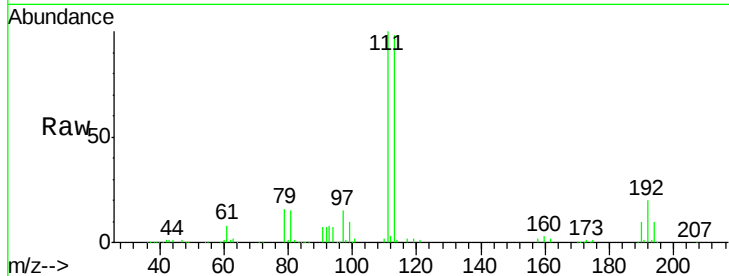
#35
 Dibromofluoromethane
 Concen: 49.145 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	235607		
111	102.2	81.7	122.5	
192	20.9	17.1	25.7	

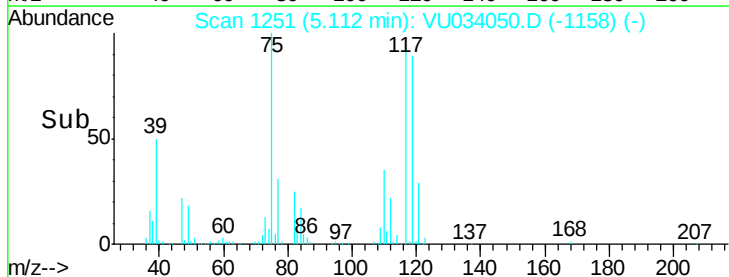
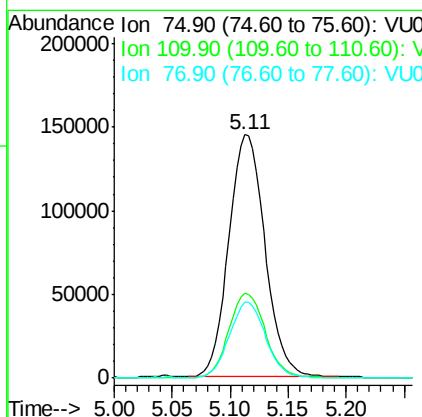
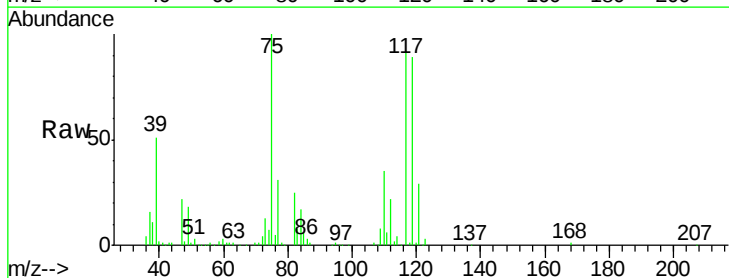
Manual Integrations
 APPROVED

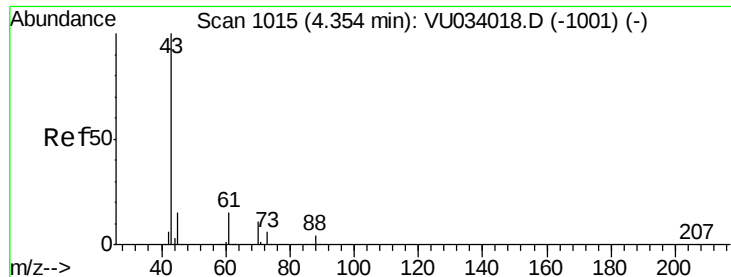
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#36
 1,1-Dichloropropene
 Concen: 47.839 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	312771		
110	35.8	17.8	53.5	
77	30.9	25.0	37.4	





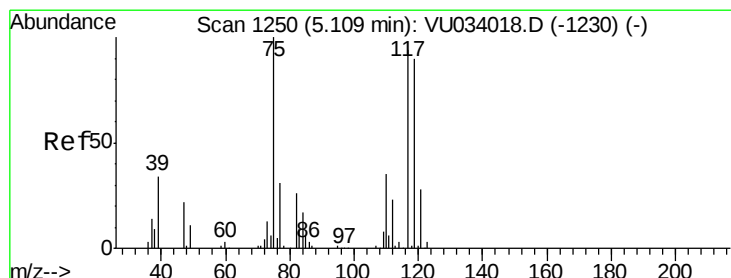
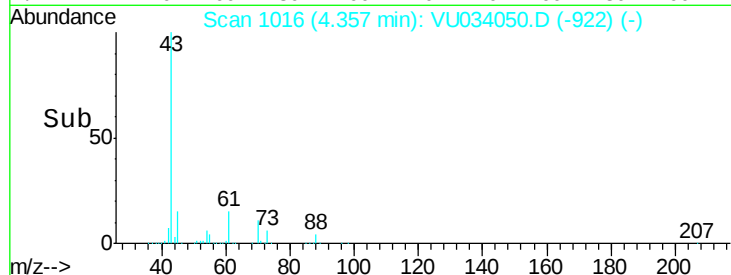
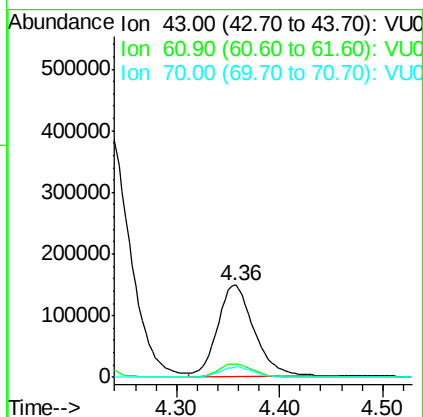
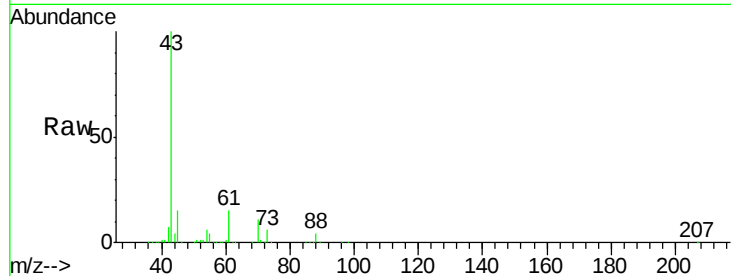
#37
Ethyl Acetate
Concen: 49.564 ug/l
RT: 4.36 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.5	17.3
70	11.0	8.6	12.8

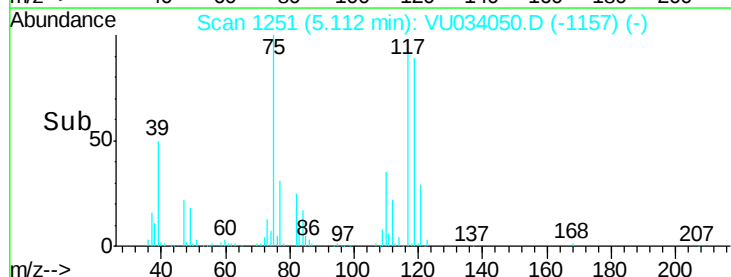
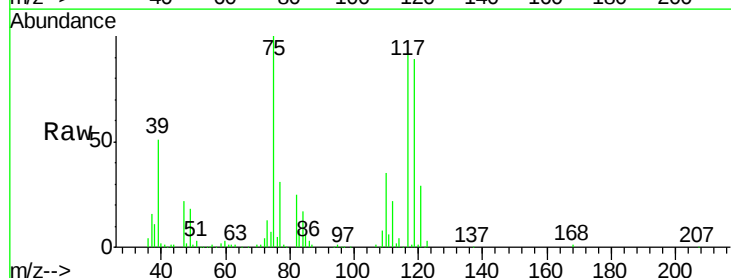
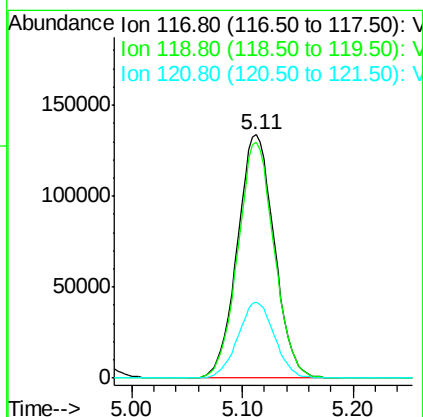
Manual Integrations
APPROVED

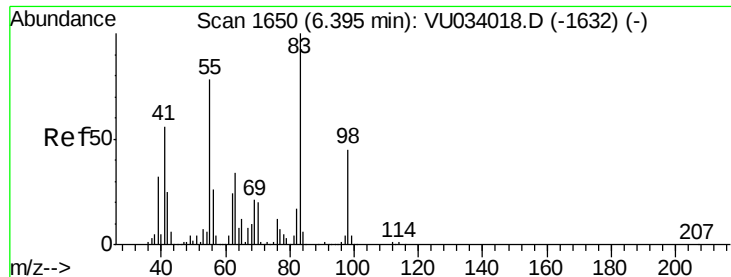
MMDadoda
8/29/2019 8:47:46 AM



#38
Carbon Tetrachloride
Concen: 48.860 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.0	115.4
121	31.2	23.9	35.9





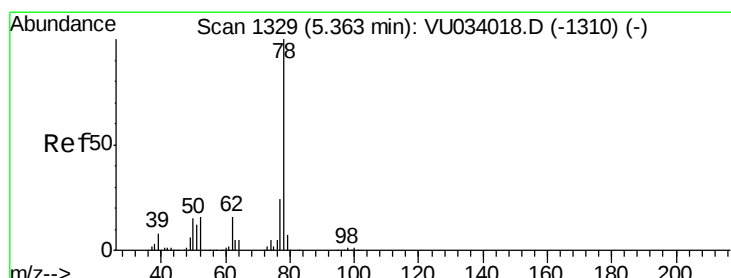
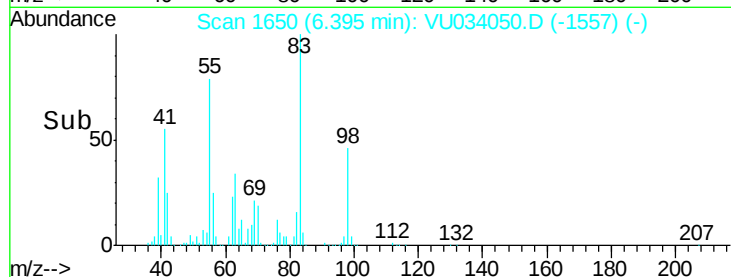
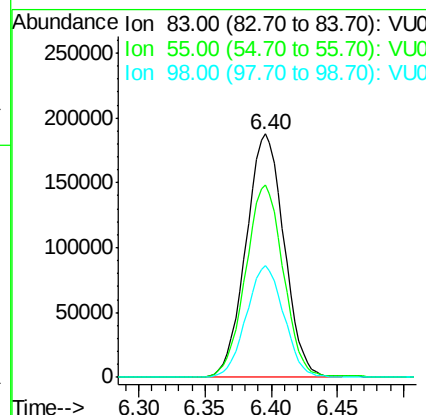
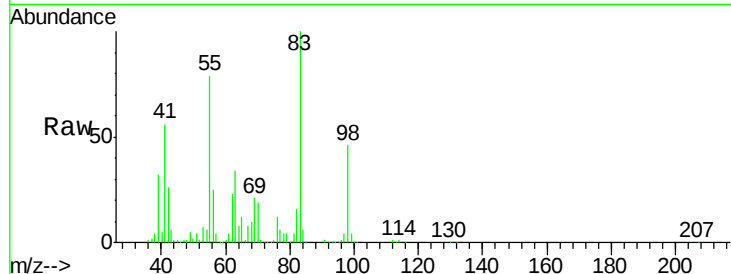
#39
Methylvlcvclohexane
Concen: 48.765 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.9	62.3	93.5
98	45.7	36.2	54.2

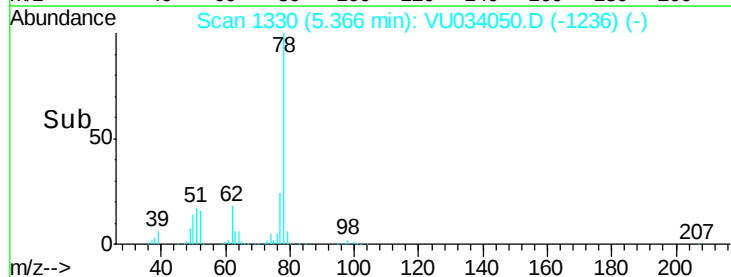
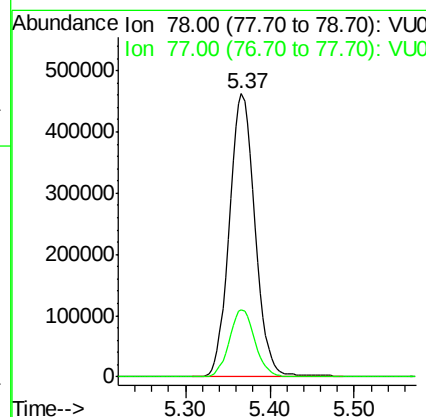
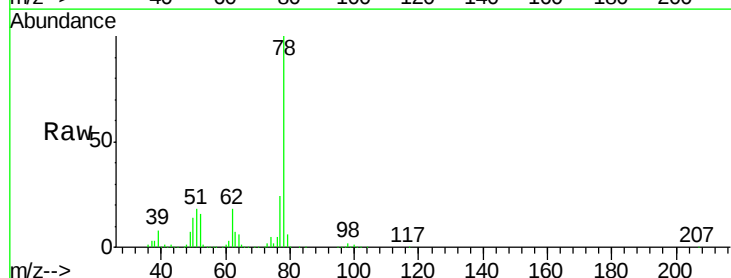
Manual Integrations
APPROVED

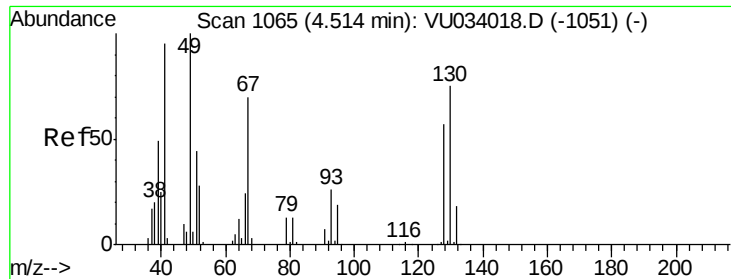
MMDadoda
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#40
Benzene
Concen: 49.492 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.6





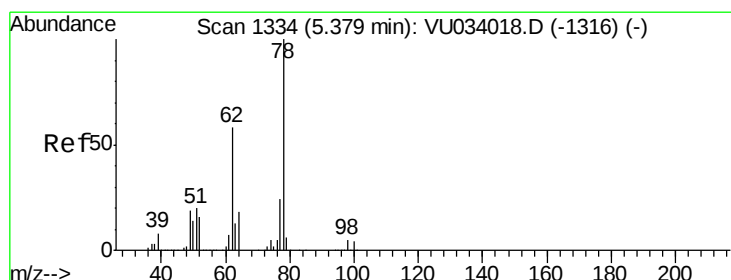
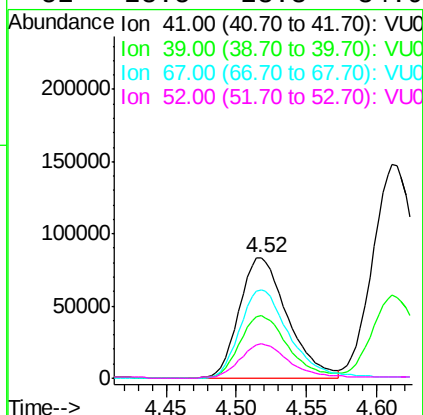
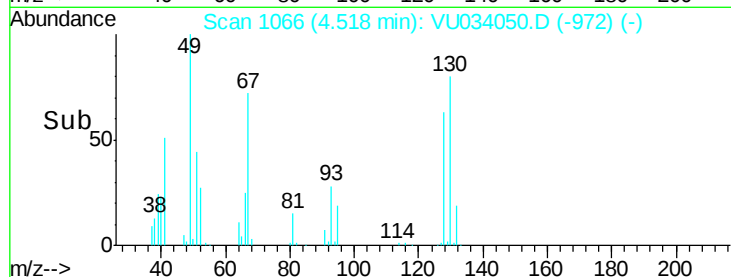
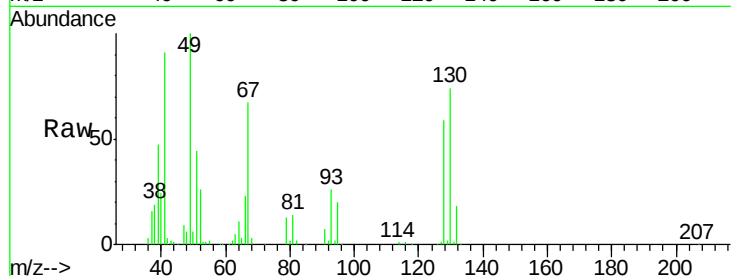
#41
Methacrylonitrile
Concen: 52.813 ug/l
RT: 4.52 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.0	42.1	63.1	
67	76.8	61.0	91.4	
52	28.5	23.3	34.9	

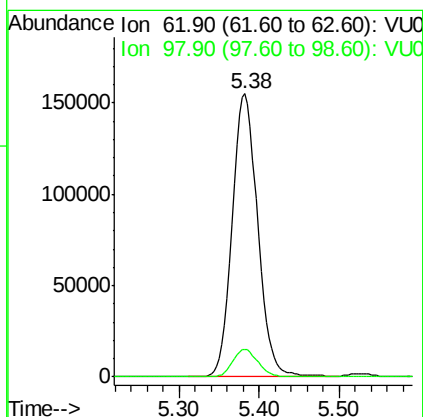
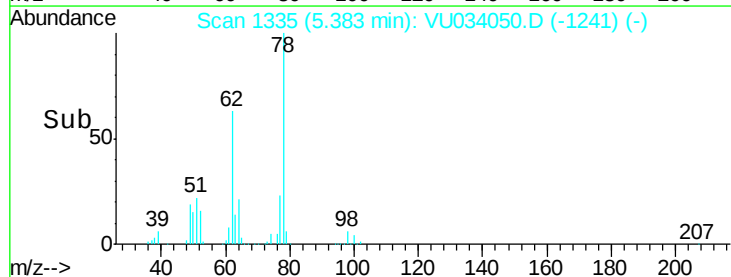
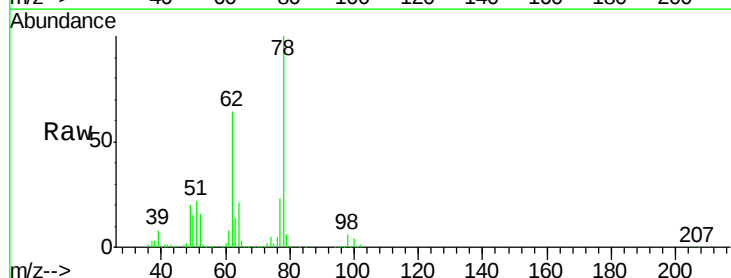
Manual Integrations
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#42
1,2-Dichloroethane
Concen: 49.163 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.6	0.0	18.2	





#43

Isopropyl Acetate

Concen: 50.400 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

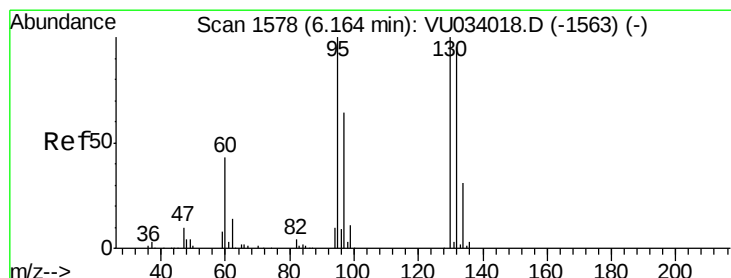
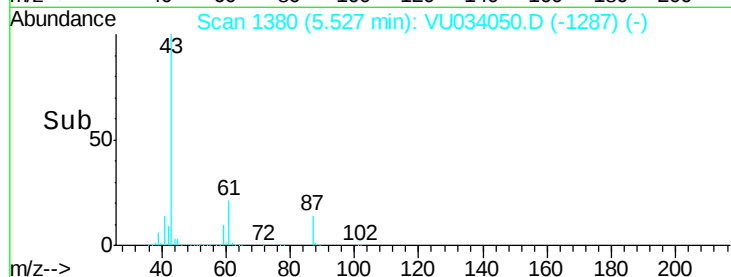
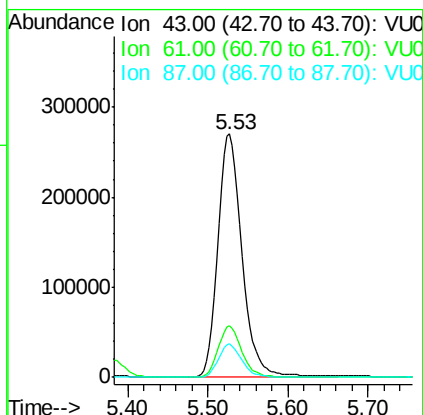
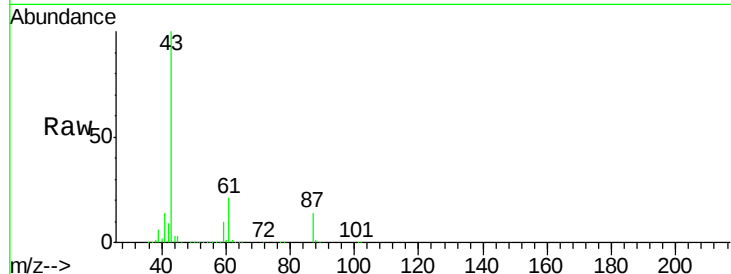
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	561377
Ion	Ratio	Lower	Upper
43	100		
61	20.8	17.2	25.8
87	13.4	10.8	16.2

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#44

Trichloroethene

Concen: 50.222 ug/l

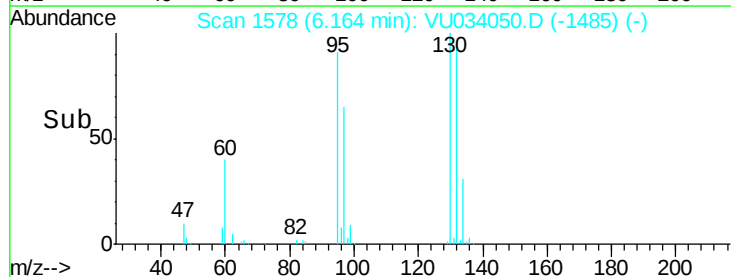
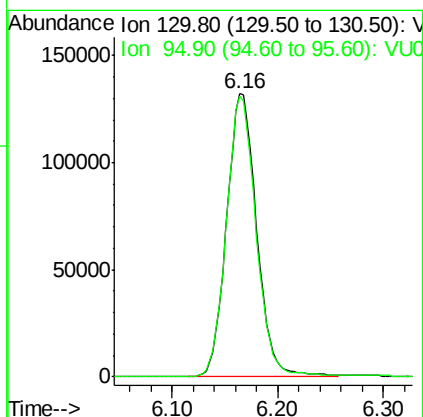
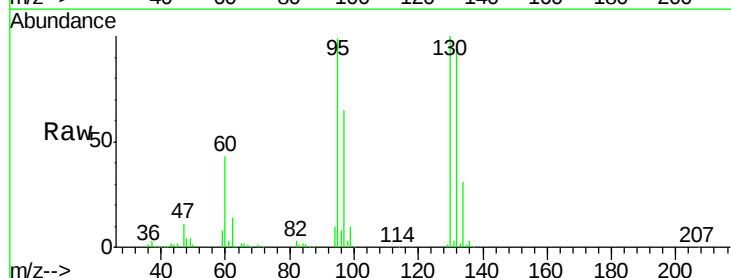
RT: 6.16 min Scan# 1578

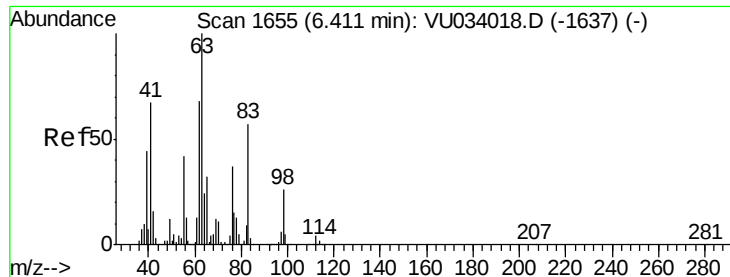
Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Tgt Ion:	130	Resp:	260877
Ion	Ratio	Lower	Upper
130	100		
95	99.0	0.0	199.6





#45

1,2-Dichloropropane

Concen: 50.210 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 273400

Ion Ratio Lower Upper

63 100

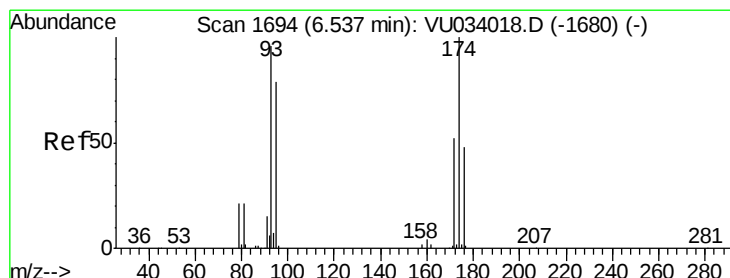
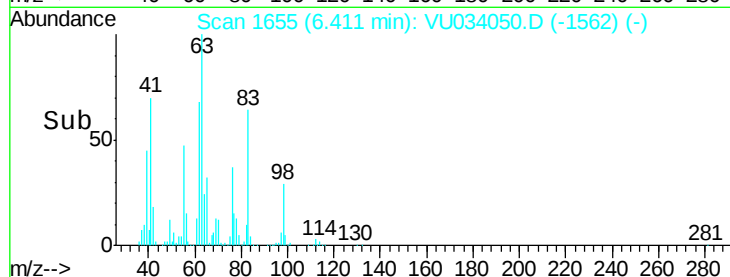
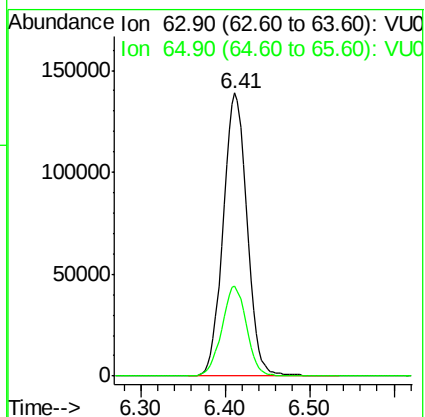
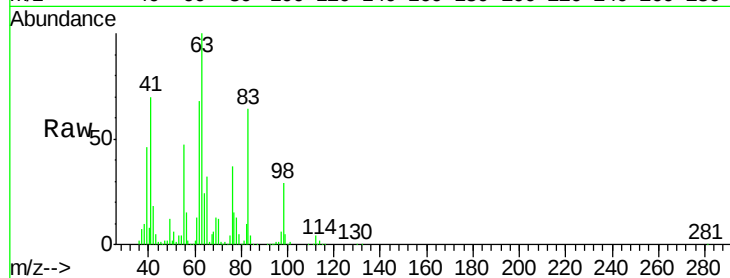
65 31.7 25.4 38.2

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#46

Dibromomethane

Concen: 48.687 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

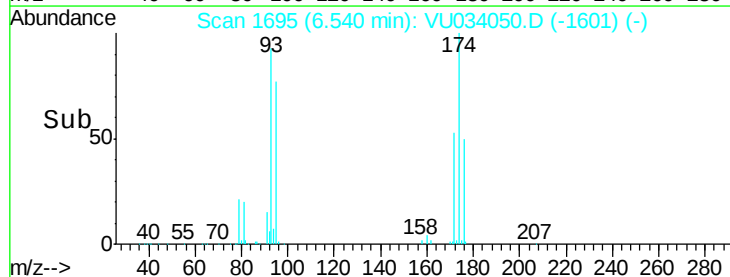
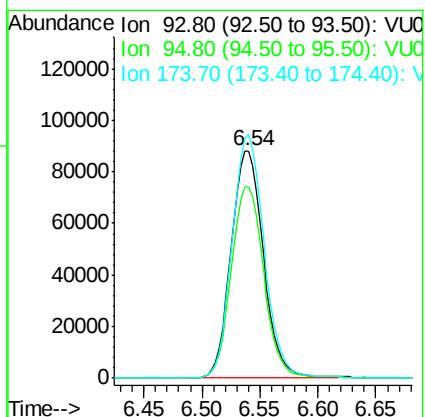
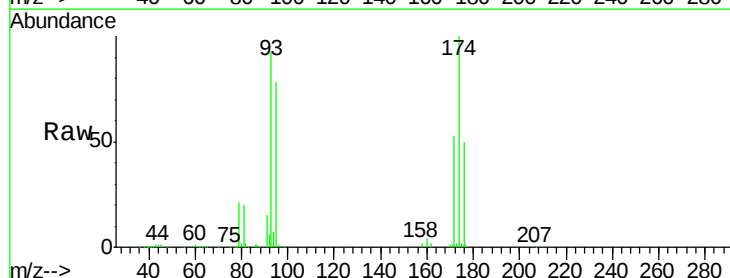
Tgt Ion: 93 Resp: 170799

Ion Ratio Lower Upper

93 100

95 84.1 66.7 100.1

174 106.1 84.9 127.3





#47

Bromodichloromethane

Concen: 49.202 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

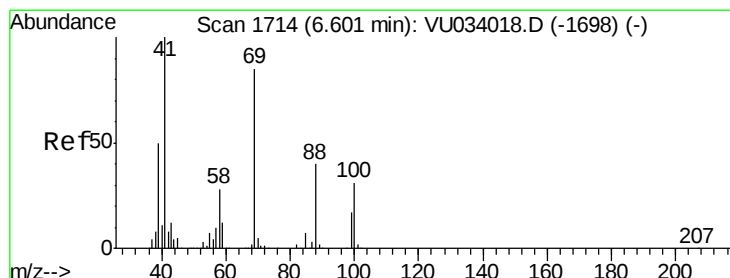
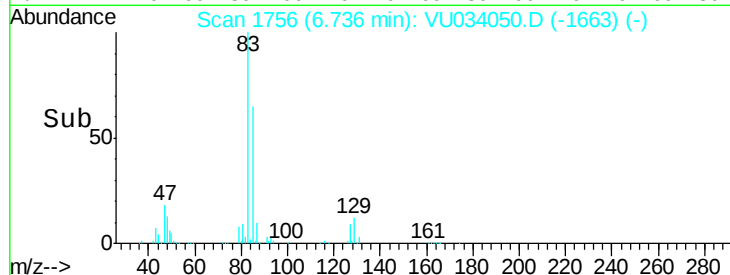
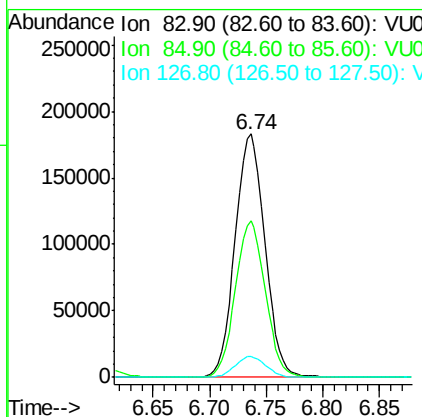
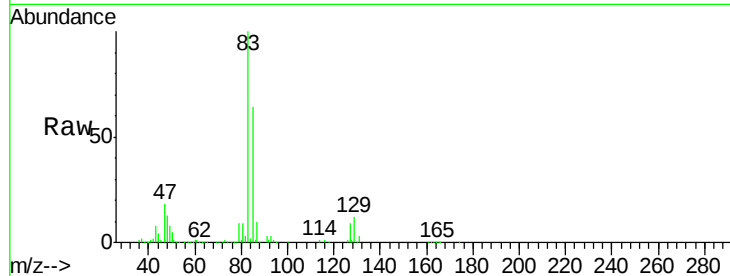
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	337703
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.2	76.8
127	8.5	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.744 ug/l

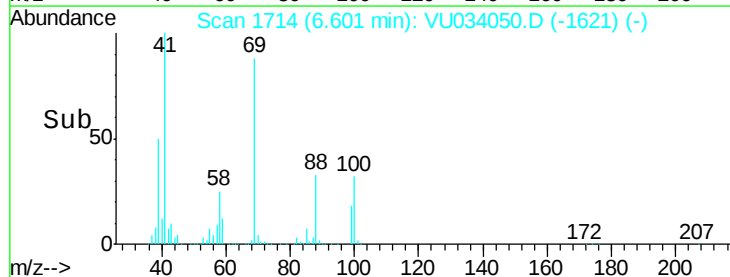
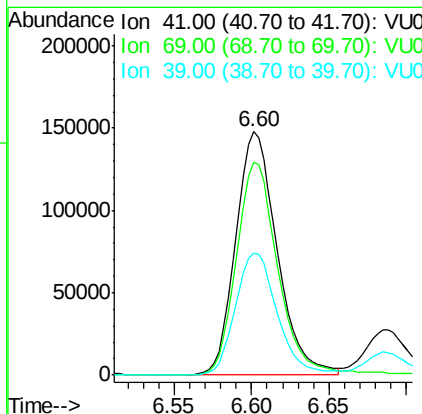
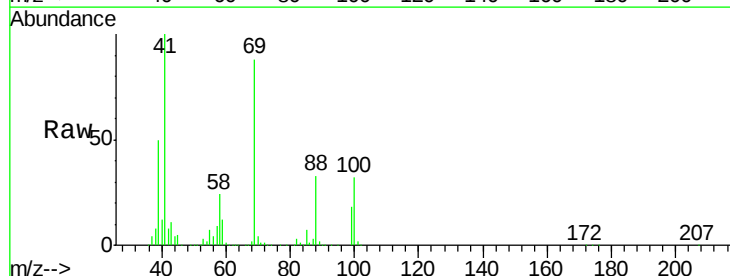
RT: 6.60 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Tgt Ion:	41	Resp:	272737
Ion	Ratio	Lower	Upper
41	100		
69	89.4	69.5	104.3
39	50.9	40.3	60.5





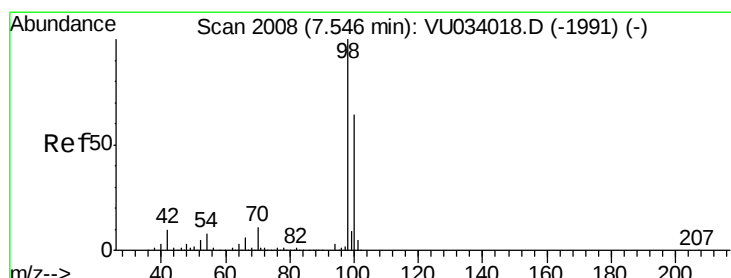
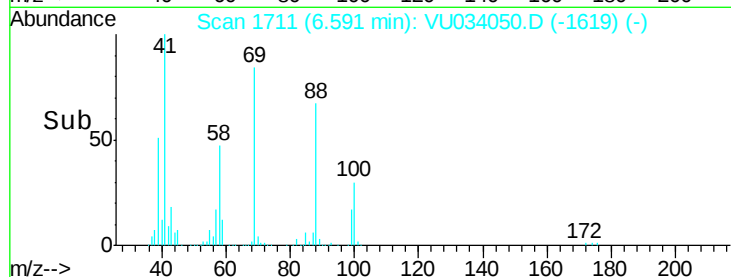
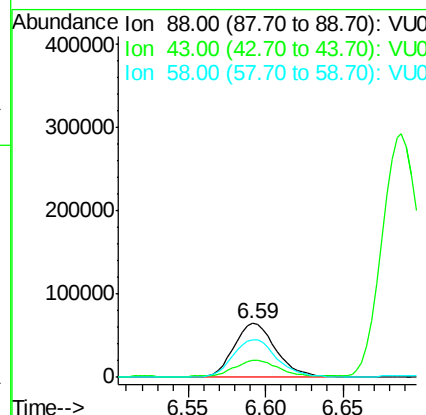
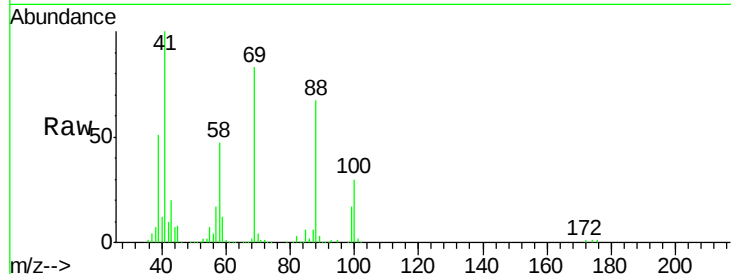
#49
 1,4-Dioxane
 Concen: 899.679 ug/l
 RT: 6.59 min Scan# 1711
 Delta R.T. -0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.0	24.8	37.2
58	74.1	59.3	88.9

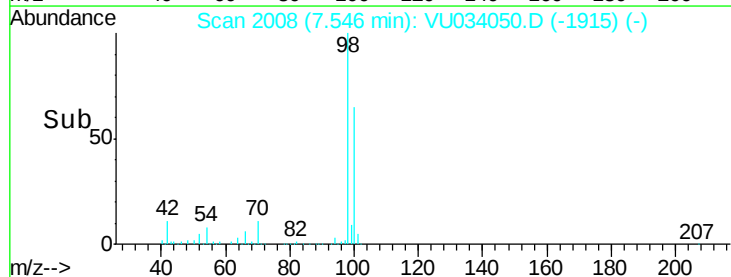
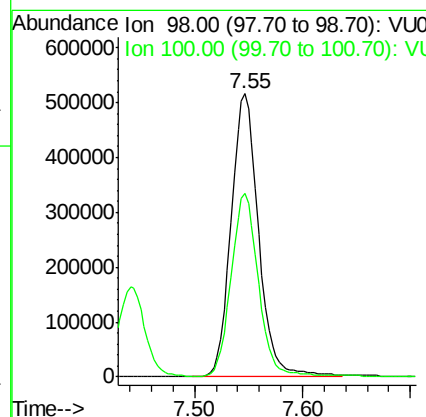
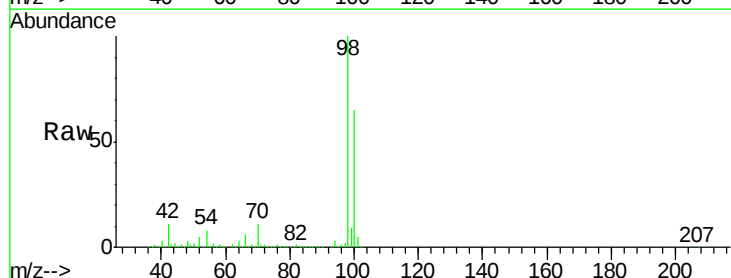
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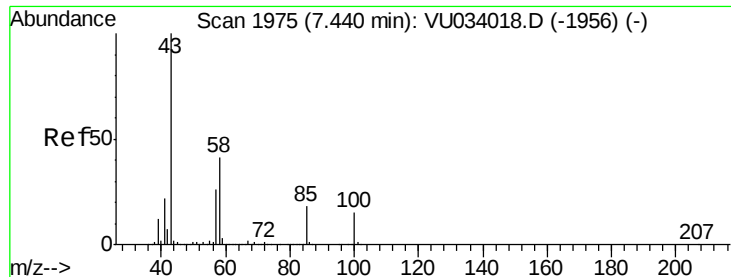
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 8/29/2019 8:47:46 AM



#50
 Toluene-d8
 Concen: 51.186 ug/l
 RT: 7.55 min Scan# 2008
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	50.3	75.5





#51

4-Methyl-2-Pentanone

Concen: 247.204 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1901537

Ion Ratio Lower Upper

43 100

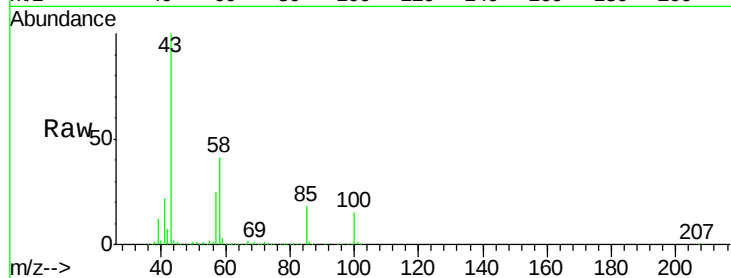
58 40.3 32.2 48.4

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Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1956) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-1956) (-)

7.44

1200000

1000000

800000

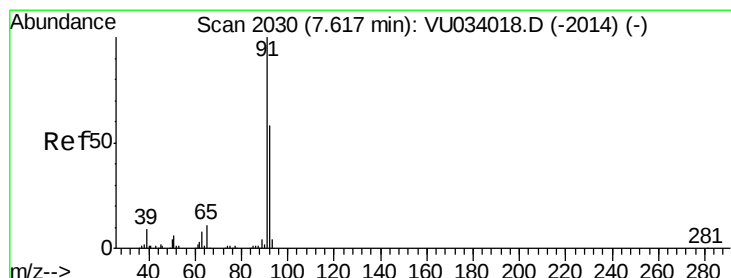
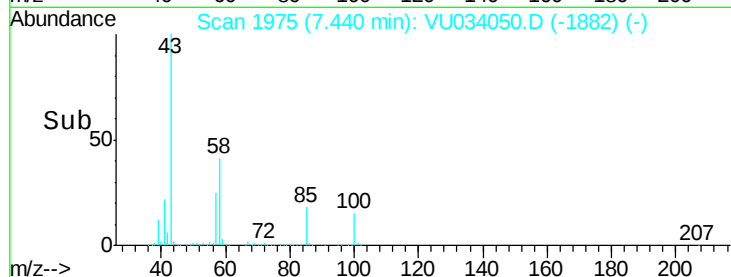
600000

400000

200000

0

Time--> 7.30 7.40 7.50



#52

Toluene

Concen: 50.222 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034050.D

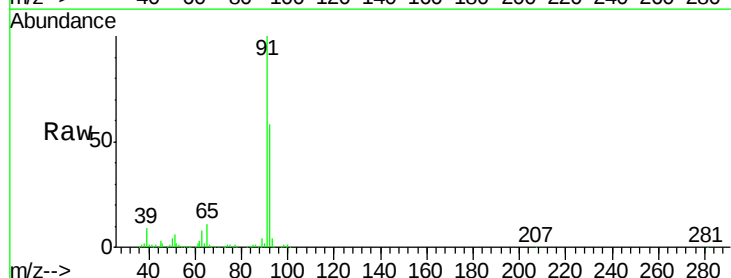
Acq: 29 Aug 2019 01:50

Tgt Ion: 92 Resp: 611980

Ion Ratio Lower Upper

92 100

91 173.4 138.3 207.5



Abundance Ion 92.00 (91.70 to 92.70): VU034018.D (-1914) (-)

Ion 91.00 (90.70 to 91.70): VU034018.D (-1914) (-)

7.62

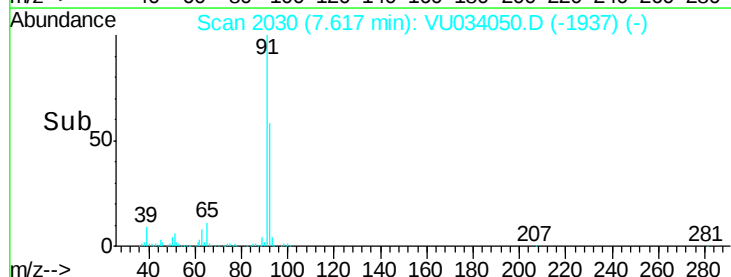
600000

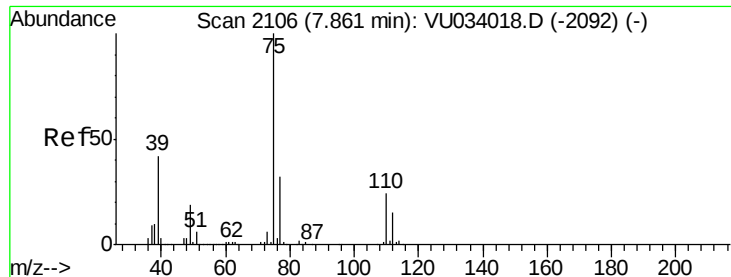
400000

200000

0

Time--> 7.50 7.60 7.70





#53

t-1,3-Dichloropropene

Concen: 47.032 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 358187

Ion Ratio Lower Upper

75 100

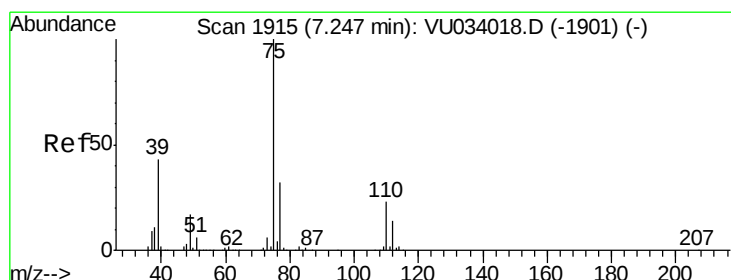
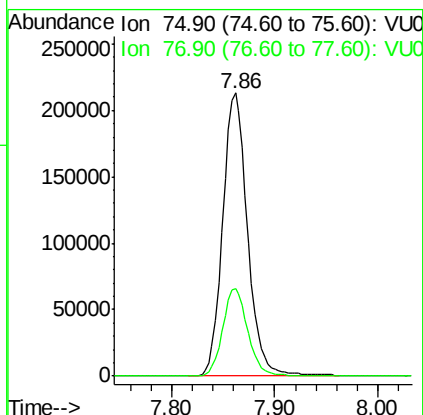
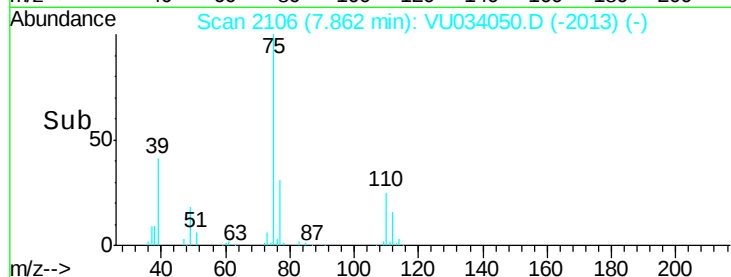
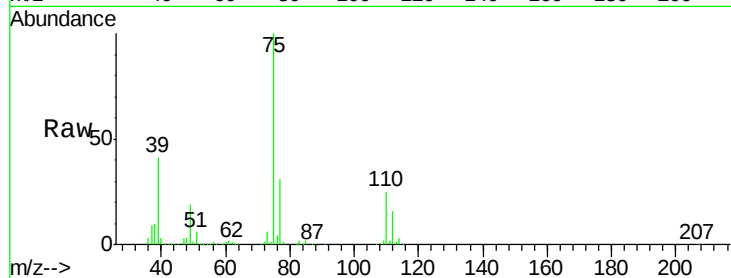
77 31.1 25.4 38.0

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#54

cis-1,3-Dichloropropene

Concen: 48.390 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

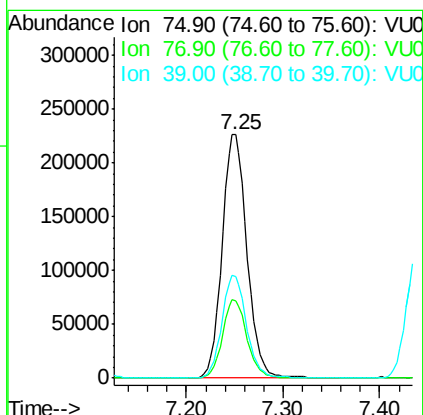
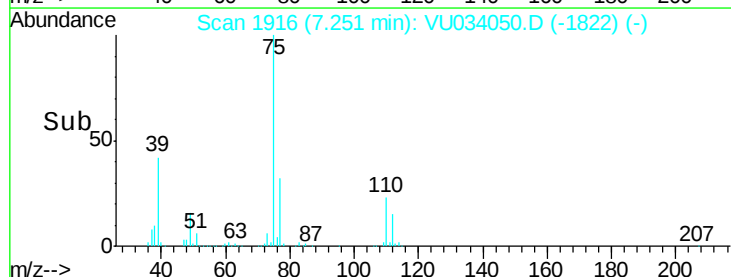
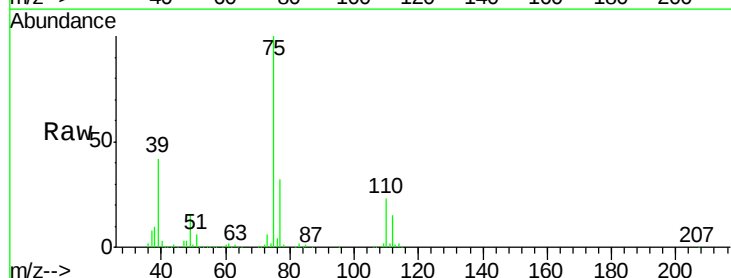
Tgt Ion: 75 Resp: 402618

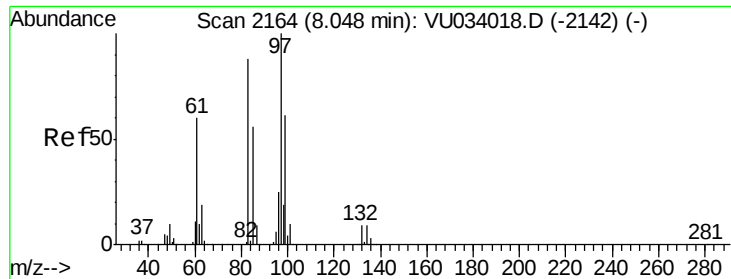
Ion Ratio Lower Upper

75 100

77 31.9 25.2 37.8

39 41.7 34.6 51.8





#55

1,1,2-Trichloroethane

Concen: 47.802 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

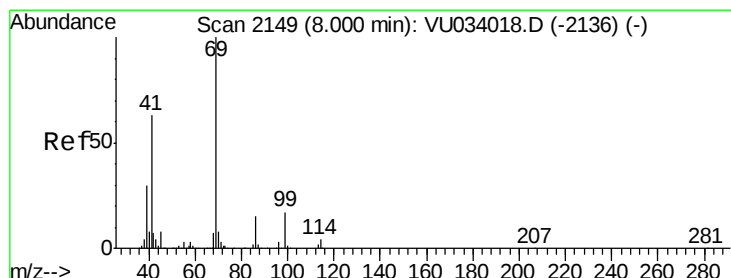
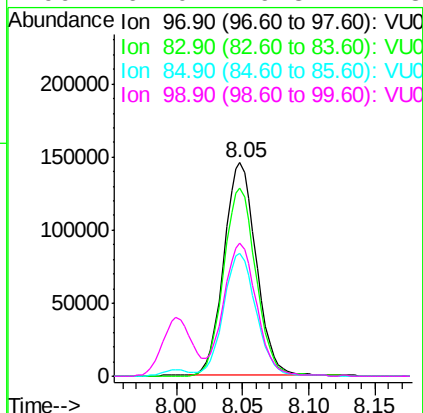
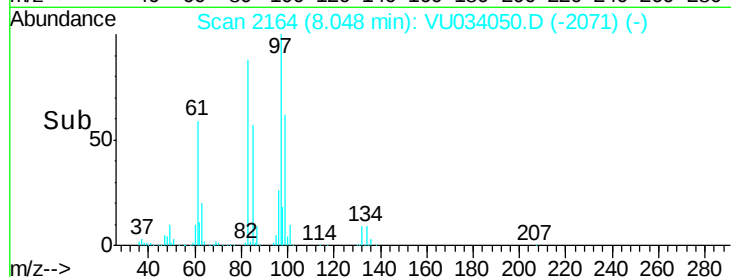
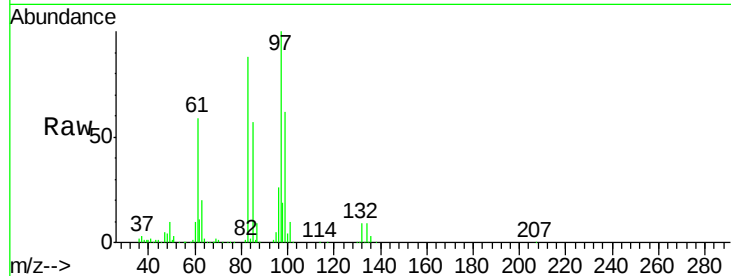
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	246388
Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.1	105.1
85	57.4	45.0	67.4
99	62.0	49.8	74.8

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#56

Ethyl methacrylate

Concen: 44.674 ug/l

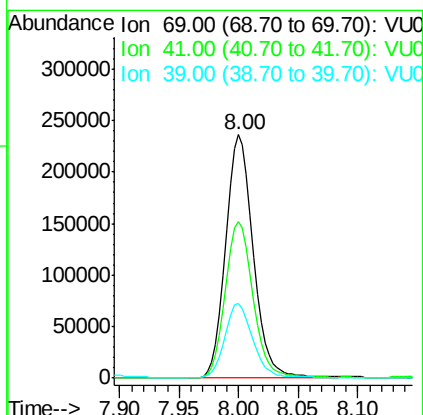
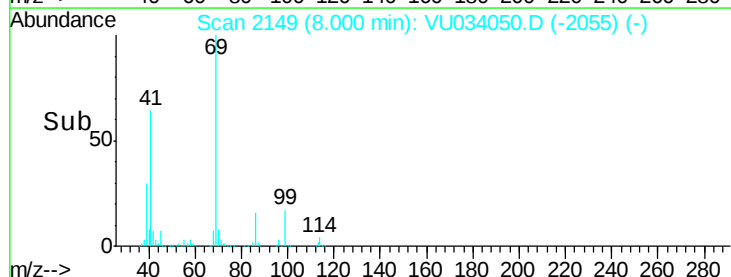
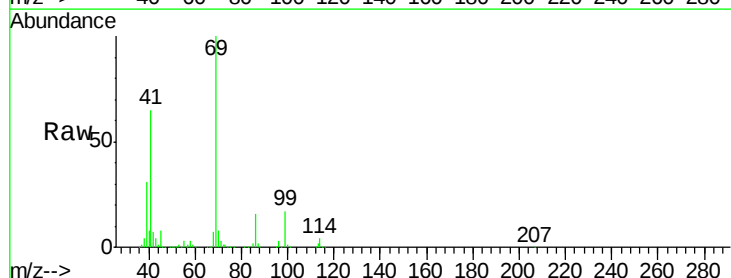
RT: 8.00 min Scan# 2149

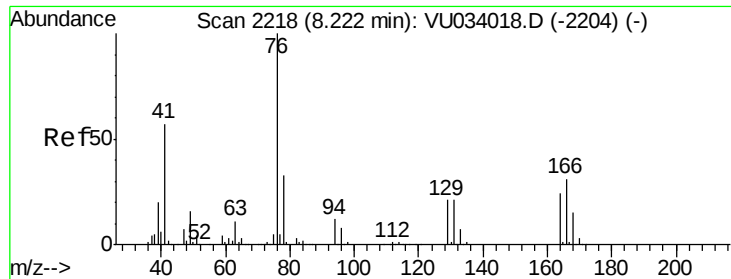
Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Tgt Ion:	69	Resp:	381045
Ion	Ratio	Lower	Upper
69	100		
41	64.4	50.7	76.1
39	30.8	24.2	36.2





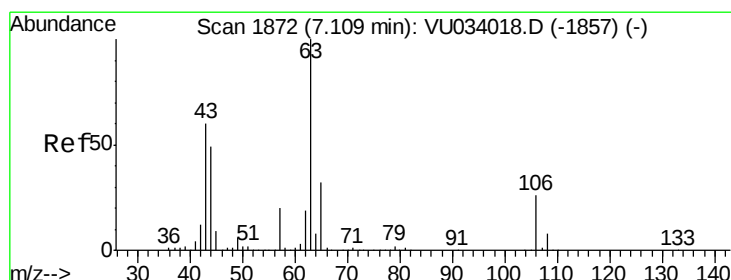
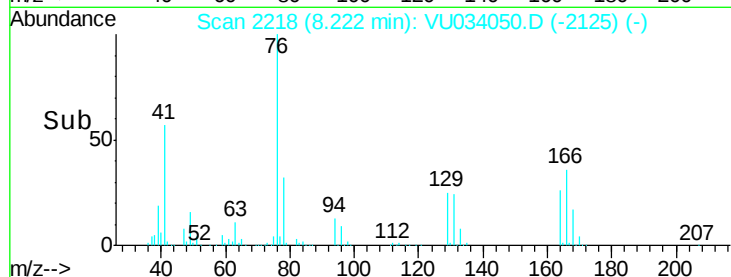
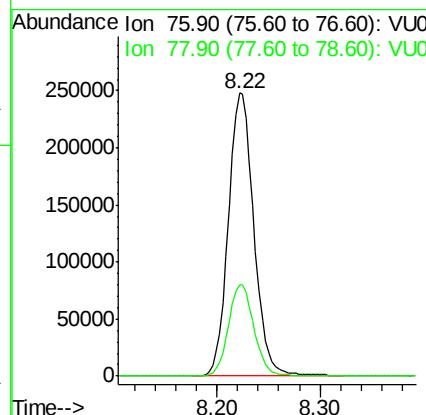
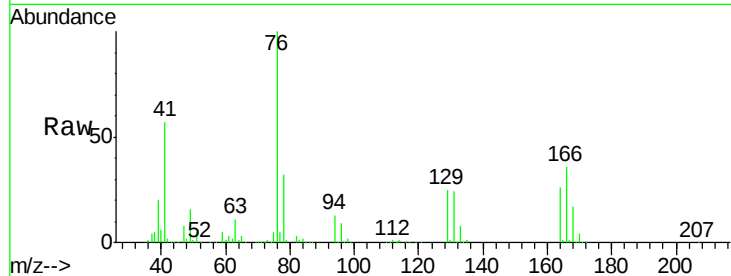
#57
 1,3-Dichloropropane
 Concen: 48.915 ug/l
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 428091
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.2 39.4

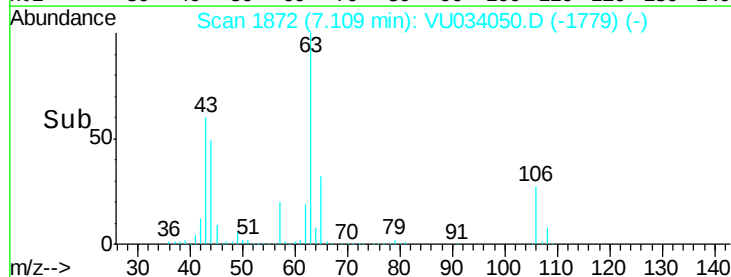
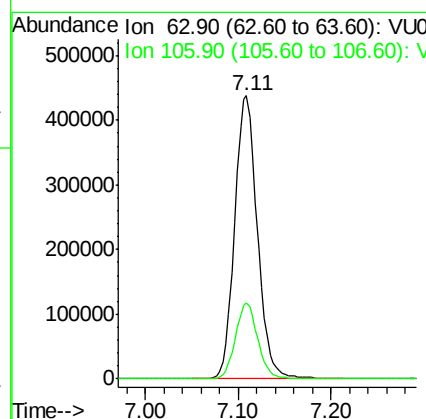
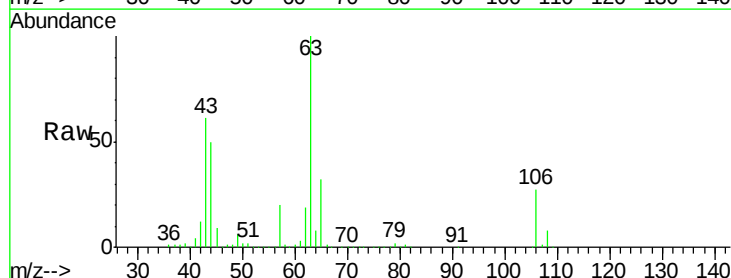
Manual Integrations
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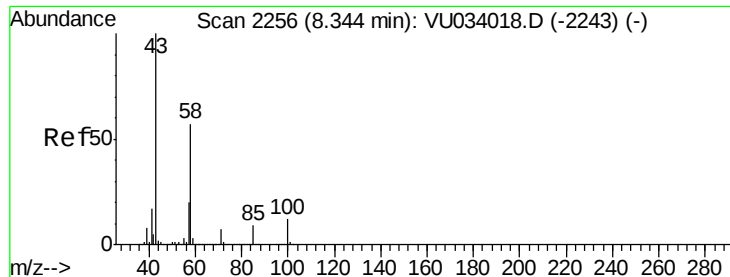
MMDadoda
 8/29/2019 8:47:46 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 260.486 ug/l
 RT: 7.11 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion: 63 Resp: 742782
 Ion Ratio Lower Upper
 63 100
 106 26.2 20.7 31.1





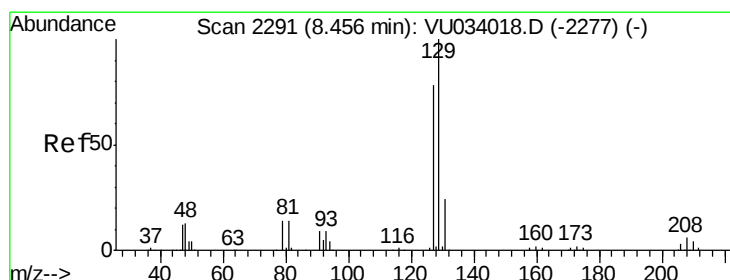
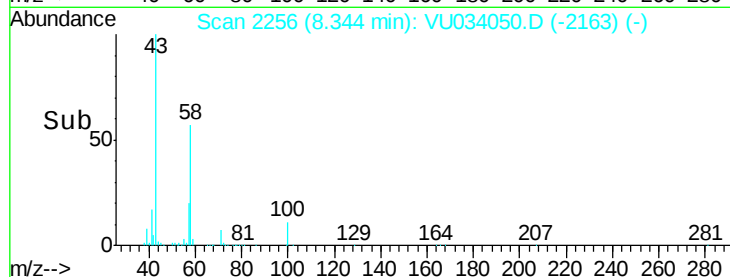
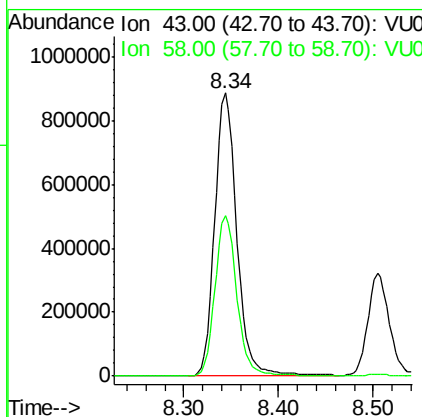
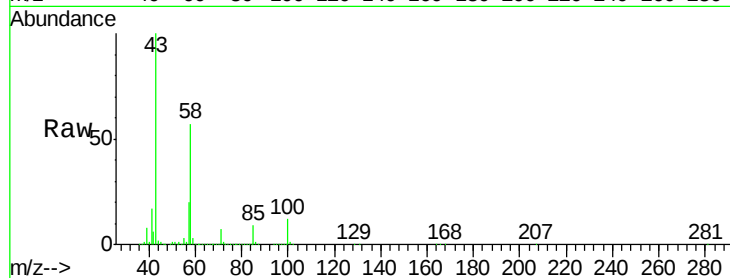
#59
2-Hexanone
Concen: 246.779 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1433021
Ion Ratio Lower Upper
43 100
58 56.9 28.4 85.3

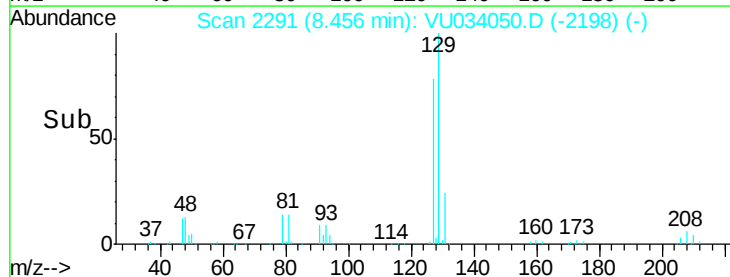
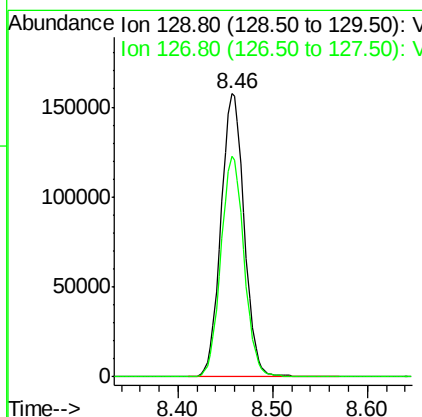
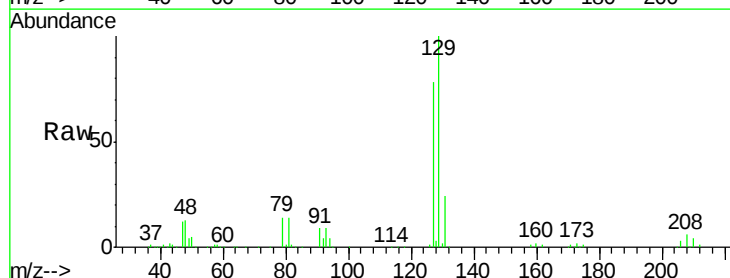
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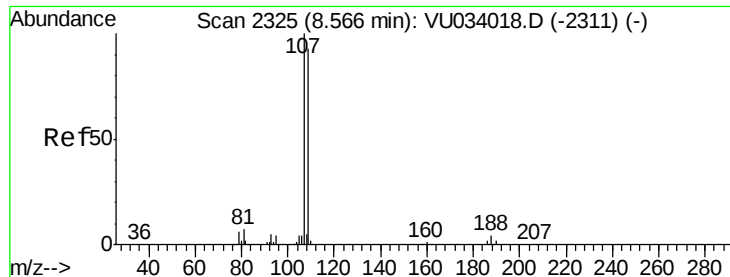
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#60
Dibromochloromethane
Concen: 48.710 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion: 129 Resp: 269505
Ion Ratio Lower Upper
129 100
127 77.8 39.0 116.9





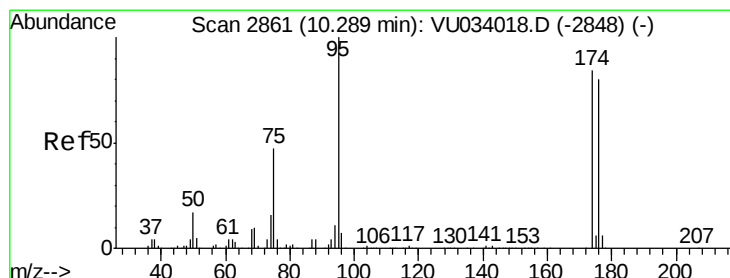
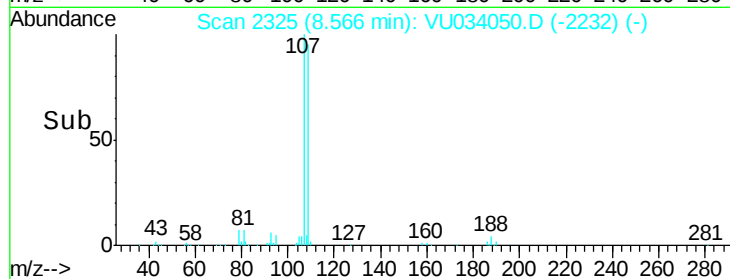
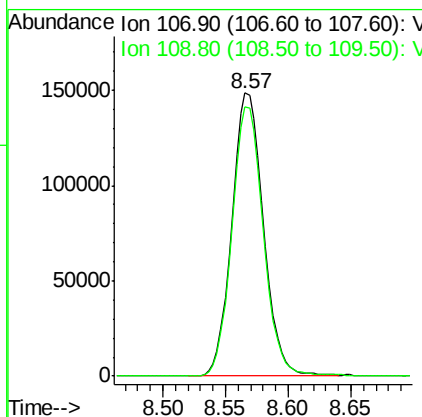
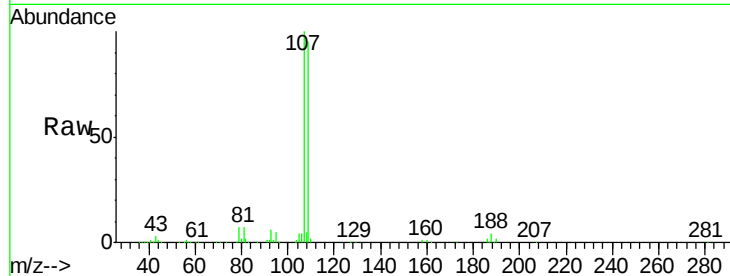
#61
 1,2-Dibromoethane
 Concen: 47.814 ug/l
 RT: 8.57 min Scan# 2325
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.3	75.2	112.8

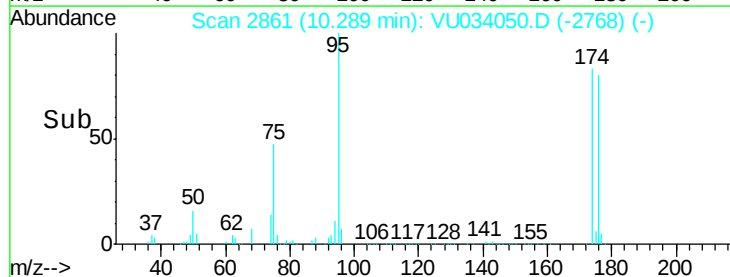
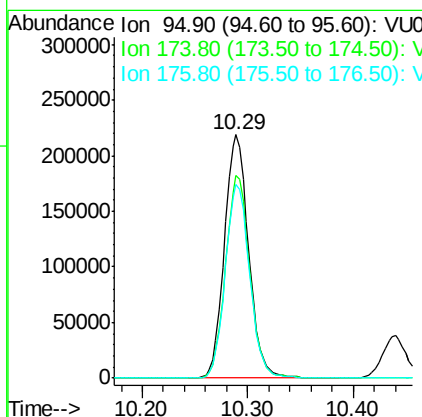
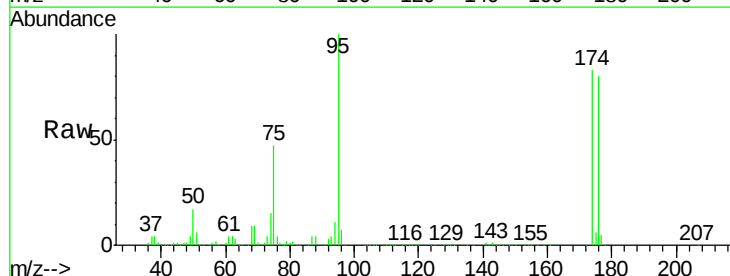
Manual Integrations
 APPROVED

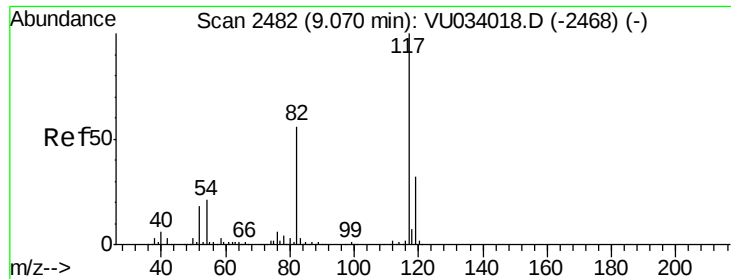
MMDadoda
 8/29/2019 8:47:46 AM



#62
 4-Bromofluorobenzene
 Concen: 49.685 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.2	0.0	168.8
176	80.2	0.0	161.8





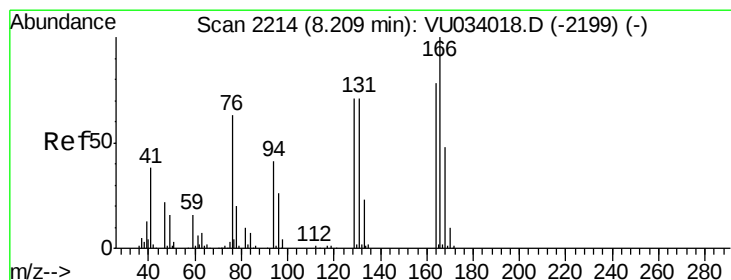
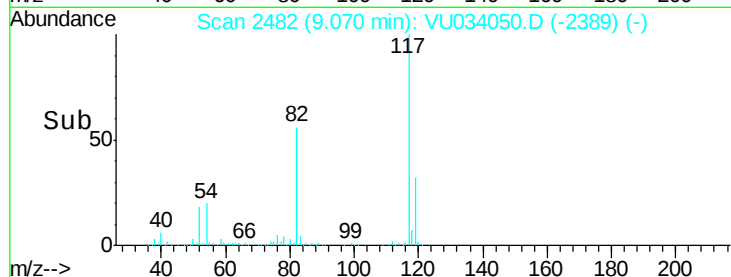
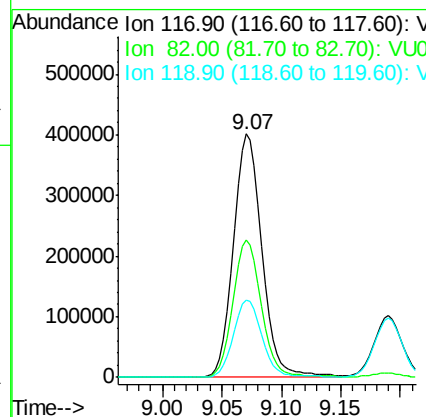
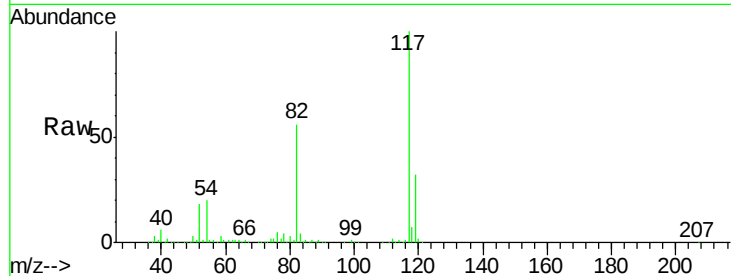
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100	669529		
82	56.4	45.1	67.7	
119	31.9	25.4	38.0	

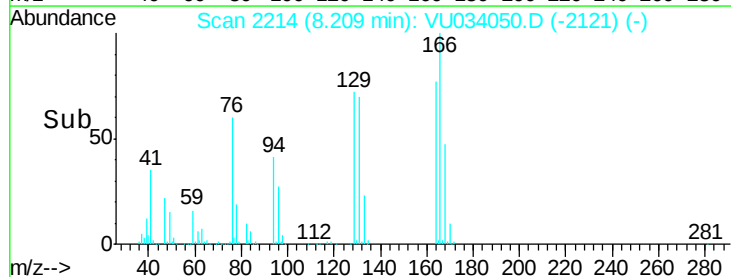
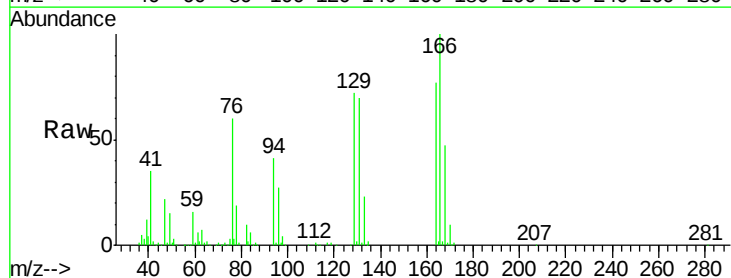
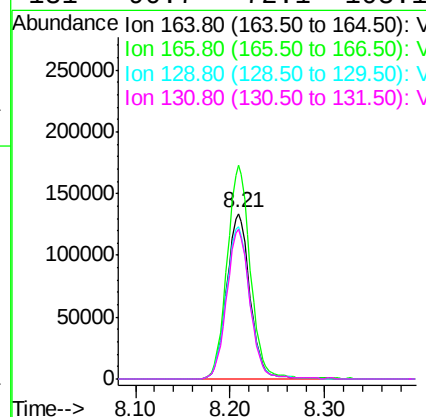
Manual Integrations
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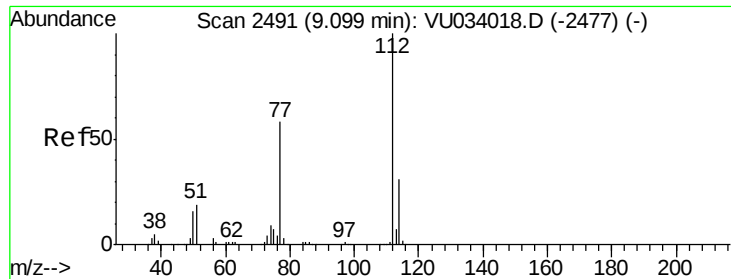
MMDadoda
8/29/2019 8:47:46 AM



#64
Tetrachloroethene
Concen: 51.073 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	229639		
166	129.0	102.2	153.2	
129	92.3	72.4	108.6	
131	90.7	72.1	108.1	





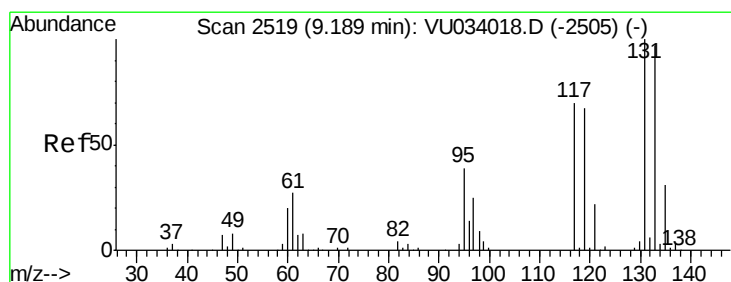
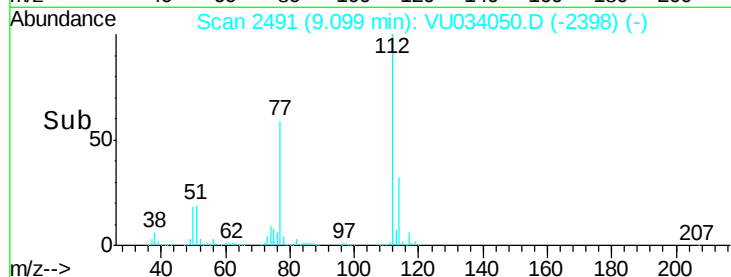
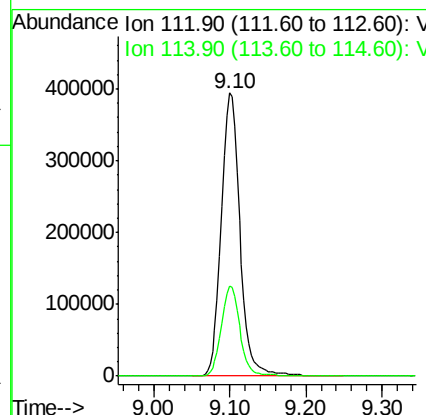
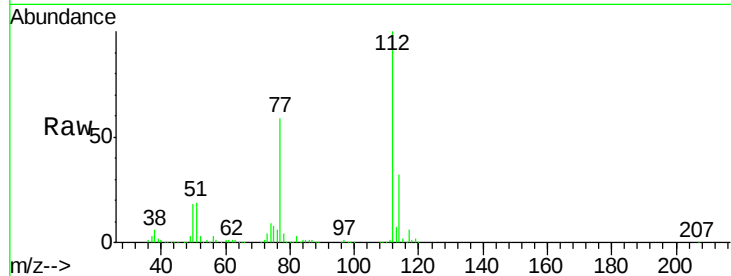
#65
Chlorobenzene
Concen: 48.811 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 672532
Ion Ratio Lower Upper
112 100
114 31.7 25.0 37.4

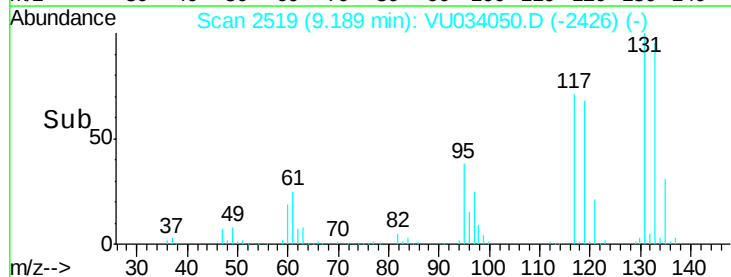
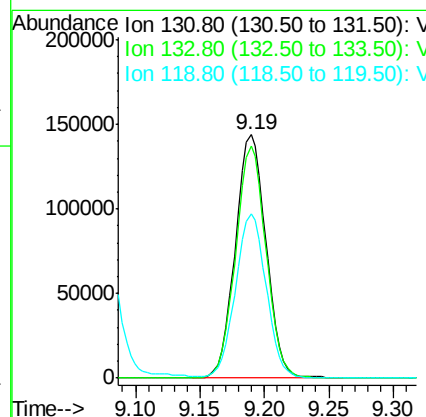
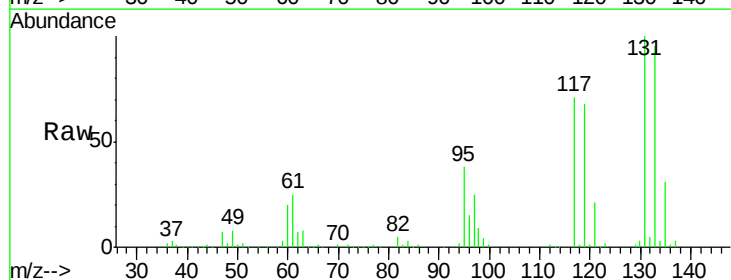
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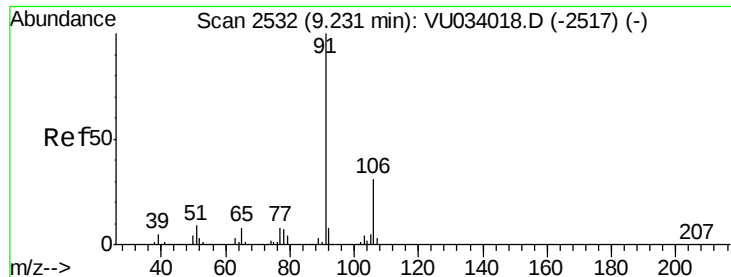
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#66
1,1,1,2-Tetrachloroethane
Concen: 47.688 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion:131 Resp: 238257
Ion Ratio Lower Upper
131 100
133 94.4 48.4 145.2
119 67.1 33.6 100.6





#67

Ethyl Benzene

Concen: 49.727 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1161417

Ion Ratio Lower Upper

91 100

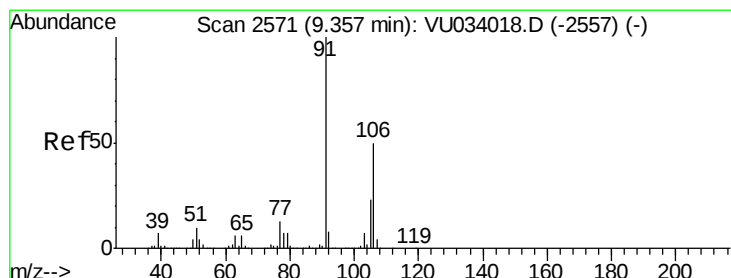
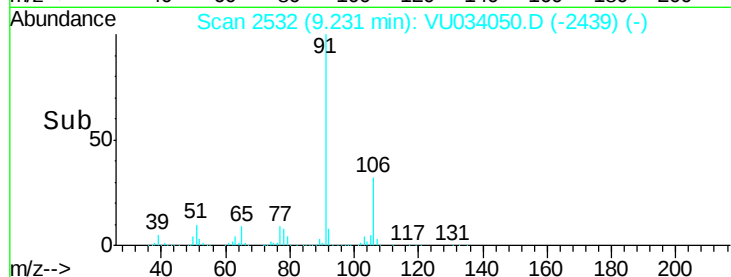
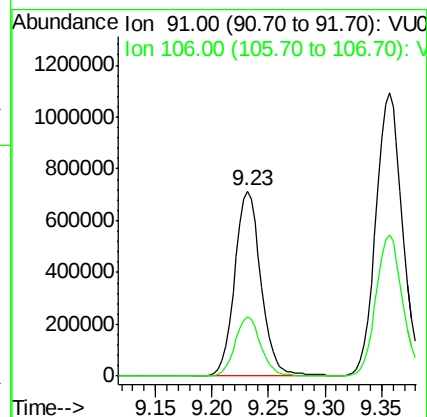
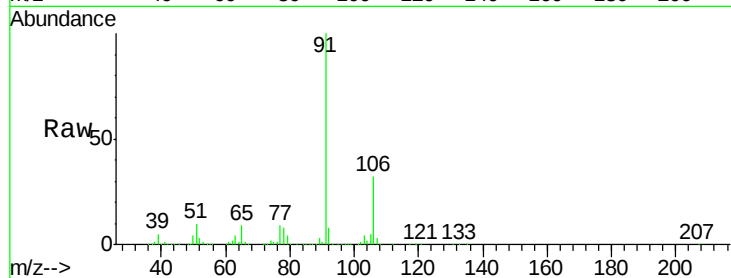
106 31.8 24.9 37.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 101.290 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034050.D

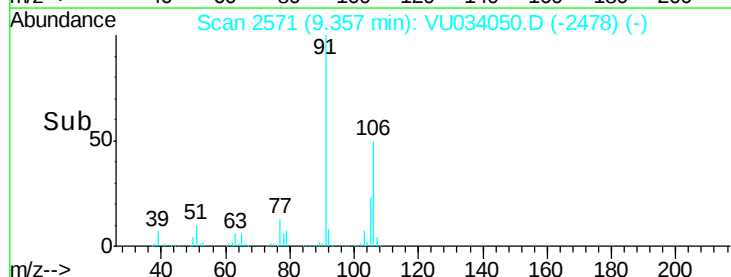
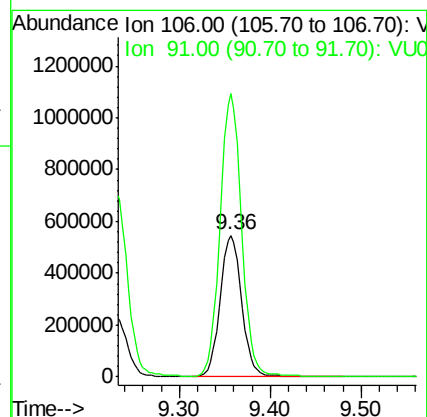
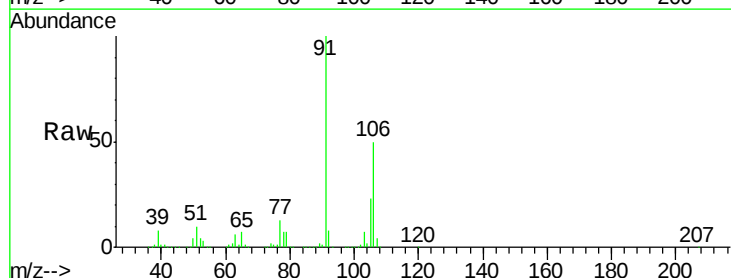
Acq: 29 Aug 2019 01:50

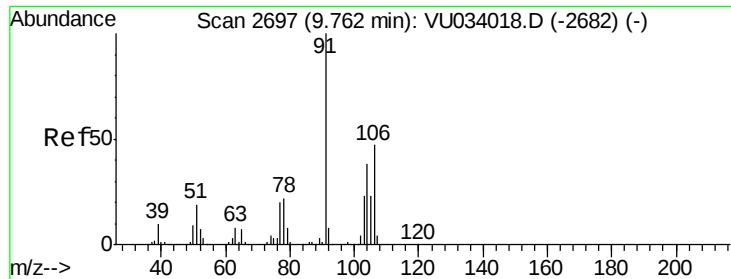
Tgt Ion: 106 Resp: 899539

Ion Ratio Lower Upper

106 100

91 200.1 161.6 242.4





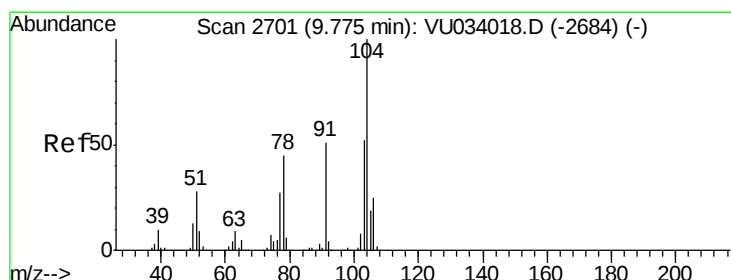
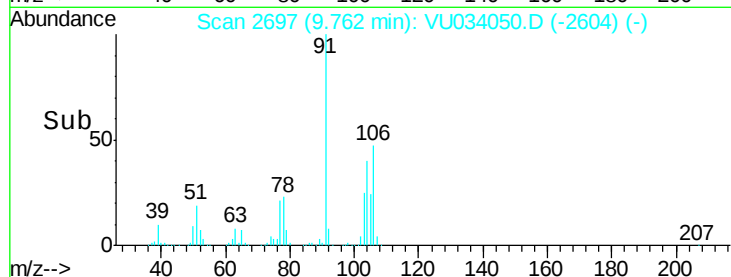
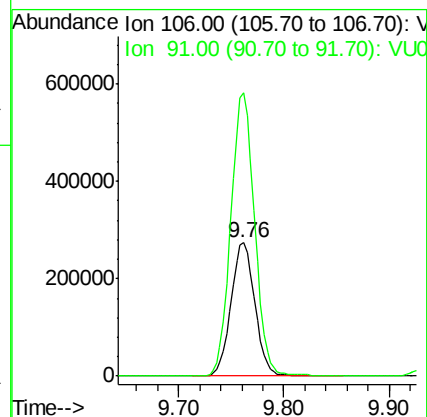
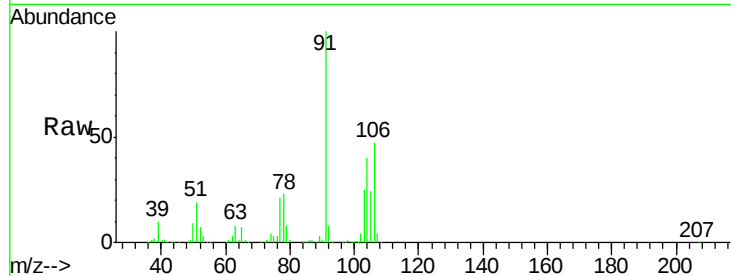
#69
o-Xylene
Concen: 50.411 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.5	106.0	318.0

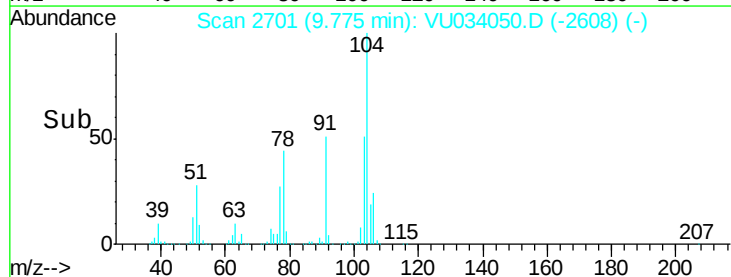
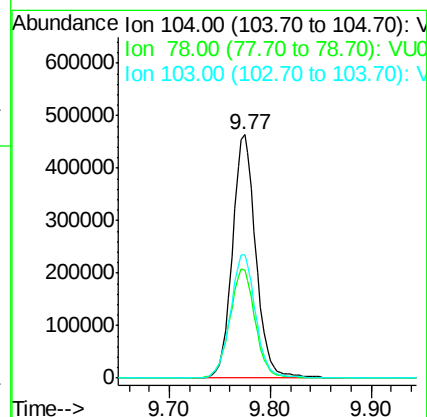
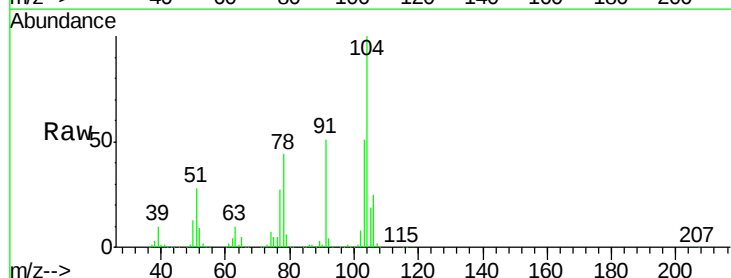
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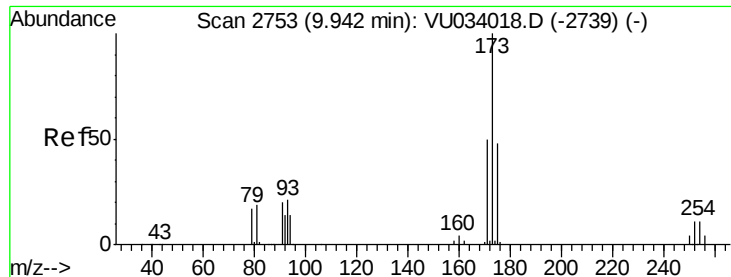
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#70
Styrene
Concen: 51.682 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.7	39.0	58.4
103	54.8	44.0	66.0





#71

Bromoform

Concen: 46.624 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 202386

Ion Ratio Lower Upper

173 100

175 48.4 24.6 73.6

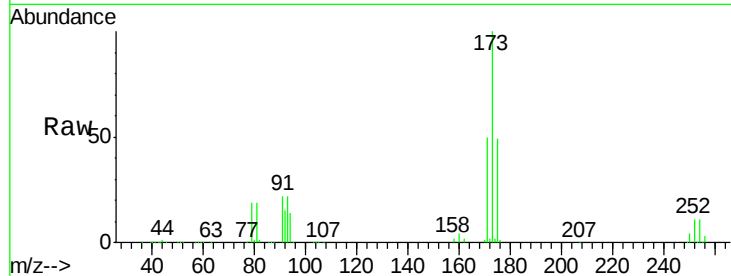
254 0.1 0.0 0.0#

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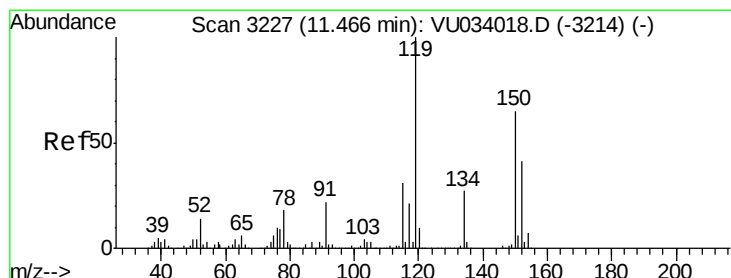
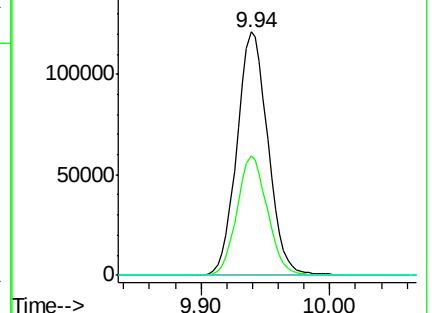
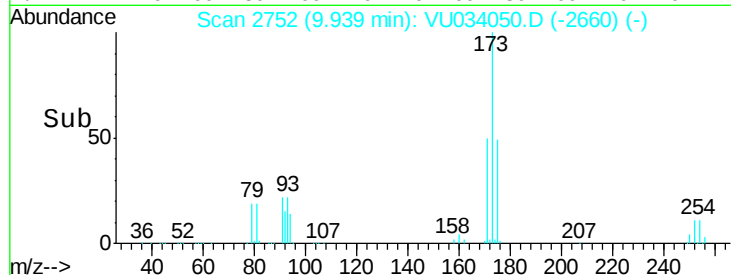
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

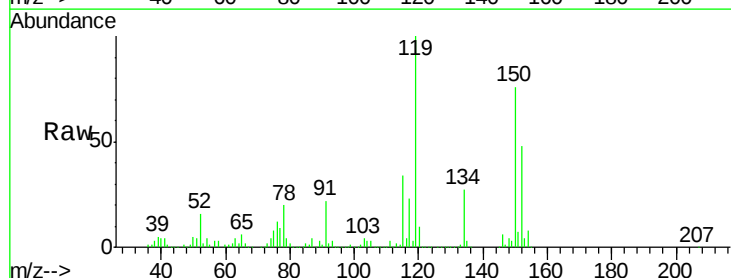
Tgt Ion:152 Resp: 354880

Ion Ratio Lower Upper

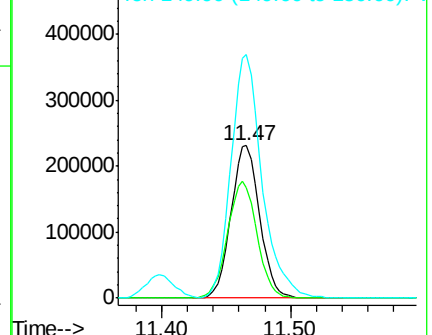
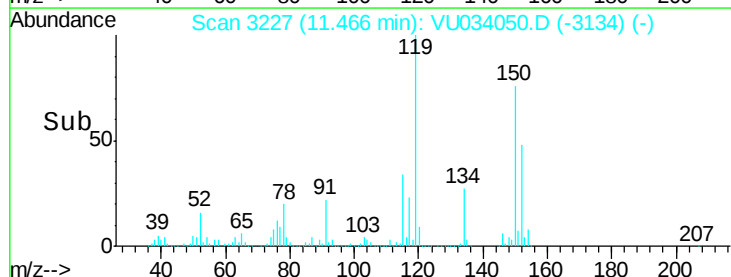
152 100

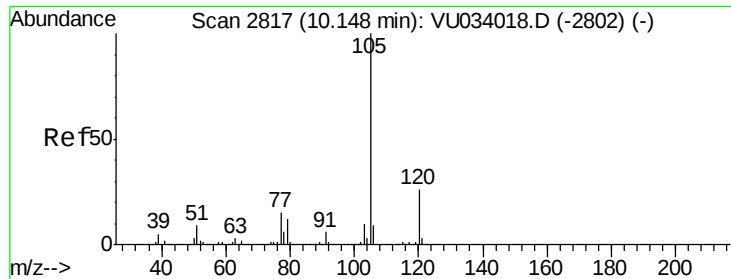
115 78.8 41.1 123.3

150 172.9 0.0 348.8



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





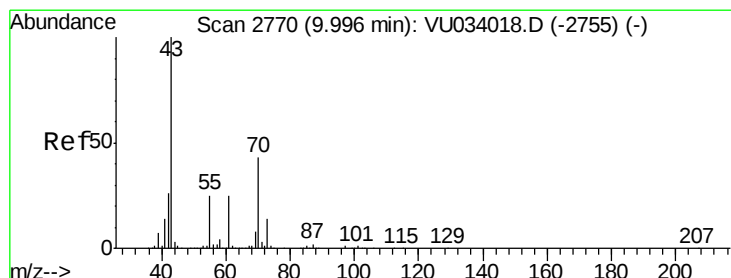
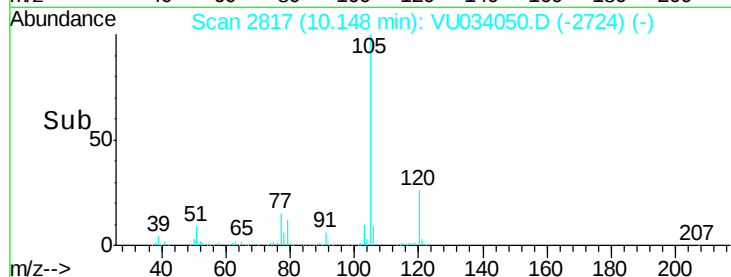
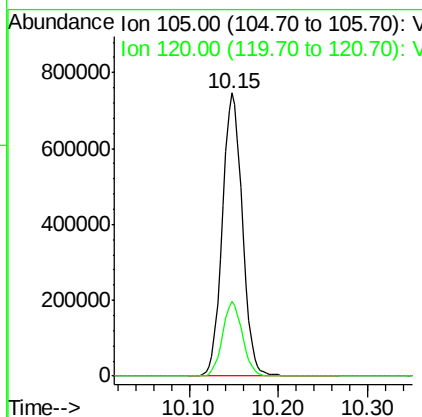
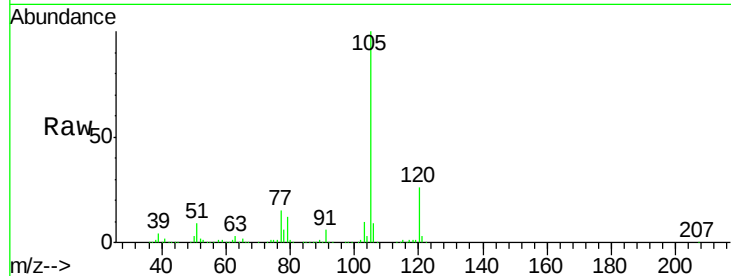
#73
Isopropylbenzene
Concen: 48.485 ug/l
RT: 10.15 min Scan# 2817
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion:105 Resp: 1155735
Ion Ratio Lower Upper
105 100
120 26.2 13.3 39.8

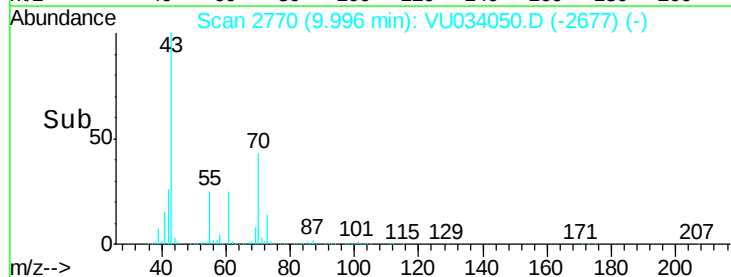
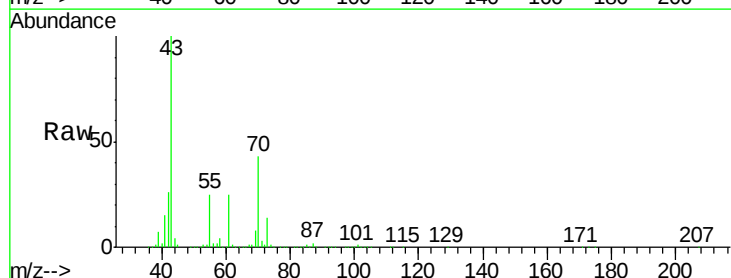
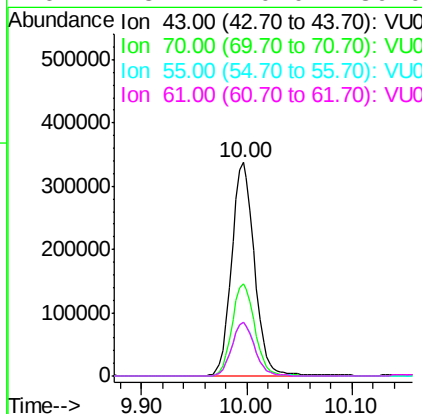
Manual Integrations
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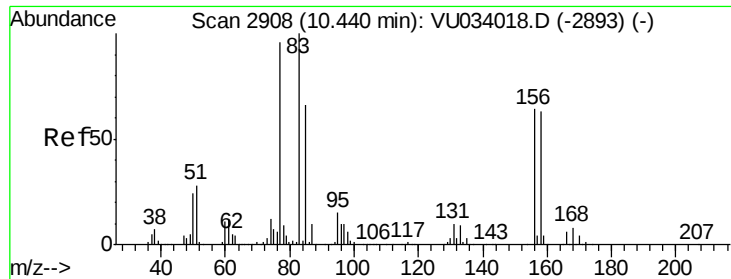
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#74
N-ethyl acetate
Concen: 50.122 ug/l
RT: 10.00 min Scan# 2770
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion: 43 Resp: 502507
Ion Ratio Lower Upper
43 100
70 43.4 35.2 52.8
55 25.5 20.5 30.7
61 25.2 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 45.465 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 83 Resp: 414808

Ion Ratio Lower Upper

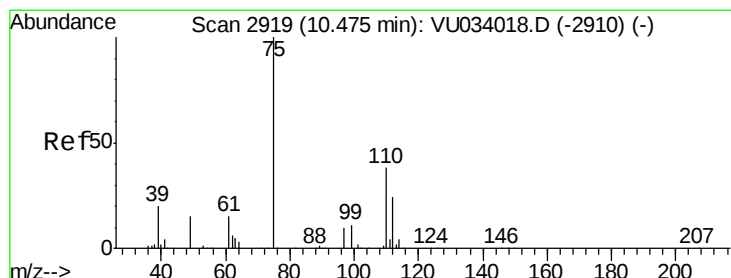
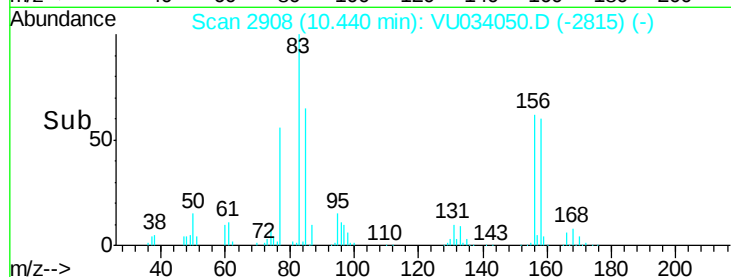
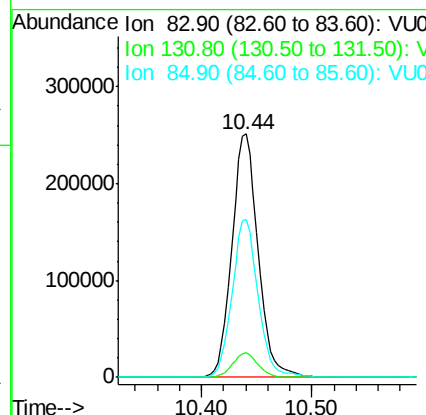
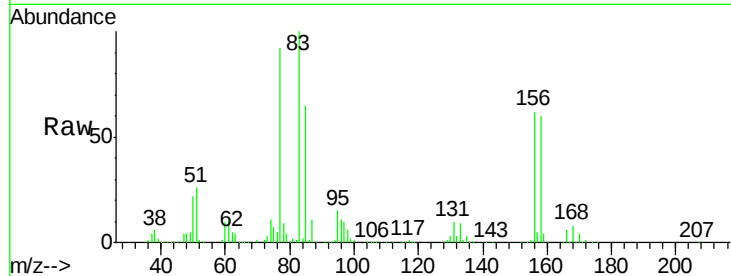
83 100

131 9.7 5.0 14.9

85 64.3 32.2 96.6

Manual Integrations
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MMDadoda
8/29/2019 8:47:46 AM



#76

1,2,3-Trichloropropane

Concen: 45.010 ug/l m

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU034050.D

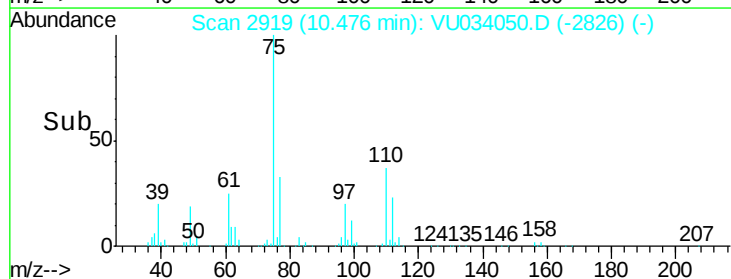
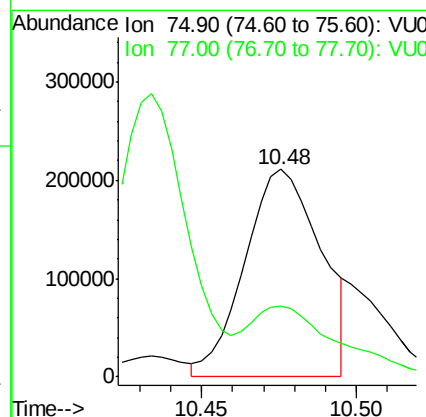
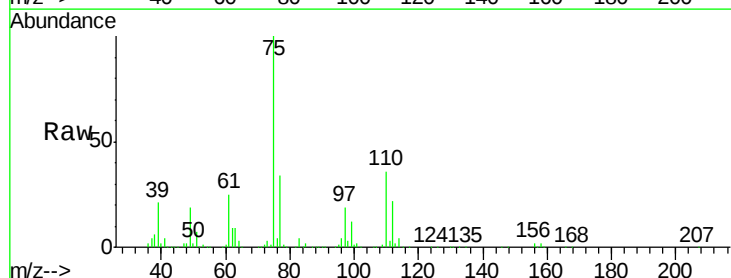
Acq: 29 Aug 2019 01:50

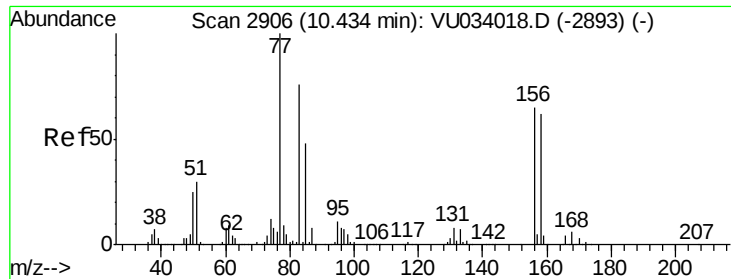
Tgt Ion: 75 Resp: 360009

Ion Ratio Lower Upper

75 100

77 40.9 20.1 60.2





#77

Bromobenzene

Concen: 46.478 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

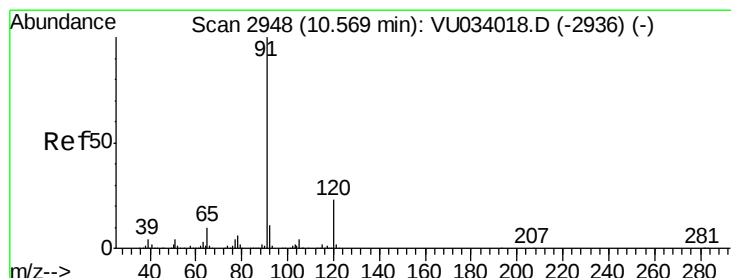
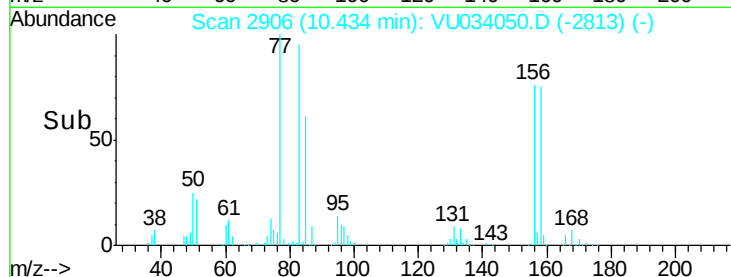
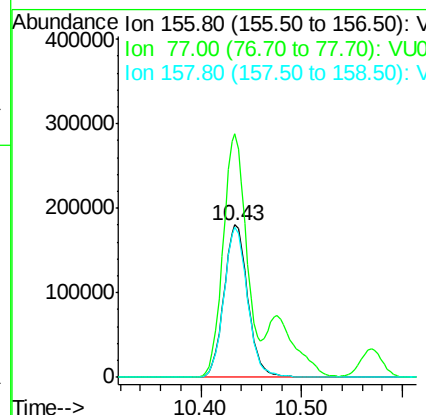
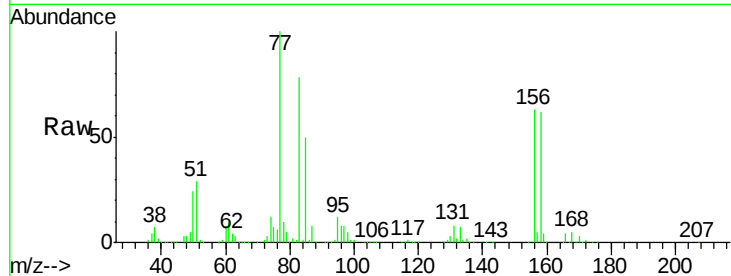
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	298024
Ion Ratio	Lower	Upper	
156	100		
77	156.3	76.8	230.5
158	97.9	48.4	145.0

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#78

n-propylbenzene

Concen: 48.597 ug/l

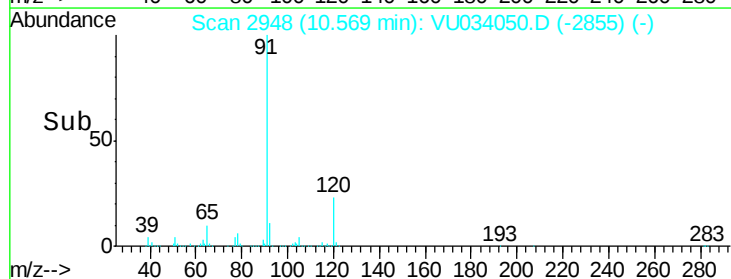
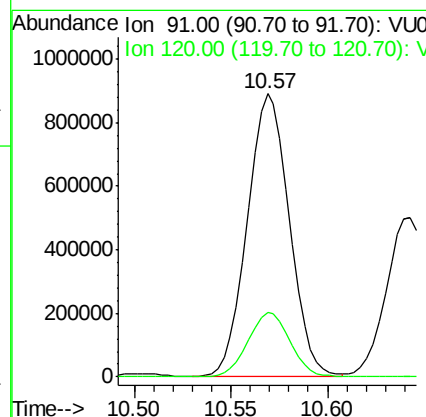
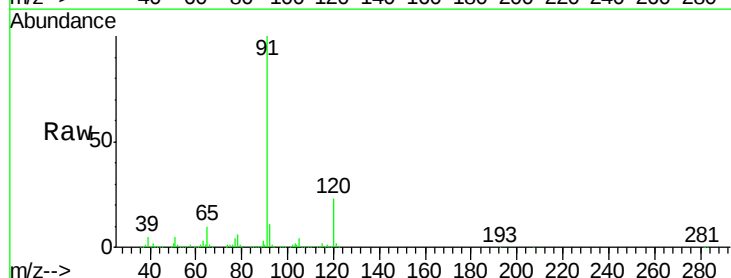
RT: 10.57 min Scan# 2948

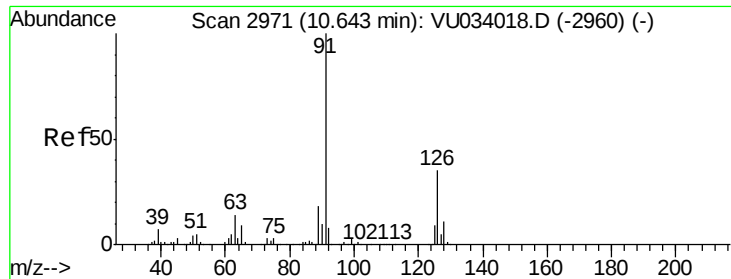
Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Tgt Ion:	91	Resp:	1349070
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.7	35.0





#79

2-Chlorotoluene

Concen: 47.950 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 798415

Ion Ratio Lower Upper

91 100

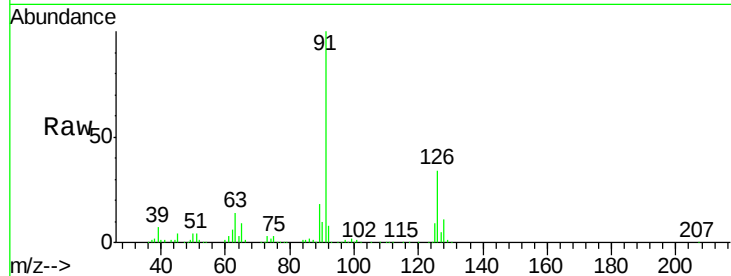
126 34.0 17.1 51.2

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Abundance Ion 91.00 (90.70 to 91.70): VU034018.D (-2960) (-)

Ion 125.90 (125.60 to 126.60): VU034018.D (-2960) (-)

1000000

800000

600000

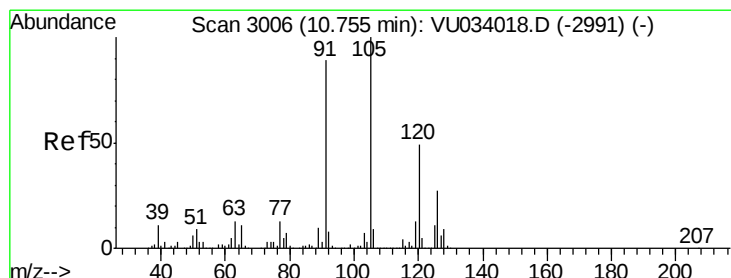
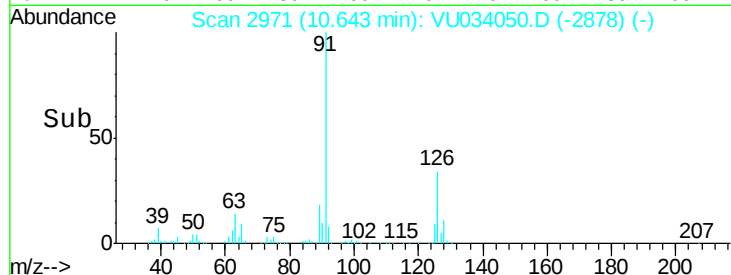
400000

200000

0

10.60 10.65 10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 49.319 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VU034050.D

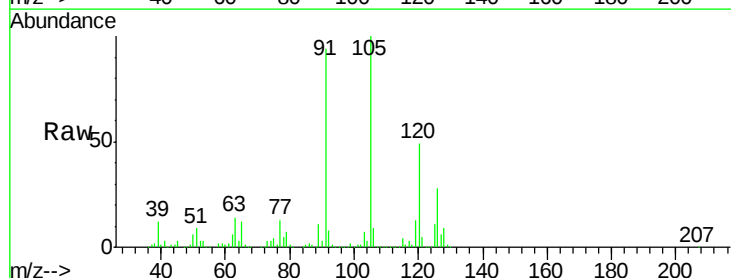
Acq: 29 Aug 2019 01:50

Tgt Ion: 105 Resp: 996403

Ion Ratio Lower Upper

105 100

120 49.2 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VU034018.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU034018.D (-2991) (-)

600000

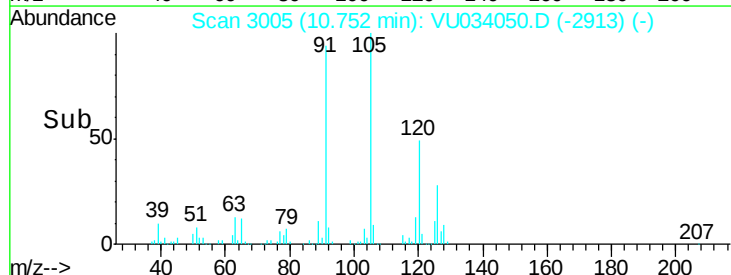
400000

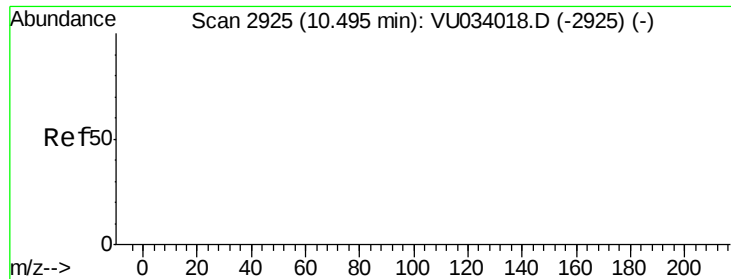
200000

0

10.70 10.80

Time-->





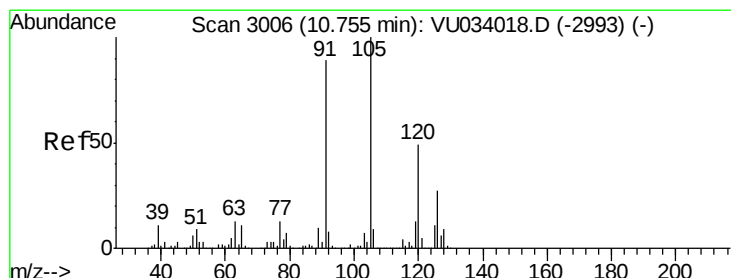
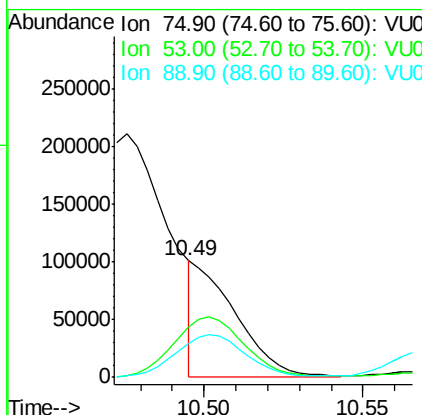
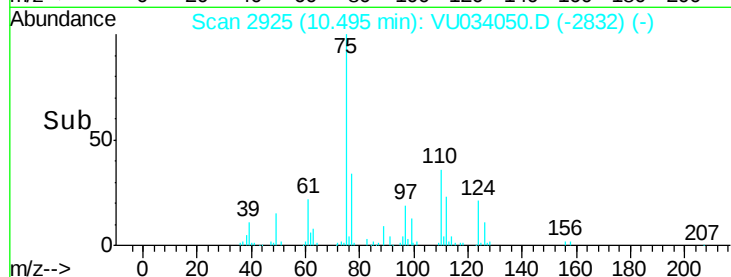
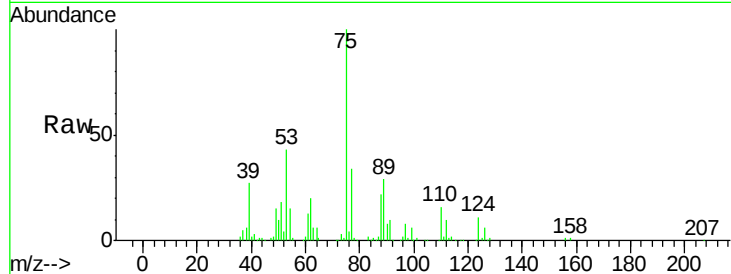
#81
trans-1,4-Dichloro-2-butene
Concen: 39.310 ug/l m
RT: 10.49 min Scan# 2925
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

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

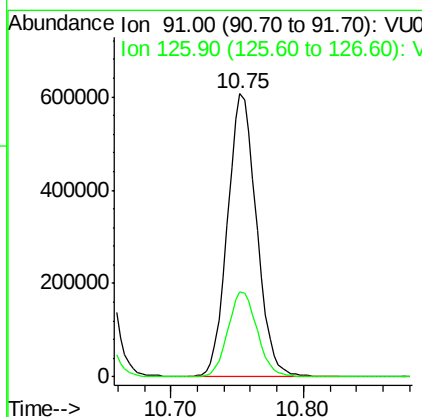
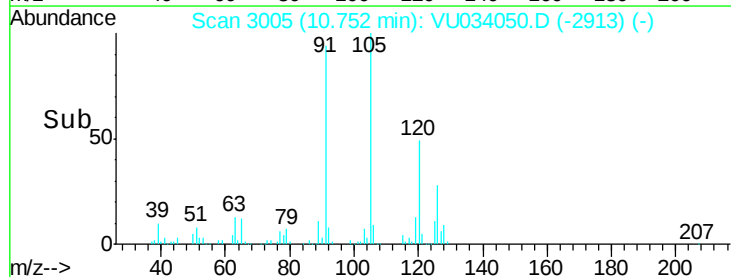
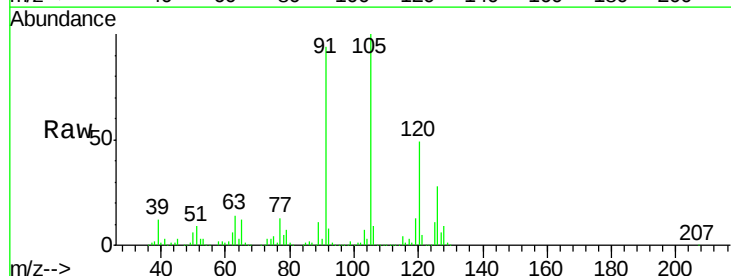
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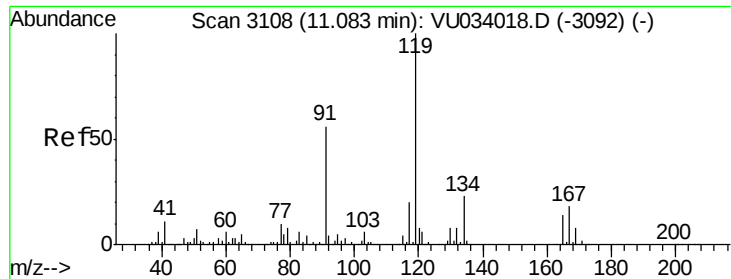
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#82
4-Chlorotoluene
Concen: 47.997 ug/l
RT: 10.75 min Scan# 3005
Delta R.T. -0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.5	15.0	45.1





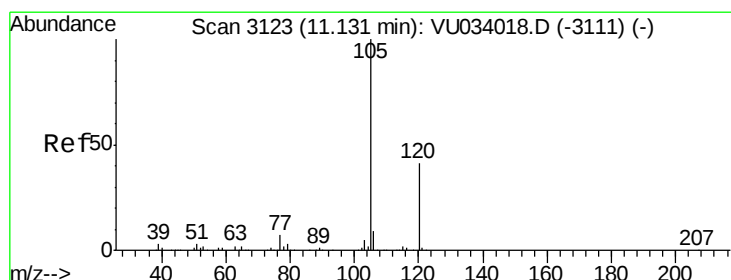
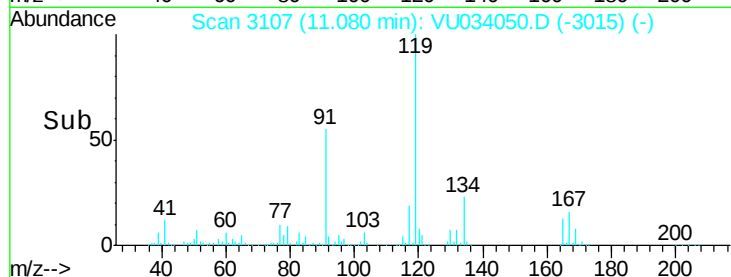
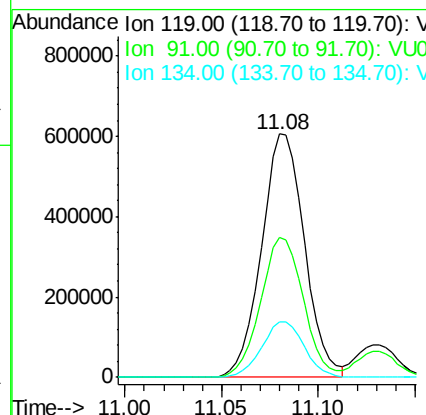
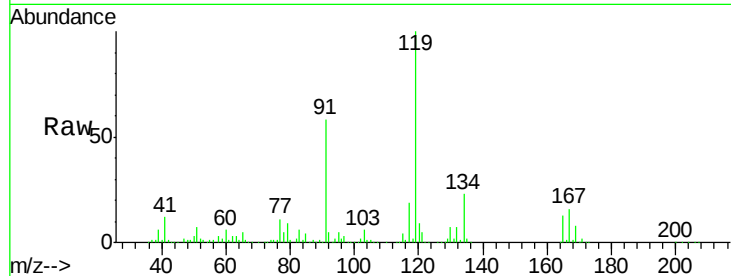
#83
 tert-Butylbenzene
 Concen: 47.230 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. -0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	57.0	27.9	83.6
134	22.7	11.4	34.2

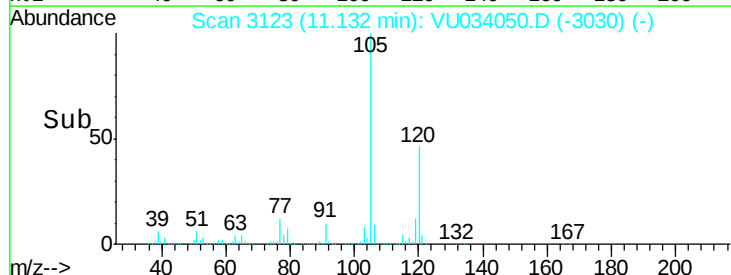
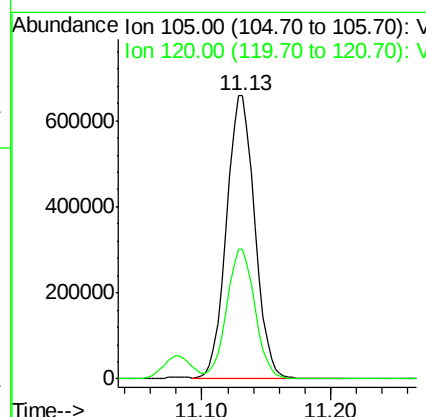
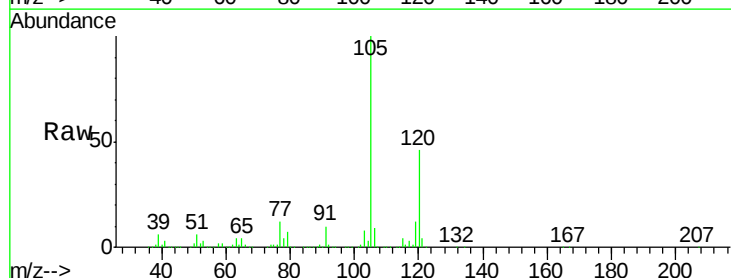
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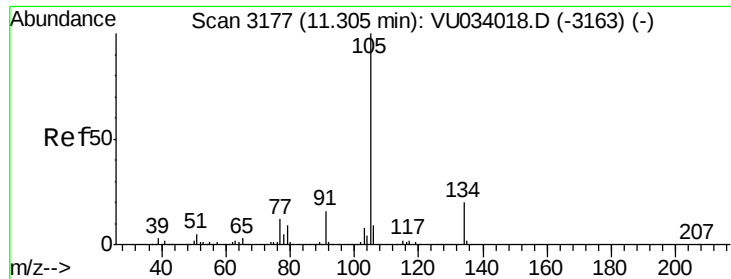
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.737 ug/l
 RT: 11.13 min Scan# 3123
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	22.6	67.8





#85

sec-Butylbenzene

Concen: 48.395 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1153630

Ion Ratio Lower Upper

105 100

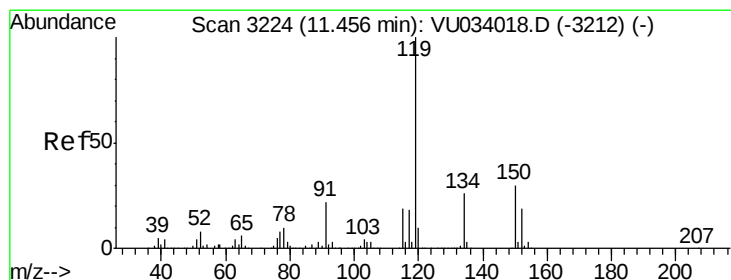
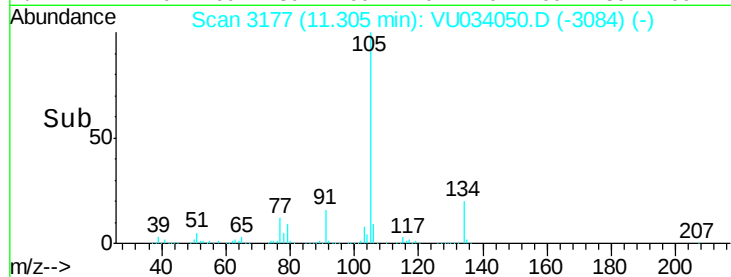
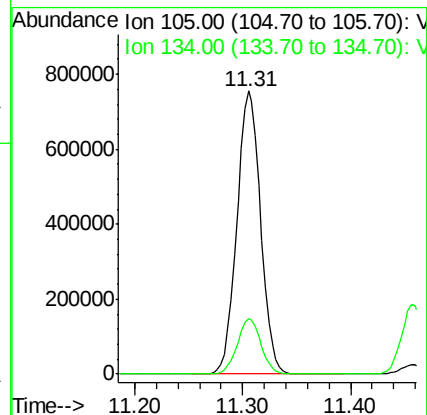
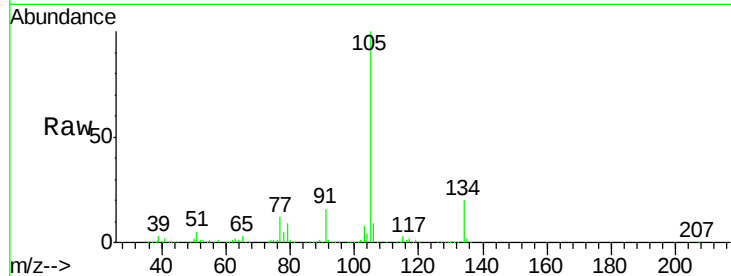
134 19.7 10.0 30.0

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#86

p-Isopropyltoluene

Concen: 48.817 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

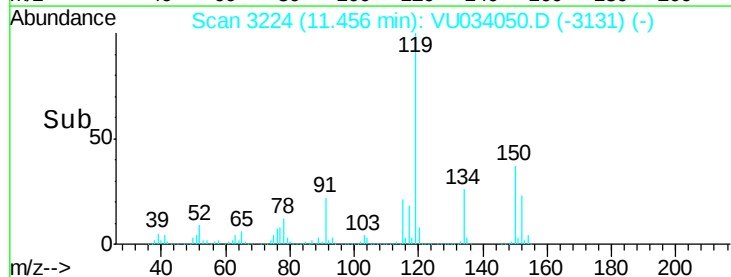
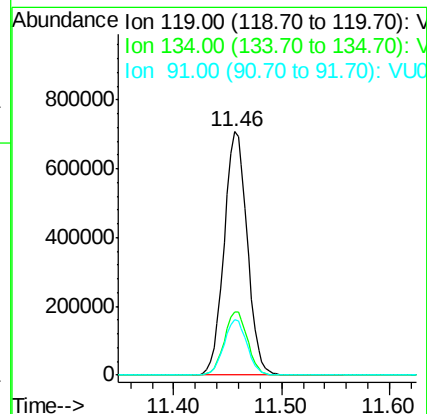
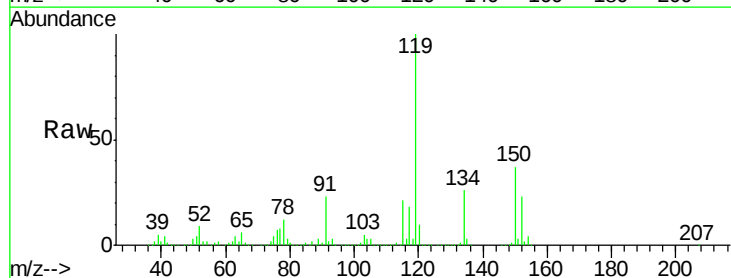
Tgt Ion:119 Resp: 1052452

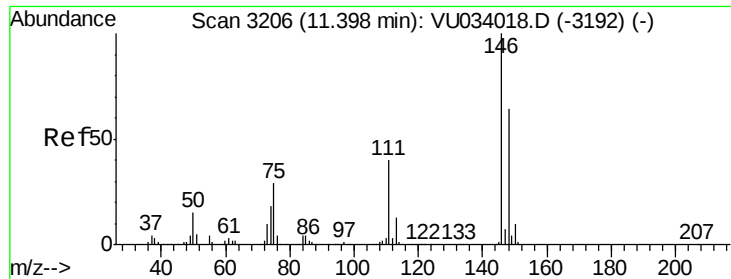
Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.1

91 22.6 11.2 33.6





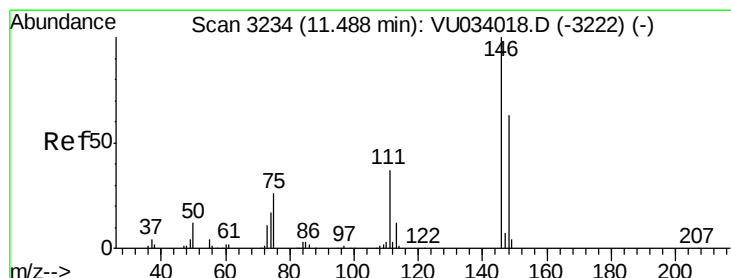
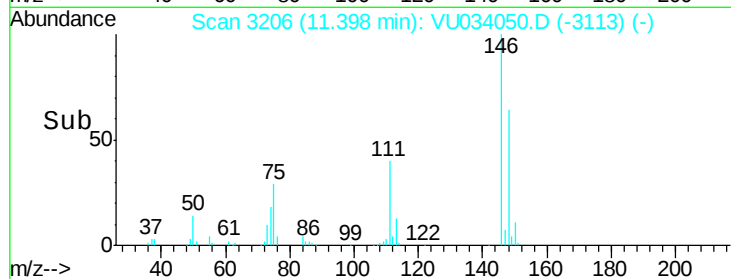
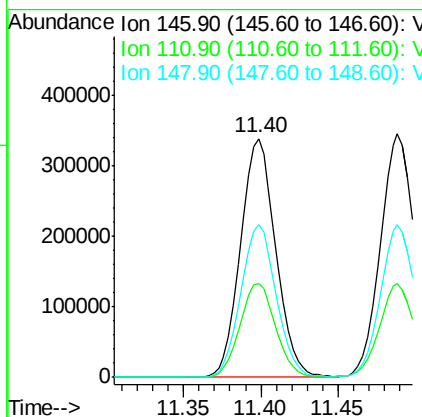
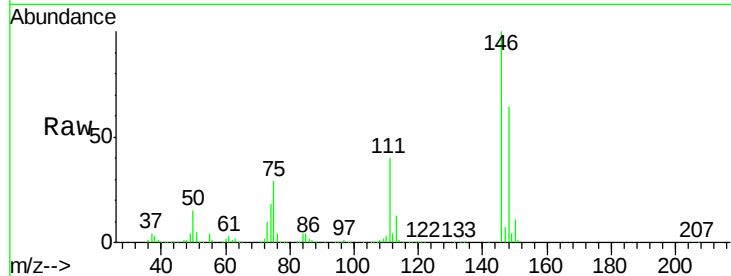
#87
 1,3-Dichlorobenzene
 Concen: 47.128 ug/l
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.6
148	64.1	31.9	95.5

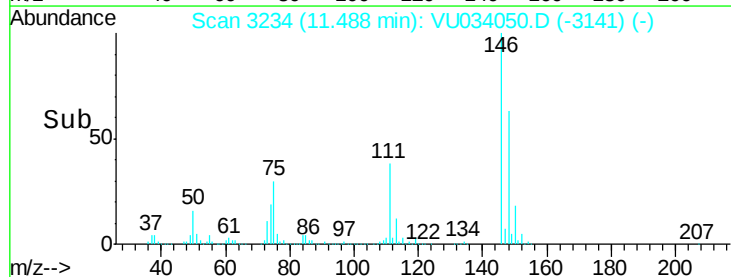
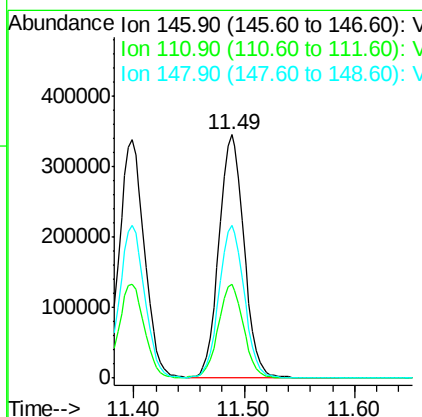
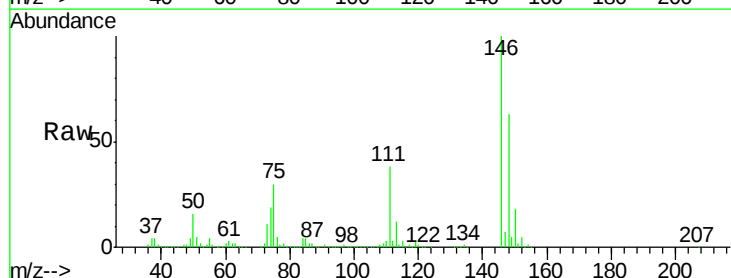
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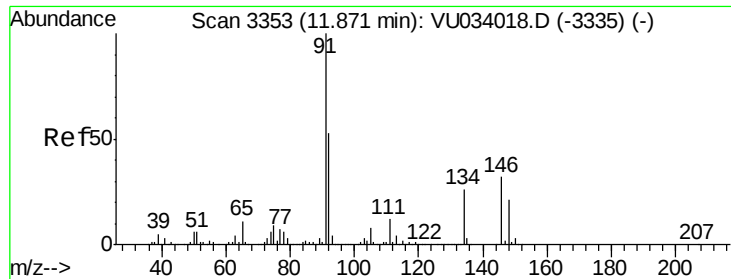
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#88
 1,4-Dichlorobenzene
 Concen: 47.267 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.2	57.6
148	63.1	31.9	95.9





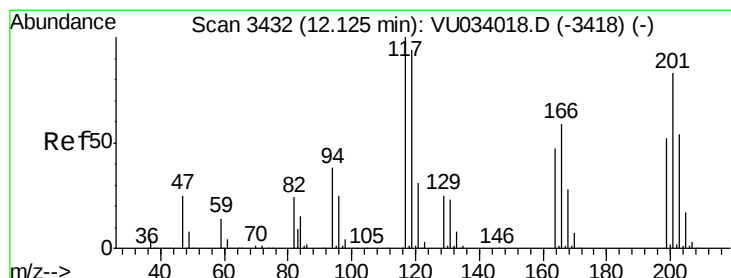
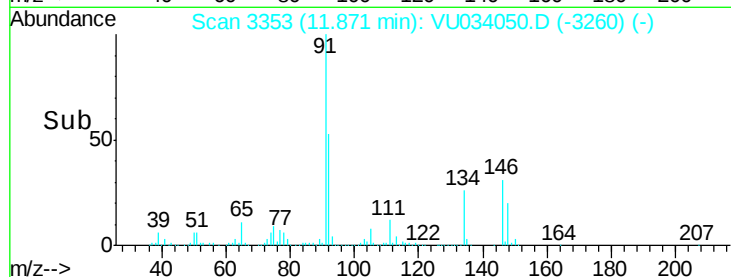
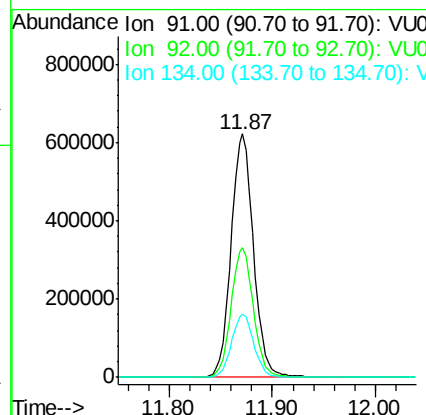
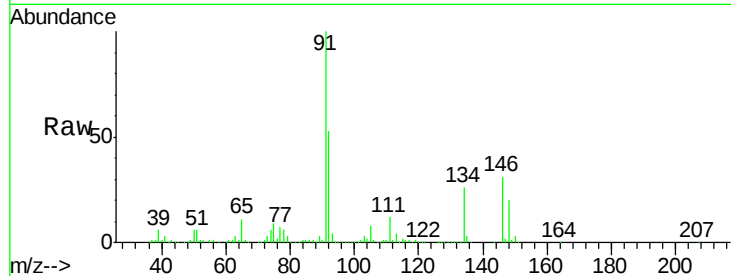
#89
n-Butylbenzene
Concen: 49.456 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.3	78.9
134	26.0	12.9	38.7

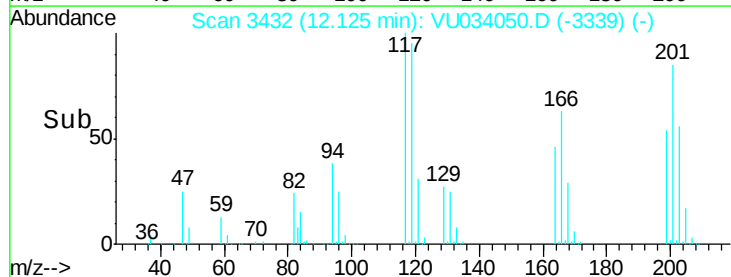
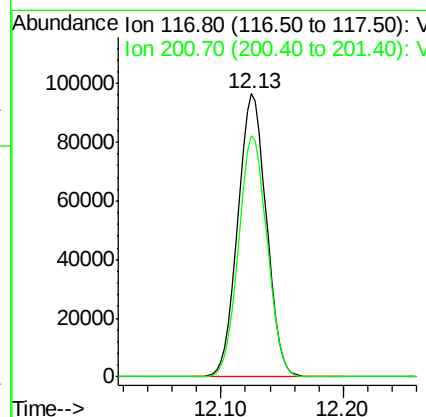
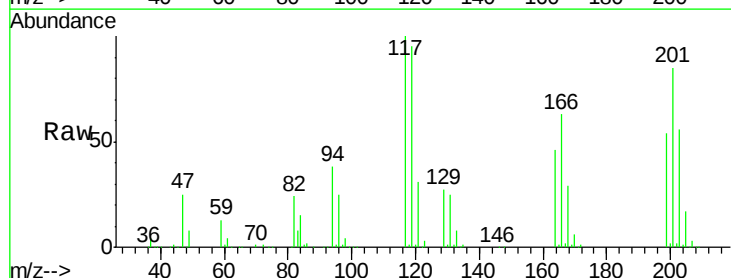
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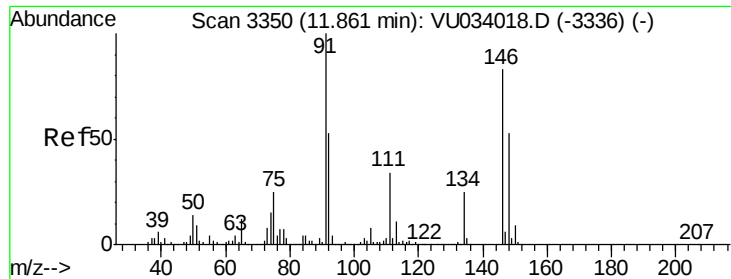
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#90
Hexachloroethane
Concen: 42.072 ug/l
RT: 12.13 min Scan# 3432
Delta R.T. 0.00 min
Lab File: VU034050.D
Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.1	42.5	127.6





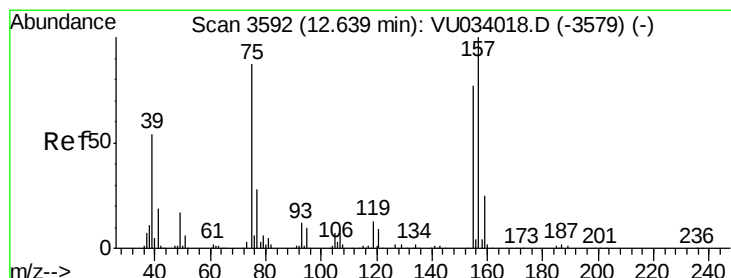
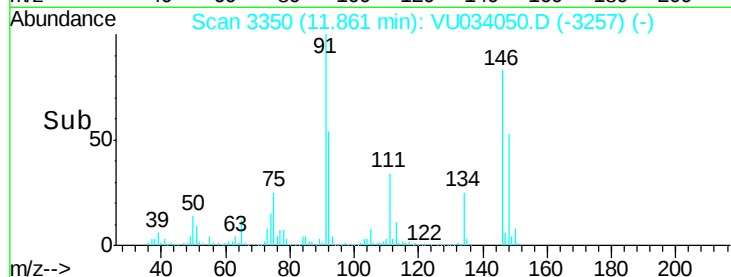
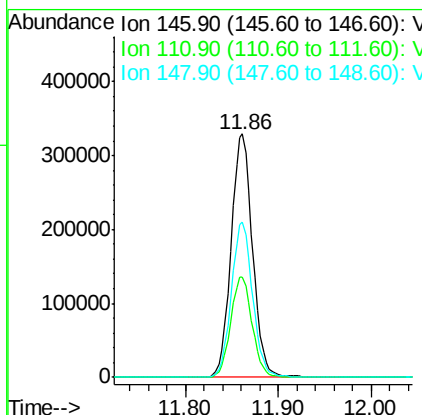
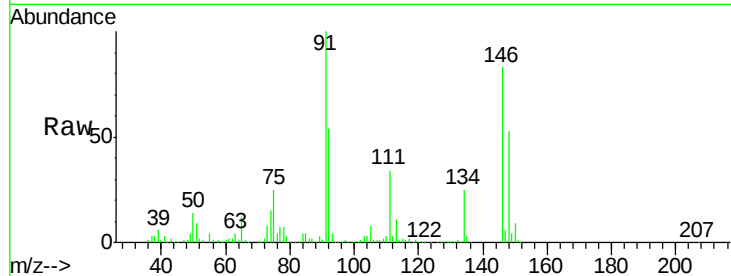
#91
 1,2-Dichlorobenzene
 Concen: 48.520 ug/l
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.4	61.2
148	63.1	32.3	96.8

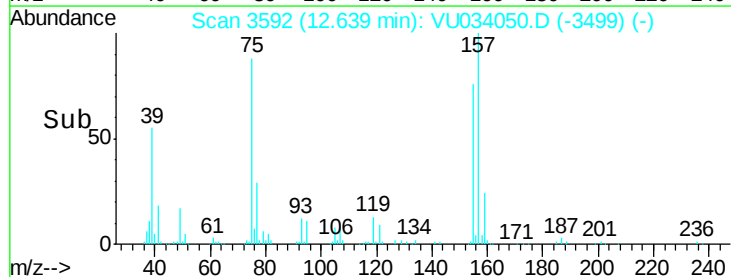
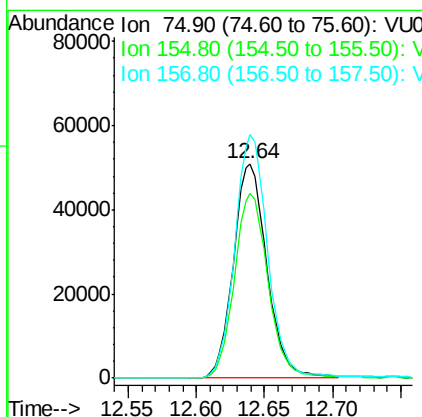
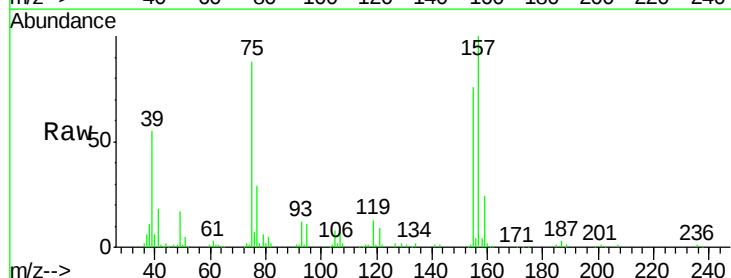
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.907 ug/l
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.2	43.5	130.7
157	111.9	56.9	170.6





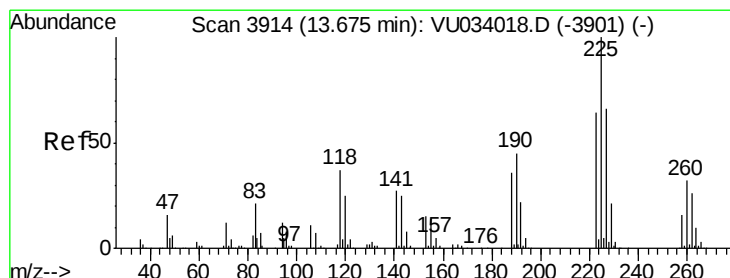
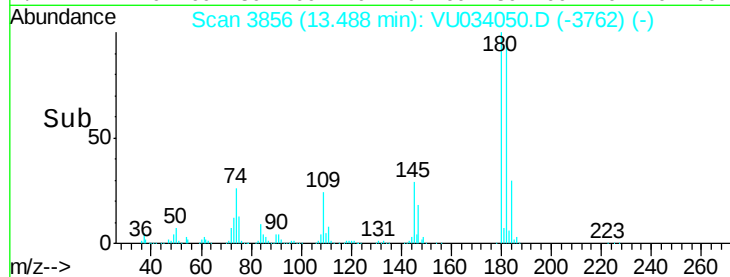
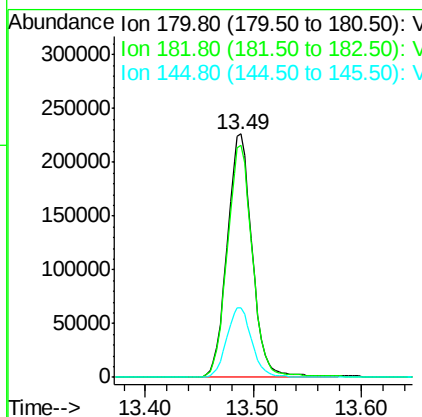
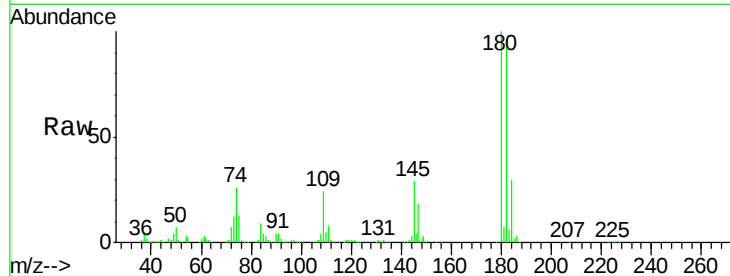
#93
 1,2,4-Trichlorobenzene
 Concen: 47.332 ug/l
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	365632		
182	96.3	47.4	142.2	
145	28.9	14.1	42.3	

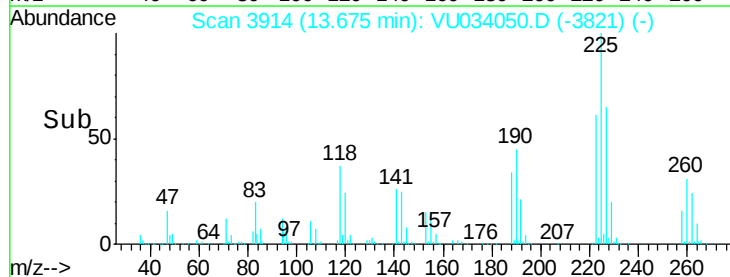
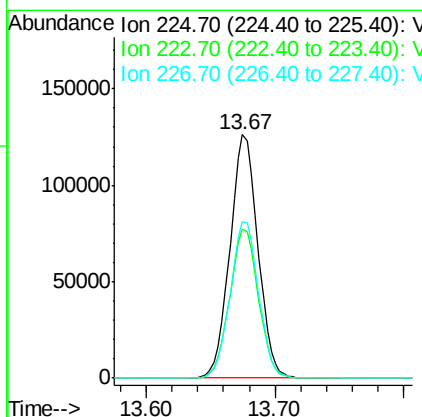
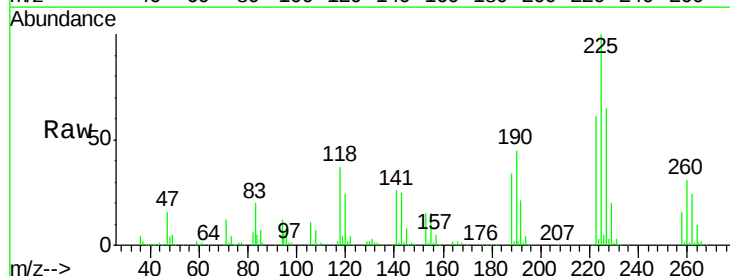
Manual Integrations
 APPROVED

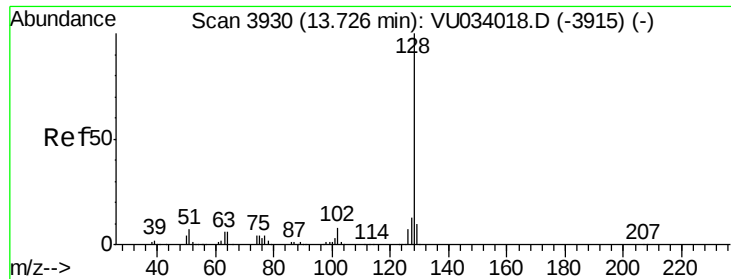
MMDadoda
 8/29/2019 8:47:46 AM



#94
 Hexachlorobutadiene
 Concen: 44.657 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034050.D
 Acq: 29 Aug 2019 01:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	189970		
223	62.5	31.8	95.3	
227	65.2	32.6	97.8	





#95

Naphthalene

Concen: 48.223 ug/l

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050EC

Tot Ion:128 Resp: 1066718

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.4

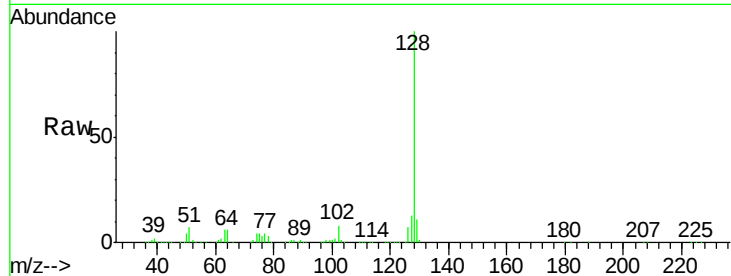
129 10.6 8.4 12.6

Manual Integrations

APPROVED

MMDadoda

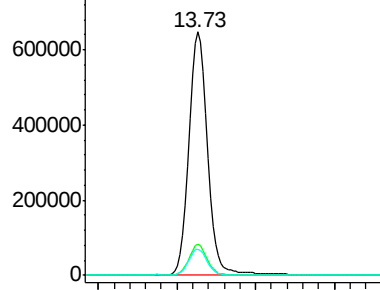
8/29/2019 8:47:46 AM



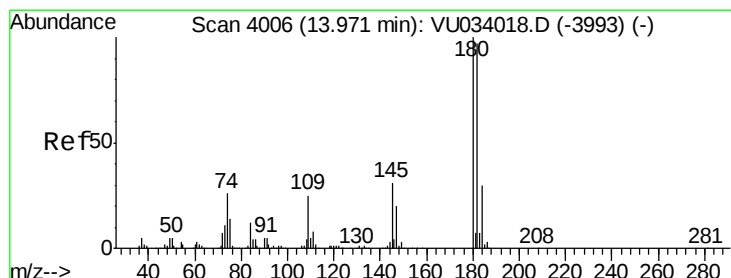
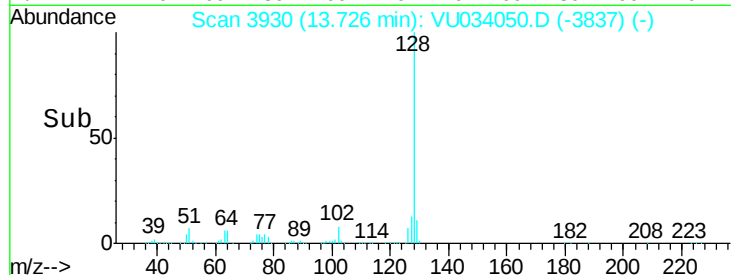
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 52.179 ug/l

RT: 13.97 min Scan# 4006

Delta R.T. 0.00 min

Lab File: VU034050.D

Acq: 29 Aug 2019 01:50

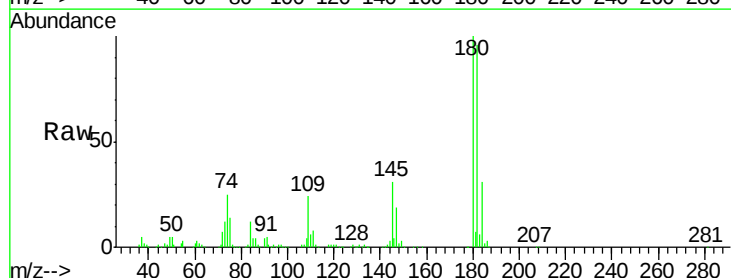
Tgt Ion:180 Resp: 363476

Ion Ratio Lower Upper

180 100

182 96.2 48.2 144.6

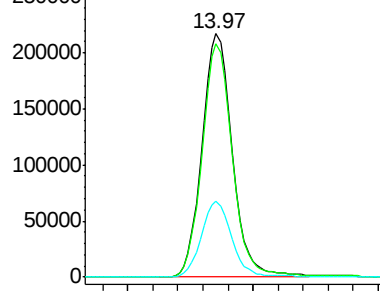
145 31.5 15.5 46.5



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



Time-->

