

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082919\
 Data File : VU034017.D
 Acq On : 28 Aug 2019 12:26
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 8/29/2019 8:27:35 AM

Quant Time: Aug 29 03:39:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 03:17:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	416616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	654859	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	635884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	320125	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	106301	21.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.92%	
35) Dibromofluoromethane	4.86	113	86818	19.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.88%	
50) Toluene-d8	7.55	98	342476	20.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.24%	
62) 4-Bromofluorobenzene	10.29	95	123748	19.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	91391	21.248	ug/l	96
3) Chloromethane	1.32	50	120938	22.225	ug/l	99
4) Vinyl Chloride	1.40	62	113435	24.966	ug/l	100
5) Bromomethane	1.60	94	64596	24.341	ug/l	99
6) Chloroethane	1.68	64	69558	25.736	ug/l	99
7) Trichlorofluoromethane	1.87	101	132588	22.958	ug/l	99
8) Diethyl Ether	2.09	74	56845	25.333	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.27	101	81754	22.383	ug/l	99
10) Methyl Iodide	2.40	142	116305	21.182	ug/l	100
11) Tert butyl alcohol	2.81	59	118746	96.063	ug/l	99
12) 1,1-Dichloroethene	2.27	96	84079	22.025	ug/l	98
13) Acrolein	2.18	56	51994	124.529	ug/l	100
14) Allyl chloride	2.58	41	158942	23.223	ug/l	99
15) Acrylonitrile	2.92	53	291062	114.361	ug/l	99
16) Acetone	2.31	43	279293	119.203	ug/l	100
17) Carbon Disulfide	2.46	76	260470	20.843	ug/l	98
18) Methyl Acetate	2.60	43	134349	23.351	ug/l	99
19) Methyl tert-butyl Ether	2.98	73	281196	21.978	ug/l	99
20) Methylene Chloride	2.68	84	103343	21.260	ug/l	97
21) trans-1,2-Dichloroethene	2.96	96	91921	21.298	ug/l	98
22) Diisopropyl ether	3.55	45	298947	23.736	ug/l	95
23) Vinyl Acetate	3.50	43	1278098	119.085	ug/l	100
24) 1,1-Dichloroethane	3.42	63	171134	22.003	ug/l	99
25) 2-Butanone	4.24	43	397978	118.343	ug/l	100
26) 2,2-Dichloropropane	4.20	77	139277	21.295	ug/l	99
27) cis-1,2-Dichloroethene	4.20	96	103622	21.409	ug/l	98
28) Bromochloromethane	4.52	49	85691	23.719	ug/l	97
29) Tetrahydrofuran	4.61	42	249971	119.314	ug/l	99
30) Chloroform	4.65	83	169286	21.404	ug/l	98
31) Cyclohexane	4.97	56	159384	22.149	ug/l	94
32) 1,1,1-Trichloroethane	4.89	97	139825	21.117	ug/l	99
36) 1,1-Dichloropropene	5.11	75	120897	19.708	ug/l	99
37) Ethyl Acetate	4.36	43	139024	22.227	ug/l	100
38) Carbon Tetrachloride	5.11	117	120368	19.463	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	145035	20.006	ug/l	97
40) Benzene	5.37	78	382837	20.966	ug/l	100
41) Methacrylonitrile	4.52	41	74518	22.876	ug/l	100
42) 1,2-Dichloroethane	5.38	62	132655	21.405	ug/l	98
43) Isopropyl Acetate	5.53	43	214611	22.315	ug/l	99
44) Trichloroethene	6.17	130	100111	19.539	ug/l	100
45) 1,2-Dichloropropane	6.41	63	105183	21.364	ug/l	99
46) Dibromomethane	6.54	93	66899	20.223	ug/l	99
47) Bromodichloromethane	6.74	83	131140	20.742	ug/l	99
48) Methyl methacrylate	6.60	41	100971	21.863	ug/l	98
49) 1,4-Dioxane	6.59	88	49863	408.390	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	758039	113.845	ug/l	98
52) Toluene	7.62	92	232517	20.223	ug/l	96
53) t-1,3-Dichloropropene	7.86	75	144295	20.485	ug/l	100
54) cis-1,3-Dichloropropene	7.25	75	158575	20.915	ug/l	98
55) 1,1,2-Trichloroethane	8.05	97	100198	20.524	ug/l	99
56) Ethyl methacrylate	8.00	69	144306	20.745	ug/l	100
57) 1,3-Dichloropropane	8.22	76	170955	21.530	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.11	63	278250	108.744	ug/l	99
59) 2-Hexanone	8.34	43	572864	112.032	ug/l	98
60) Dibromochloromethane	8.46	129	103030	18.984	ug/l	100
61) 1,2-Dibromoethane	8.57	107	102757	20.059	ug/l	99
64) Tetrachloroethene	8.21	164	86024	17.114	ug/l	99
65) Chlorobenzene	9.10	112	259958	19.565	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.19	131	92388	18.817	ug/l	98
67) Ethyl Benzene	9.23	91	441747	19.836	ug/l	99
68) m/p-Xylenes	9.36	106	344229	40.199	ug/l	100
69) o-Xylene	9.76	106	162412	19.789	ug/l	97
70) Styrene	9.77	104	280740	19.978	ug/l	99
71) Bromoform	9.94	173	79304	18.247	ug/l #	99
73) Isopropylbenzene	10.15	105	450142	21.302	ug/l	98
74) N-amyl acetate	10.00	43	185199	22.801	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.44	83	167956	21.866	ug/l	100
76) 1,2,3-Trichloropropane	10.48	75	151215m	22.970	ug/l	
77) Bromobenzene	10.43	156	115563	19.533	ug/l	98
78) n-propylbenzene	10.57	91	513178	21.329	ug/l	100
79) 2-Chlorotoluene	10.64	91	310097	21.340	ug/l	100
80) 1,3,5-Trimethylbenzene	10.76	105	383538	21.216	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	44292m	20.004	ug/l	
82) 4-Chlorotoluene	10.76	91	351964	20.980	ug/l	99
83) tert-Butylbenzene	11.08	119	361846	20.547	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	380580	21.393	ug/l	100
85) sec-Butylbenzene	11.30	105	437990	20.859	ug/l	100
86) p-Isopropyltoluene	11.46	119	400497	20.491	ug/l	99
87) 1,3-Dichlorobenzene	11.40	146	204173	19.473	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	205060	19.395	ug/l	99
89) n-Butylbenzene	11.87	91	346880	21.011	ug/l	98
90) Hexachloroethane	12.12	117	65724	20.258	ug/l	99
91) 1,2-Dichlorobenzene	11.86	146	199559	19.378	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	33043	21.697	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	120192	19.062	ug/l	97
94) Hexachlorobutadiene	13.67	225	77395	18.518	ug/l	99
95) Naphthalene	13.73	128	333362	19.942	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	124539	19.121	ug/l	98

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

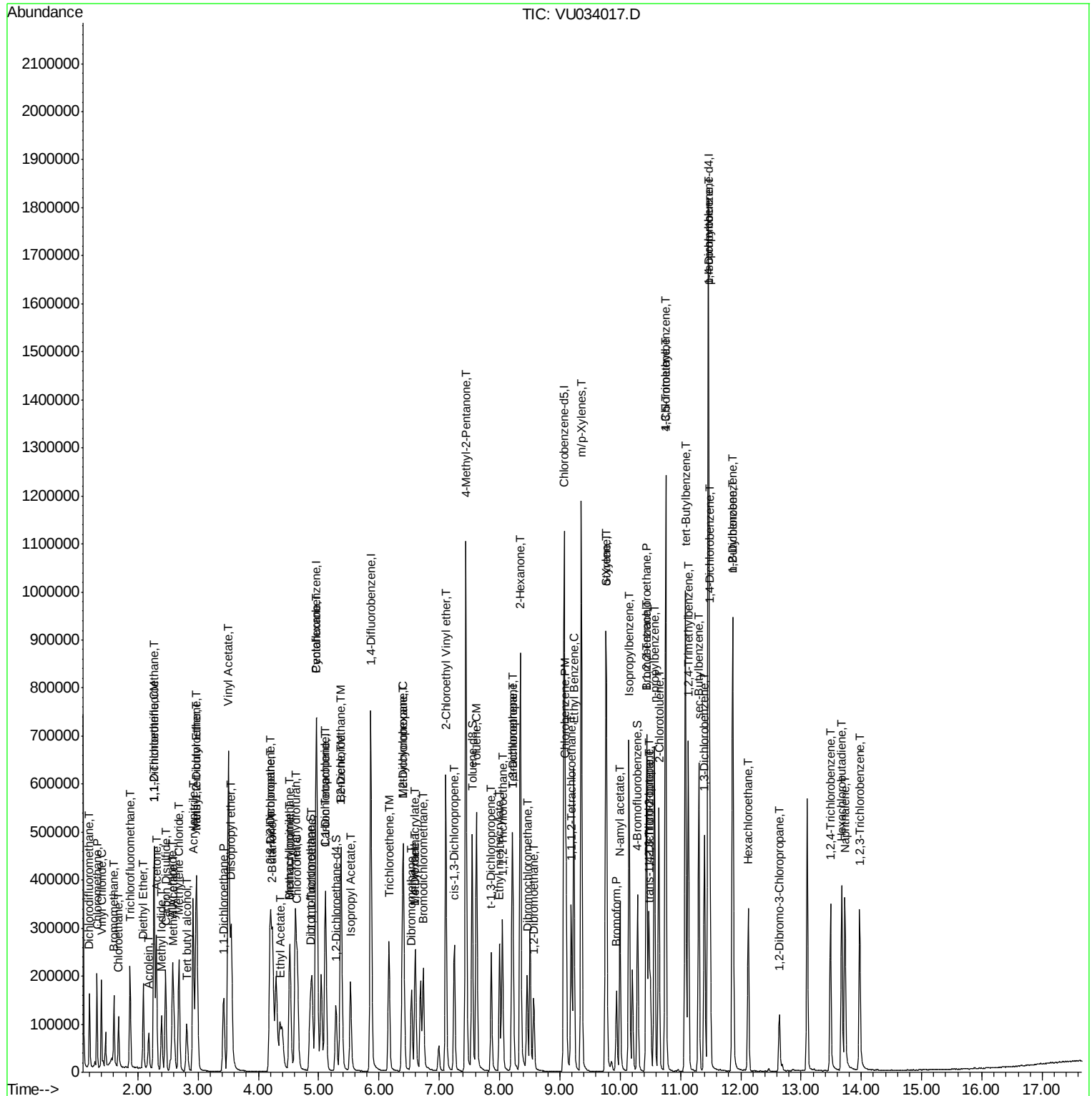
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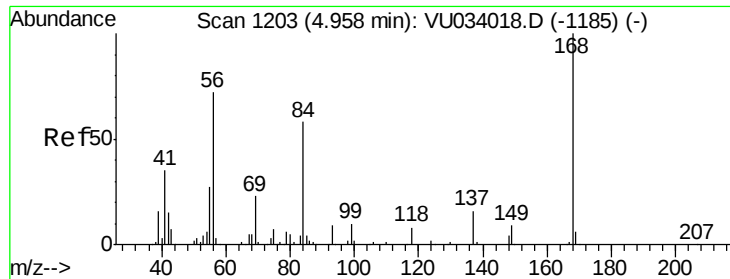
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 416616

Ion Ratio Lower Upper

168 100

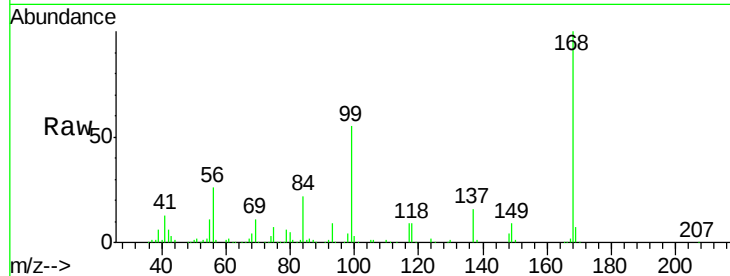
99 54.1 42.3 63.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU034017.D (-1110) (-)

Ion 98.90 (98.60 to 99.60): VU034017.D (-1110) (-)

4.96

200000

150000

100000

50000

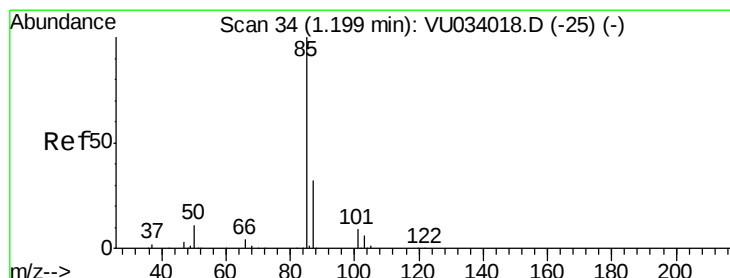
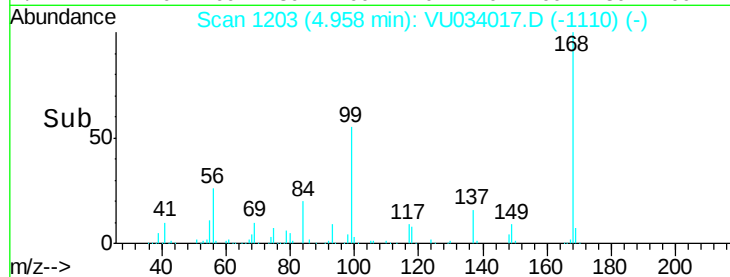
0

4.90

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.248 ug/l

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034017.D

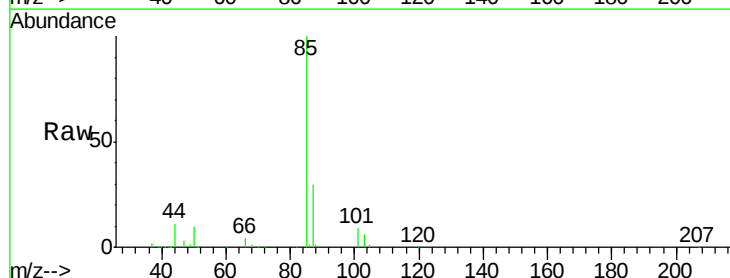
Acq: 28 Aug 2019 12:26

Tgt Ion: 85 Resp: 91391

Ion Ratio Lower Upper

85 100

87 30.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU034017.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU034017.D (-1) (-)

1.20

100000

80000

60000

40000

20000

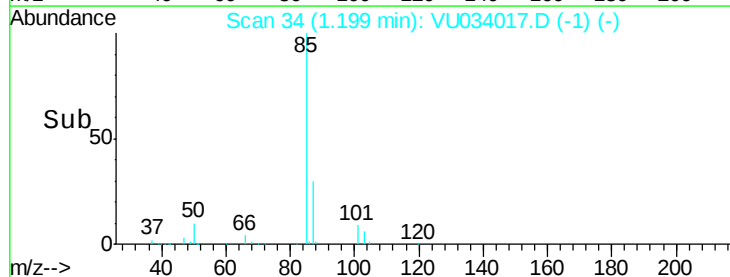
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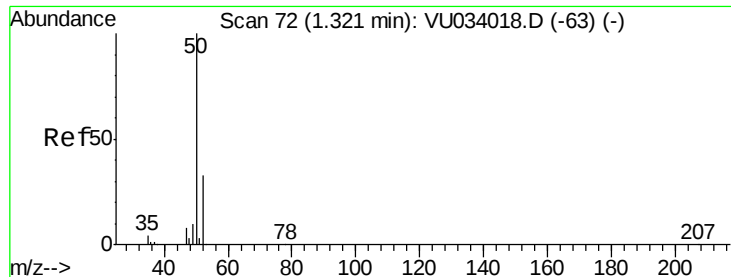
1.15

1.20

1.25

Time-->





#3

Chloromethane

Concen: 22.225 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

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ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 120938

Ion Ratio Lower Upper

50 100

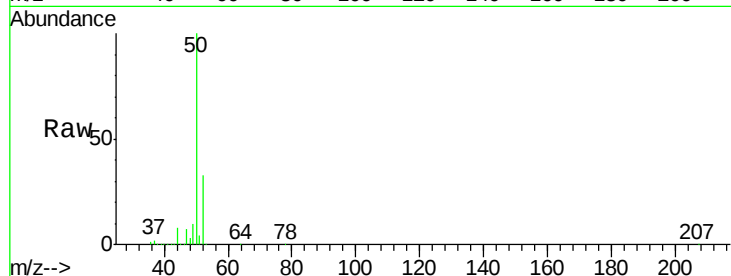
52 33.1 26.2 39.4

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Abundance Ion 49.90 (49.60 to 50.60): VU034017.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034017.D (-1) (-)

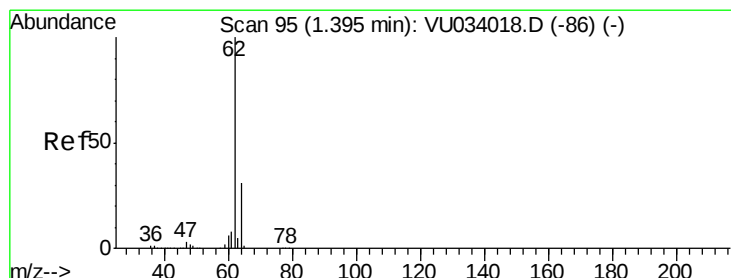
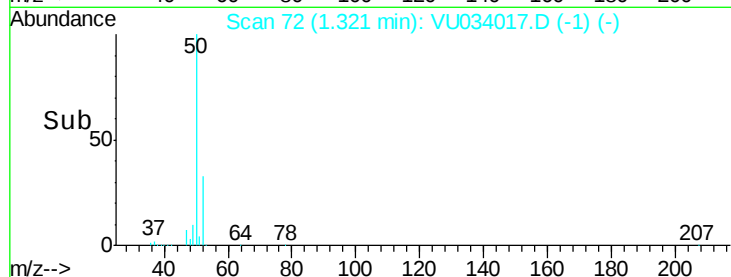
1.32

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 24.966 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034017.D

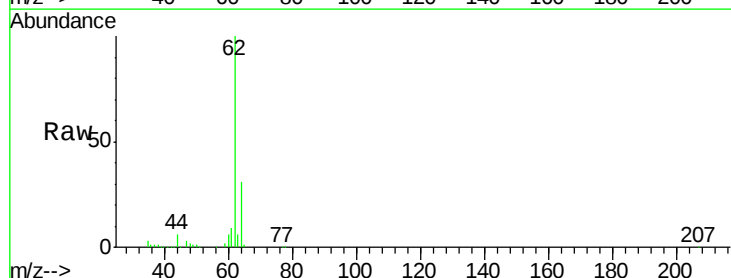
Acq: 28 Aug 2019 12:26

Tgt Ion: 62 Resp: 113435

Ion Ratio Lower Upper

62 100

64 31.5 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VU034017.D (-2) (-)

Ion 63.90 (63.60 to 64.60): VU034017.D (-2) (-)

1.40

120000

100000

80000

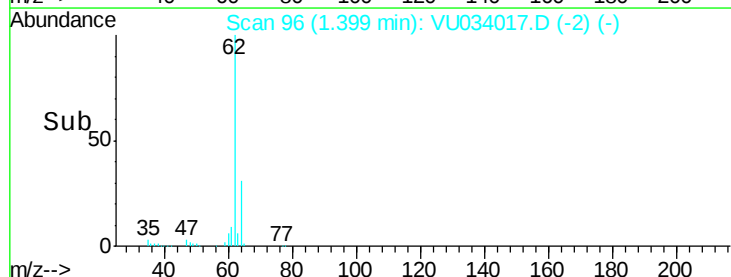
60000

40000

20000

0

Time-->





#5

Bromomethane

Concen: 24.341 ug/l

RT: 1.60 min Scan# 160

Delta R.T. 0.01 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 64596

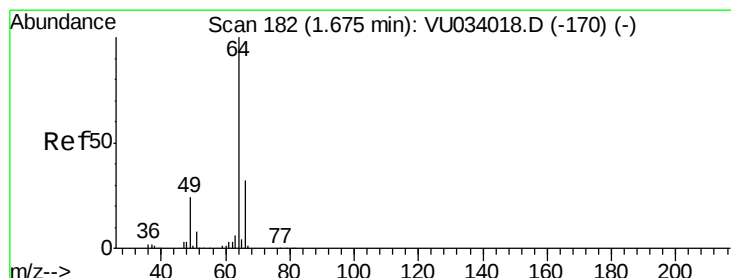
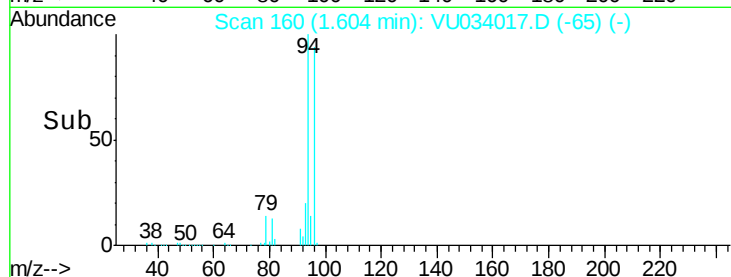
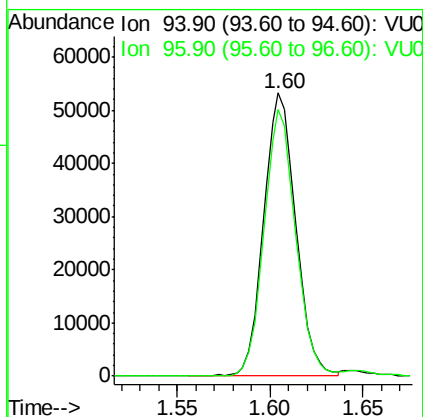
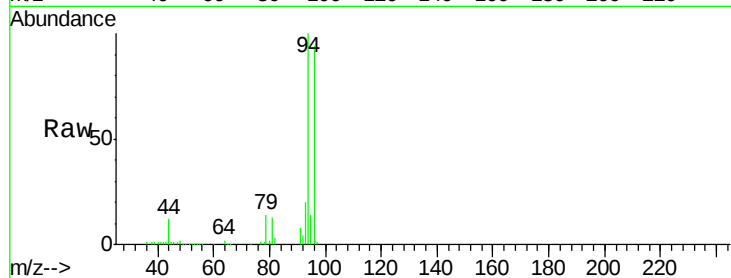
Ion Ratio Lower Upper

94 100

96 94.0 76.3 114.5

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#6

Chloroethane

Concen: 25.736 ug/l

RT: 1.68 min Scan# 184

Delta R.T. 0.01 min

Lab File: VU034017.D

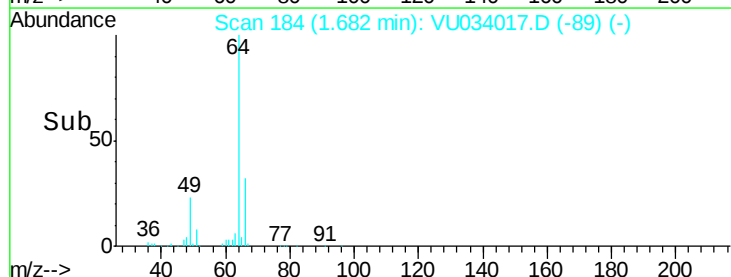
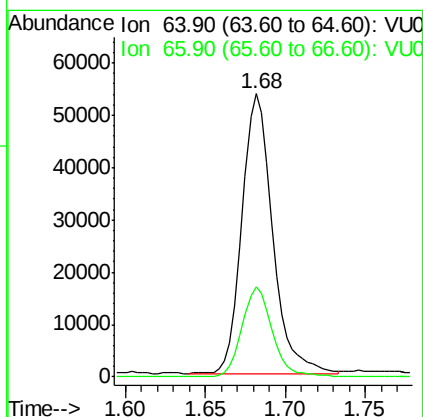
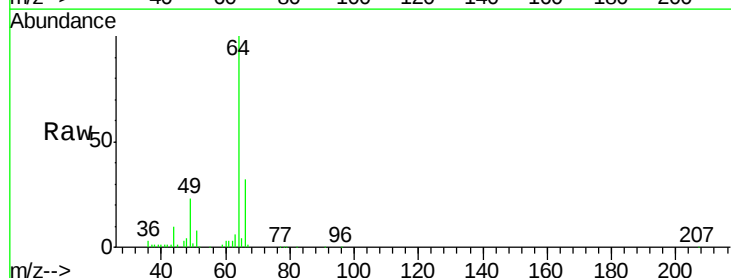
Acq: 28 Aug 2019 12:26

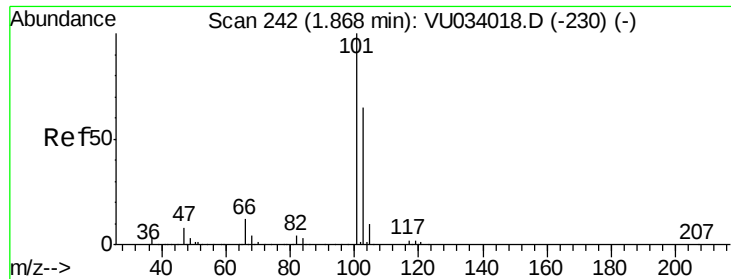
Tgt Ion: 64 Resp: 69558

Ion Ratio Lower Upper

64 100

66 32.2 25.5 38.3





#7

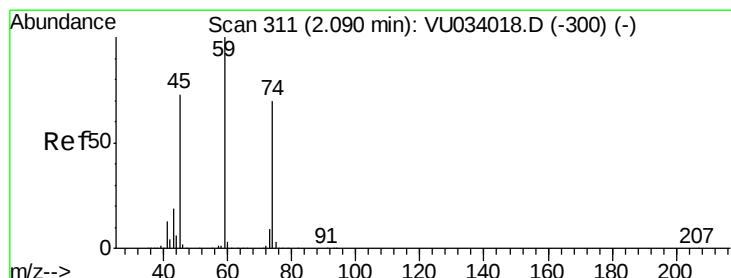
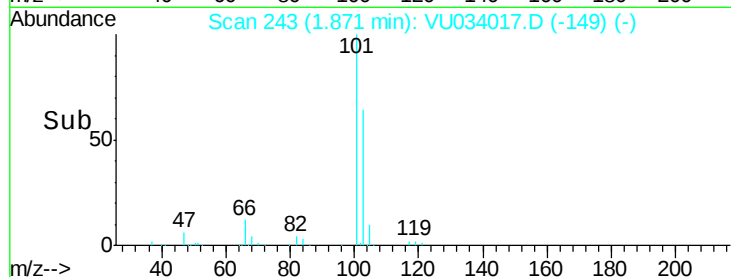
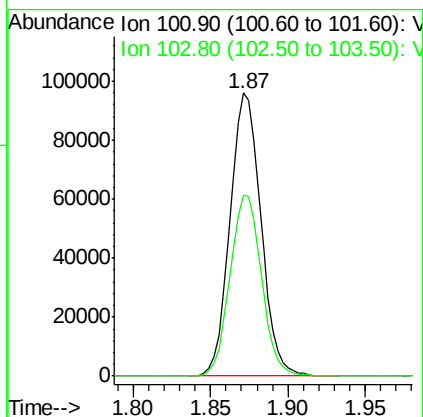
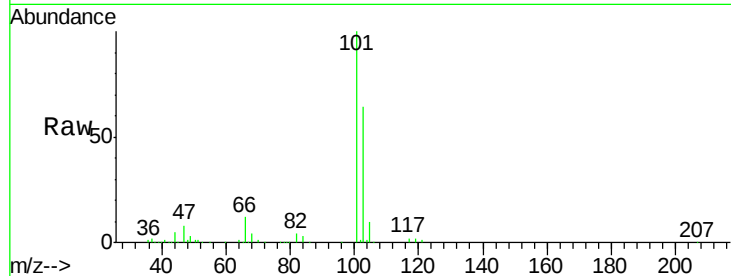
Trichlorofluoromethane
Concen: 22.958 ug/l
RT: 1.87 min Scan# 243
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		132588		
103	63.9	52.1		78.1	

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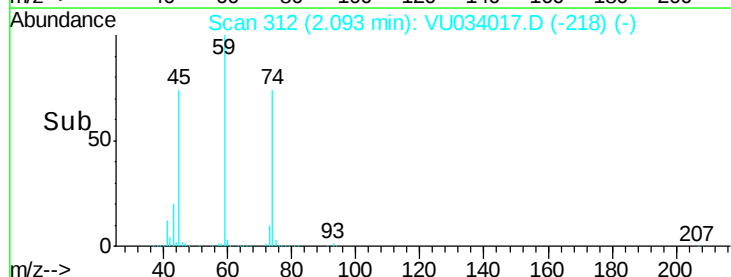
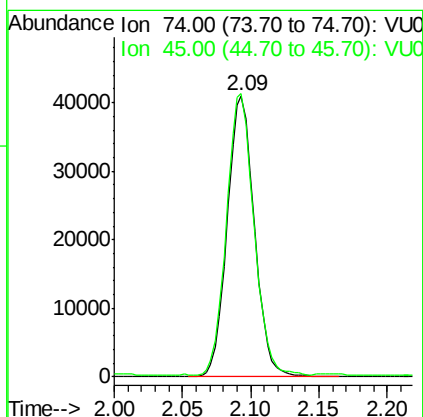
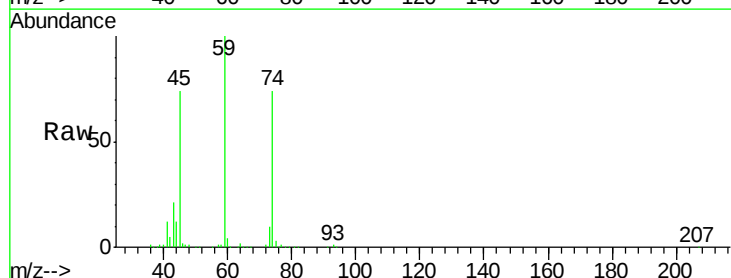
MMDadoda
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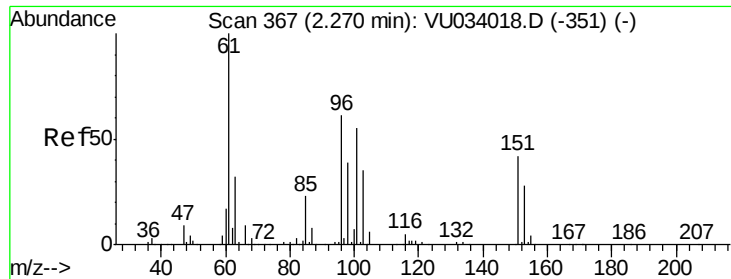


#8

Diethyl Ether
Concen: 25.333 ug/l
RT: 2.09 min Scan# 312
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		56845		
45	100.9	51.8		155.5	





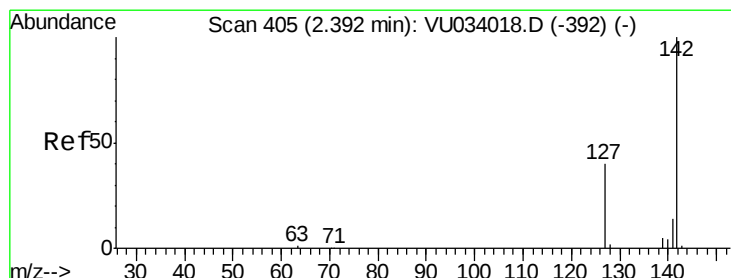
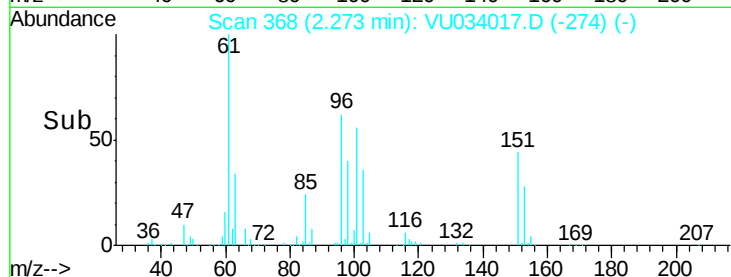
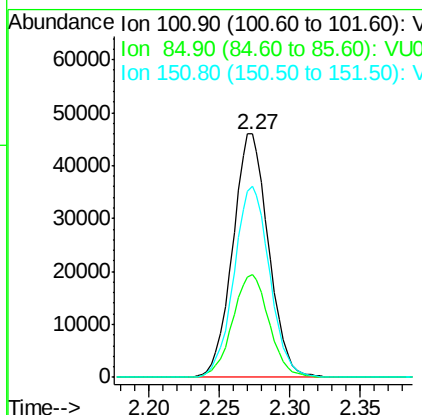
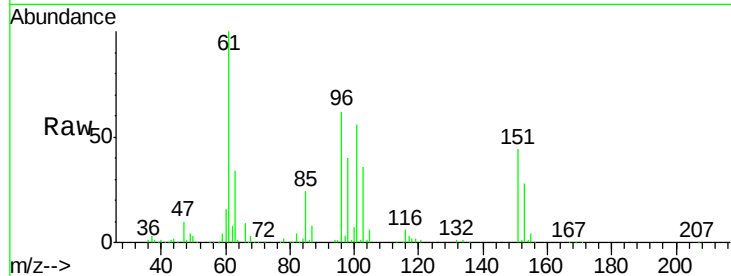
#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.383 ug/l
RT: 2.27 min Scan# 368
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
85	42.9	34.2	51.2
151	78.2	61.4	92.2

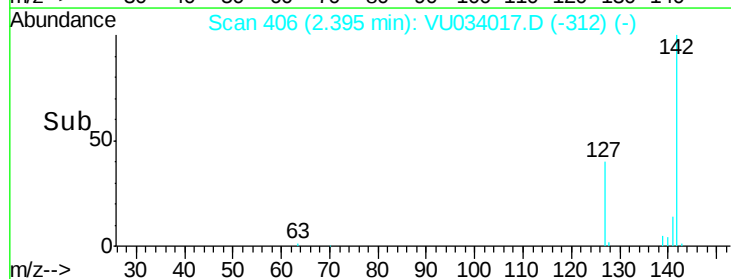
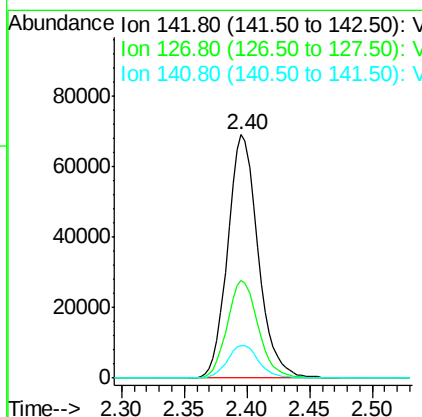
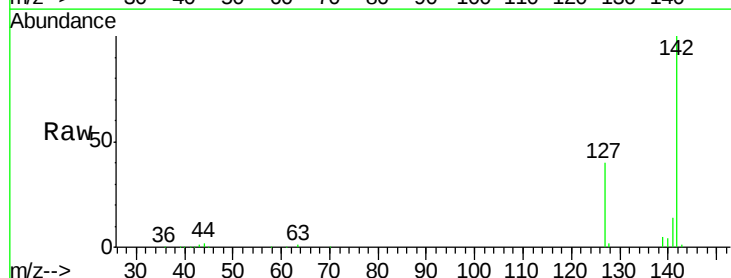
Manual Integrations
APPROVED

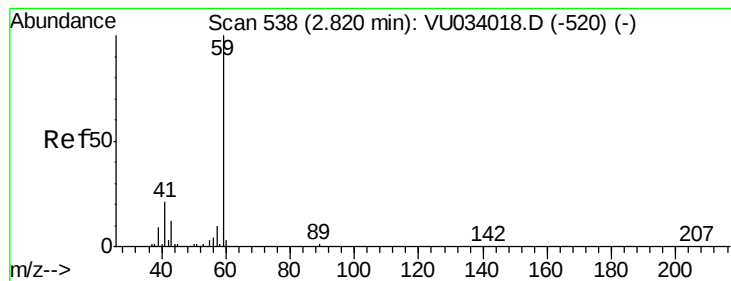
MMDadoda
8/29/2019 8:27:35 AM



#10
Methyl Iodide
Concen: 21.182 ug/l
RT: 2.40 min Scan# 406
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.8	32.6	48.8
141	13.9	11.3	16.9





#11

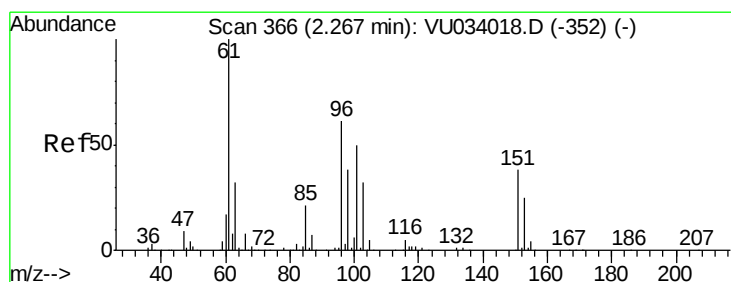
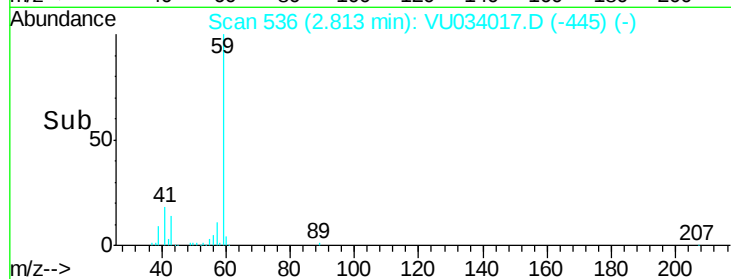
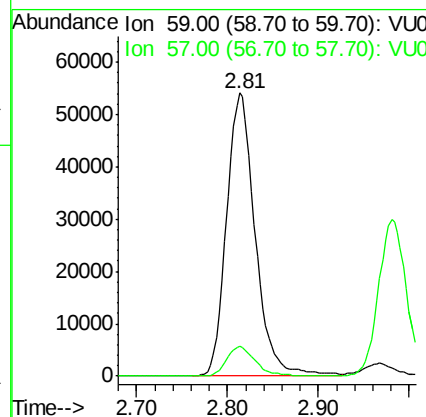
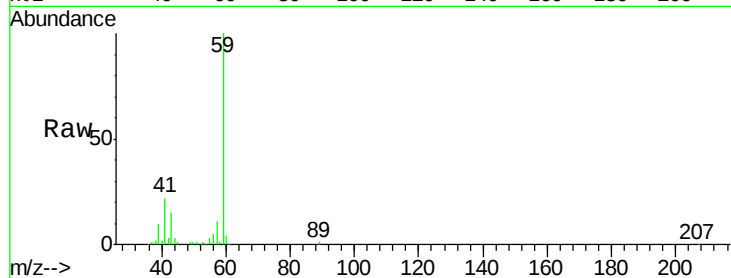
Tert butyl alcohol
 Concen: 96.063 ug/l
 RT: 2.81 min Scan# 536
 Delta R.T. -0.01 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	59	Resp	118746
Ion Ratio	100	Lower	Upper
57	10.4	8.0	12.0

Manual Integrations
 APPROVED

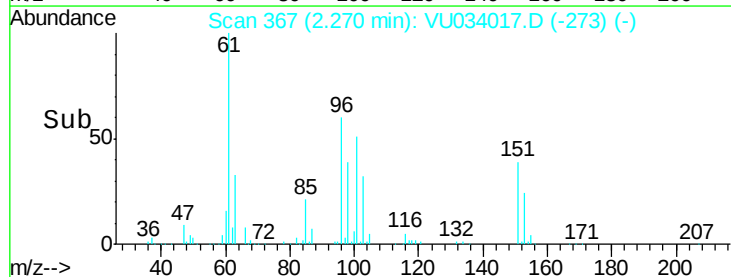
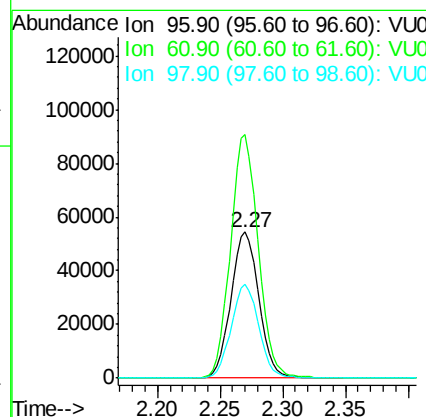
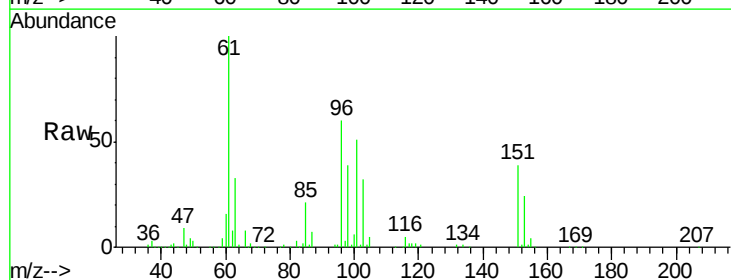
MMDadoda
 8/29/2019 8:27:35 AM

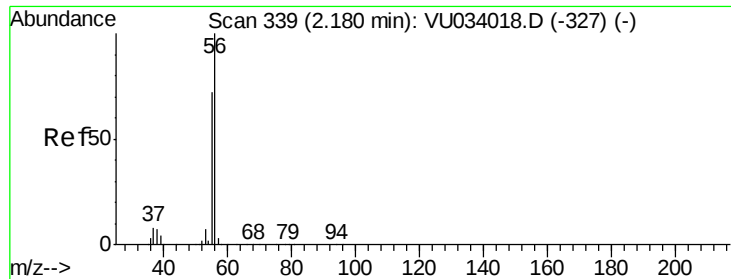


#12

1,1-Dichloroethene
 Concen: 22.025 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Tgt Ion	96	Resp	84079
Ion Ratio	100	Lower	Upper
61	167.0	131.3	196.9
98	64.4	50.3	75.5





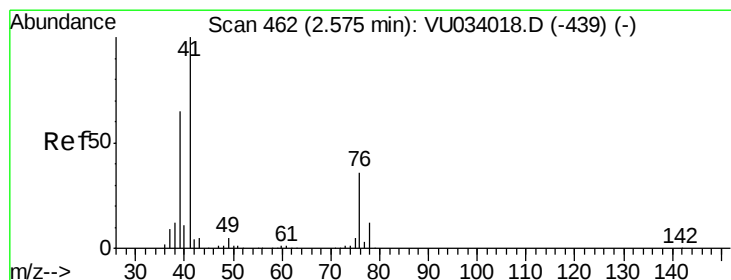
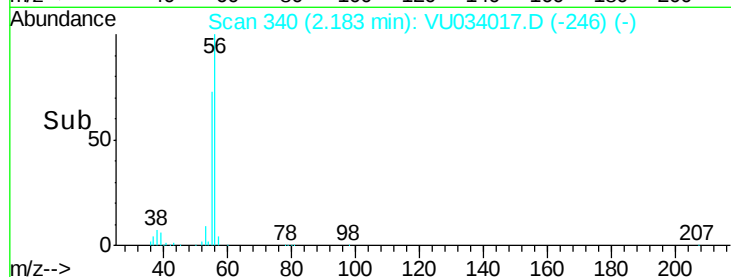
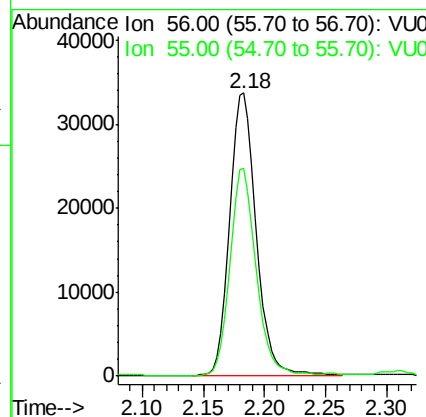
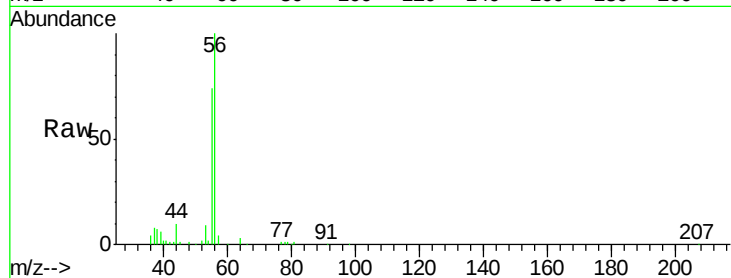
#13
Acrolein
Concen: 124.529 ug/l
RT: 2.18 min Scan# 340
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
55	71.7	57.1	85.7

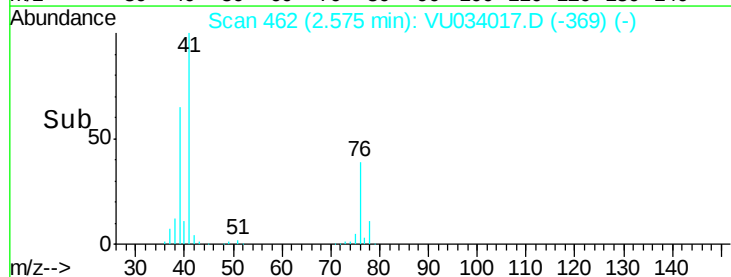
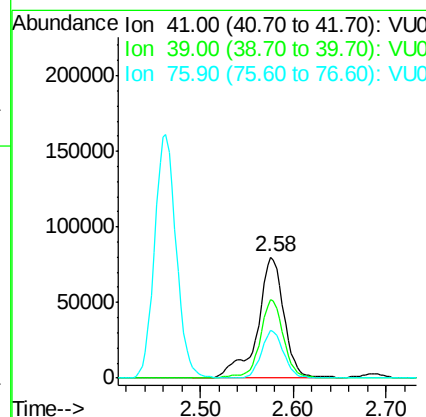
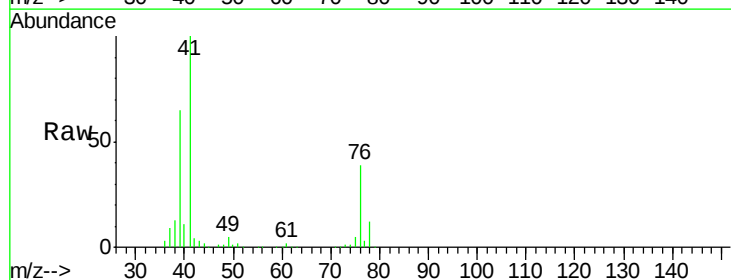
Manual Integrations
APPROVED

MMDadoda
8/29/2019 8:27:35 AM



#14
Allyl chloride
Concen: 23.223 ug/l
RT: 2.58 min Scan# 462
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
41	100		
39	57.3	46.8	70.2
76	32.7	26.6	40.0





#15

Acrylonitrile

Concen: 114.361 ug/l

RT: 2.92 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

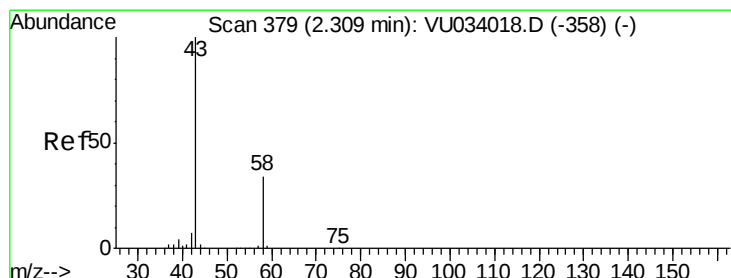
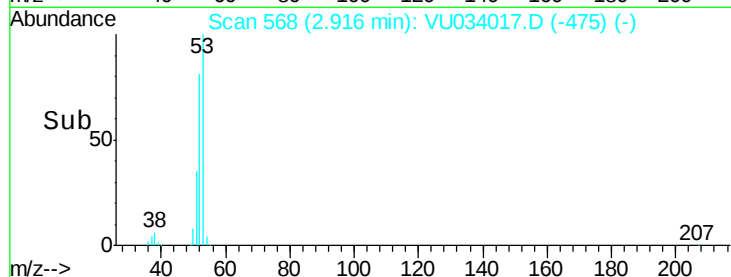
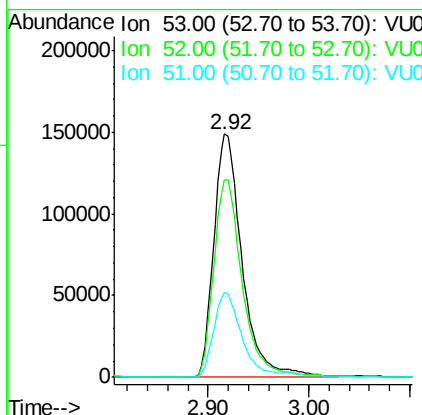
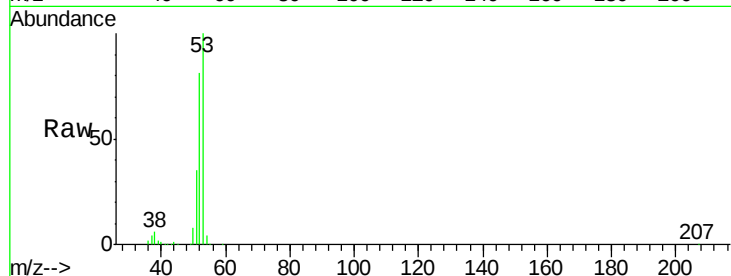
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	291062
Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.7	98.5
51	35.9	27.9	41.9

Manual Integrations
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MMDadoda
8/29/2019 8:27:35 AM



#16

Acetone

Concen: 119.203 ug/l

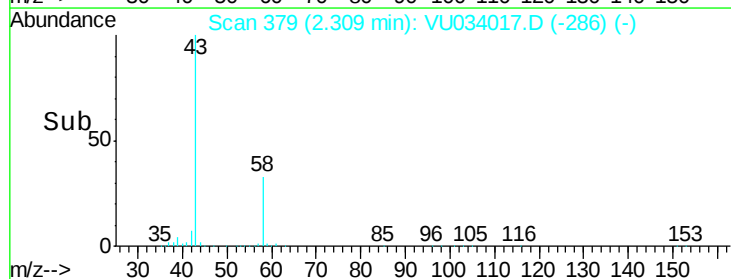
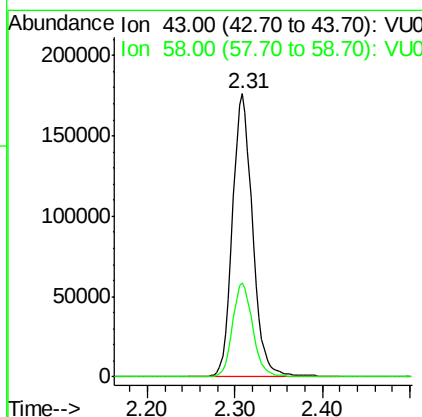
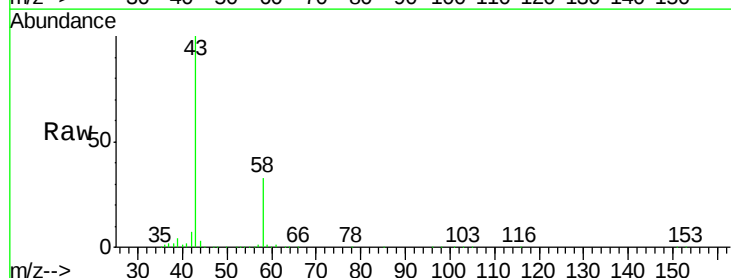
RT: 2.31 min Scan# 379

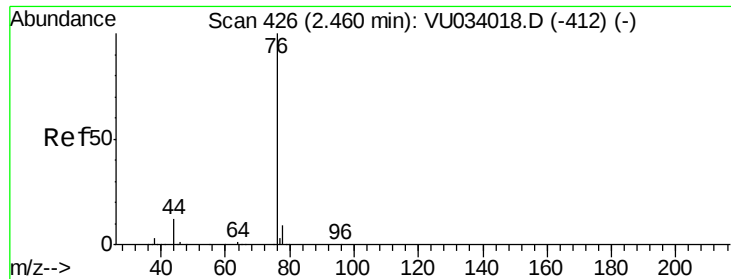
Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	43	Resp:	279293
Ion	Ratio	Lower	Upper
43	100		
58	33.4	26.8	40.2





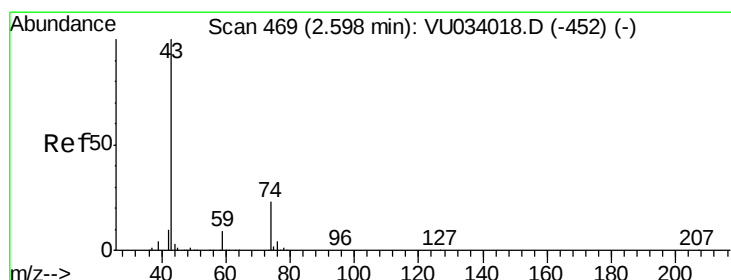
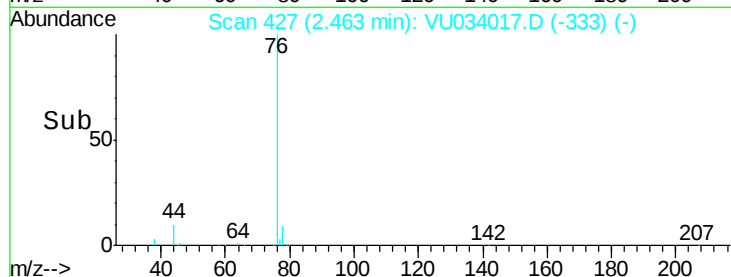
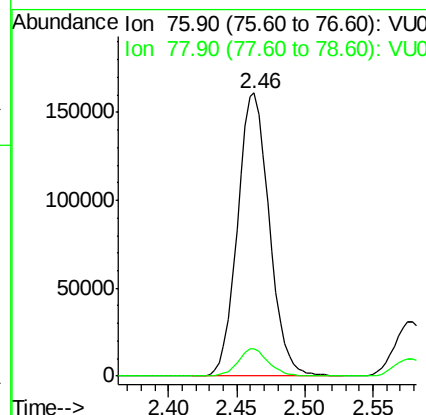
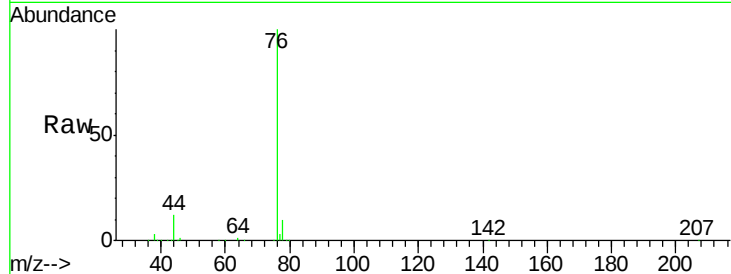
#17
Carbon Disulfide
Concen: 20.843 ug/l
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.1	10.7

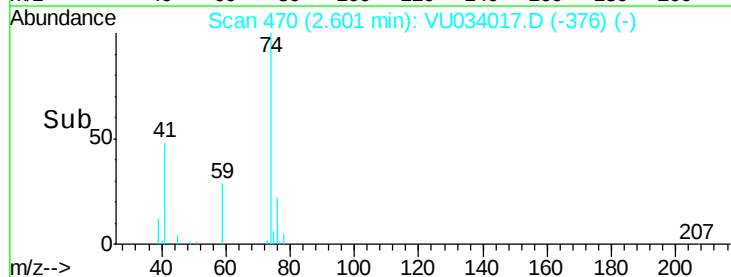
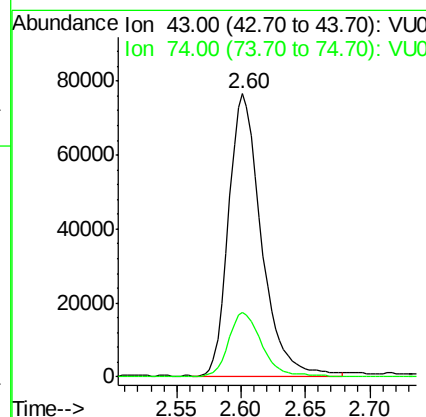
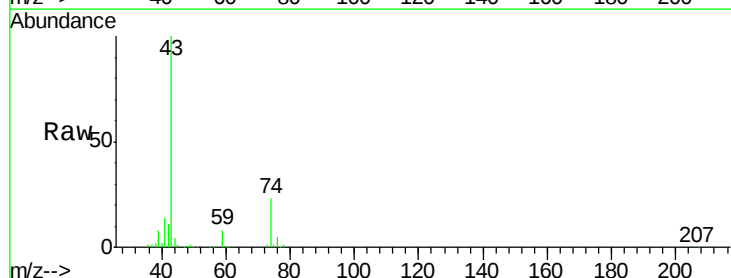
Manual Integrations
APPROVED

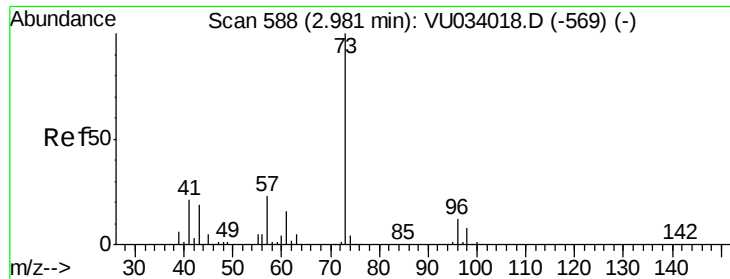
MMDadoda
8/29/2019 8:27:35 AM



#18
Methyl Acetate
Concen: 23.351 ug/l
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.5	19.2	28.8





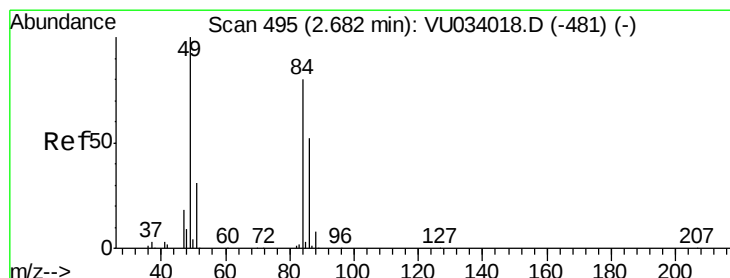
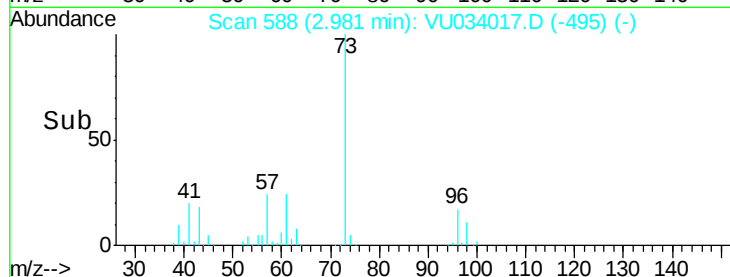
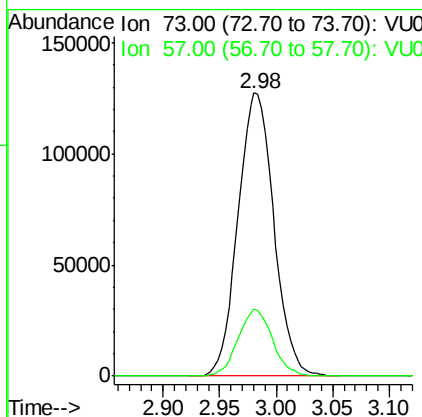
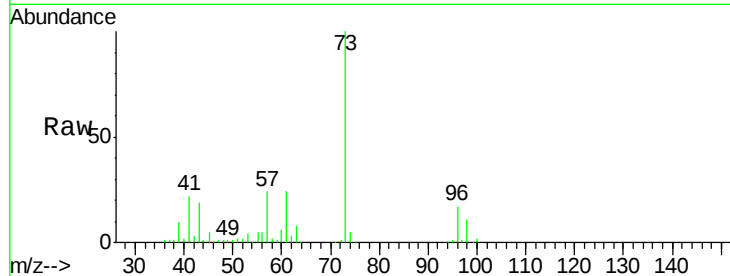
#19
Methyl tert-butyl Ether
Concen: 21.978 ug/l
RT: 2.98 min Scan# 588
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.5	18.3	27.5

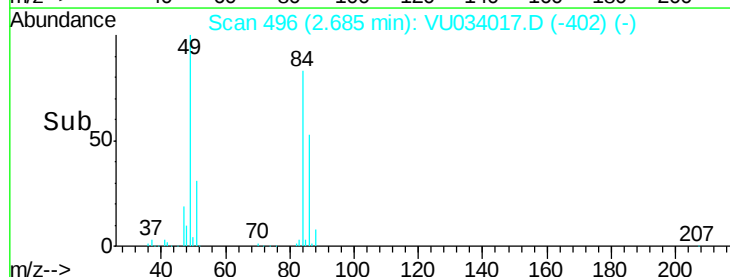
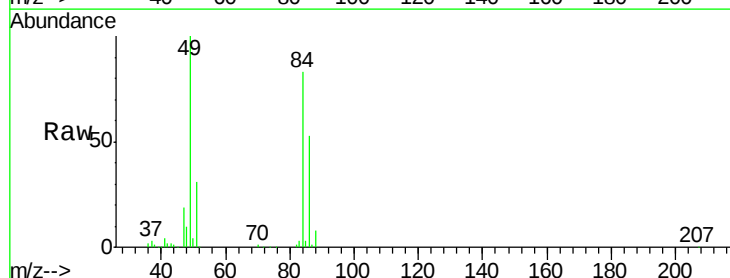
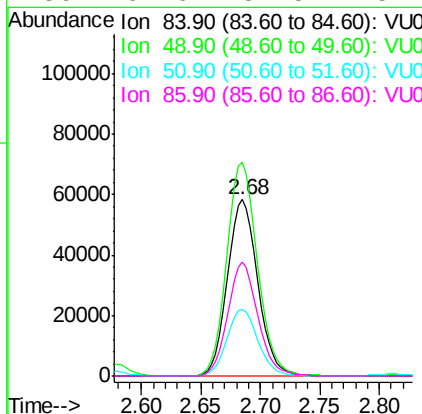
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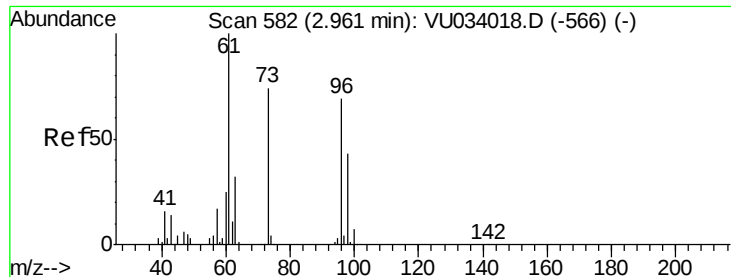
MMDadoda
8/29/2019 8:27:35 AM



#20
Methylene Chloride
Concen: 21.260 ug/l
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
84	100		
49	121.2	100.2	150.4
51	37.8	30.8	46.2
86	64.6	52.5	78.7





#21

trans-1,2-Dichloroethene

Concen: 21.298 ug/l

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

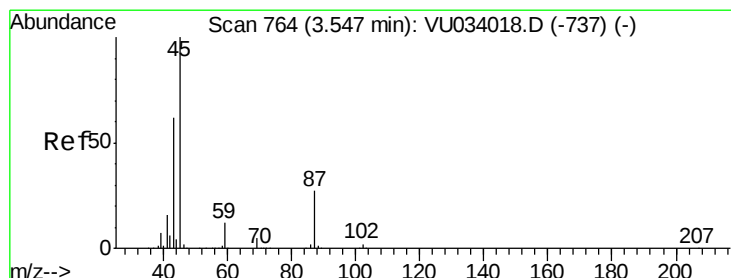
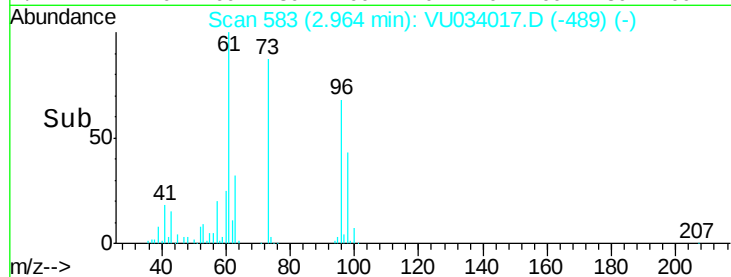
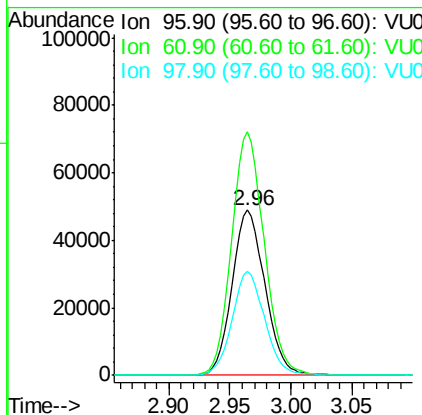
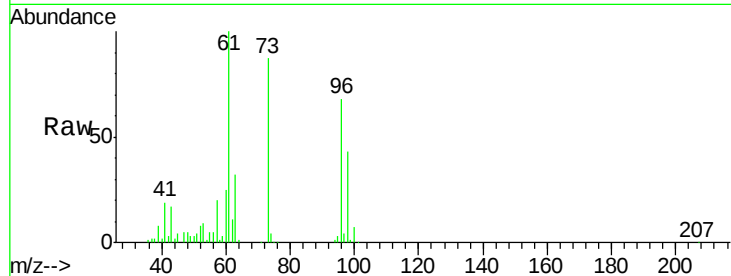
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	91921
Ion	Ratio	Lower	Upper
96	100		
61	147.3	115.5	173.3
98	63.0	50.1	75.1

Manual Integrations
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#22

Diisopropyl ether

Concen: 23.736 ug/l

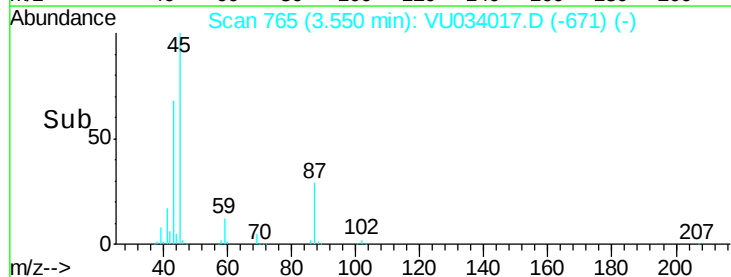
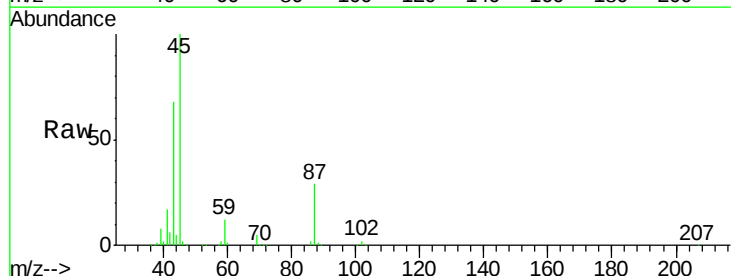
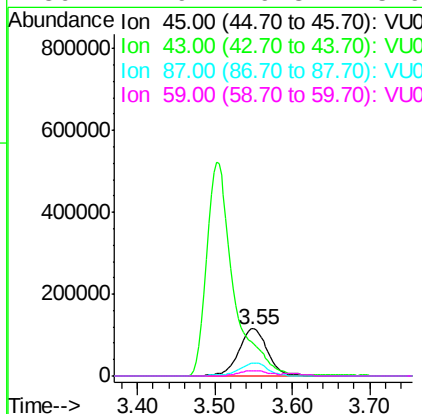
RT: 3.55 min Scan# 765

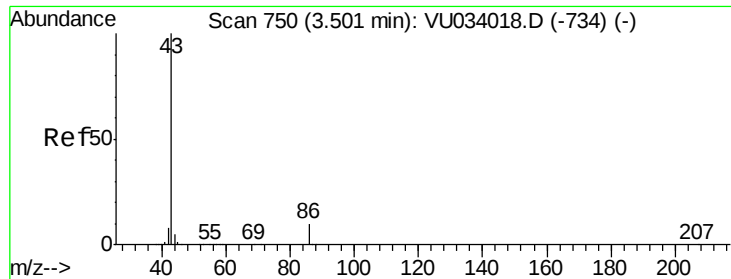
Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	45	Resp:	298947
Ion	Ratio	Lower	Upper
45	100		
43	67.5	49.7	74.5
87	28.5	21.8	32.8
59	11.9	9.3	13.9





#23

Vinyl Acetate

Concen: 119.085 ug/l

RT: 3.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1278098

Ion Ratio Lower Upper

43 100

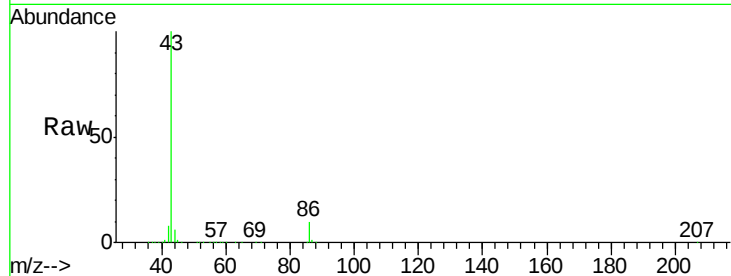
86 10.3 8.3 12.5

Manual Integrations

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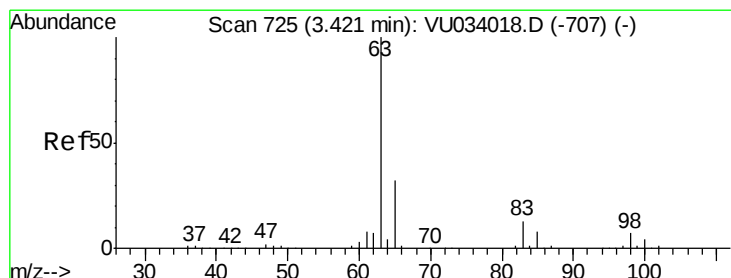
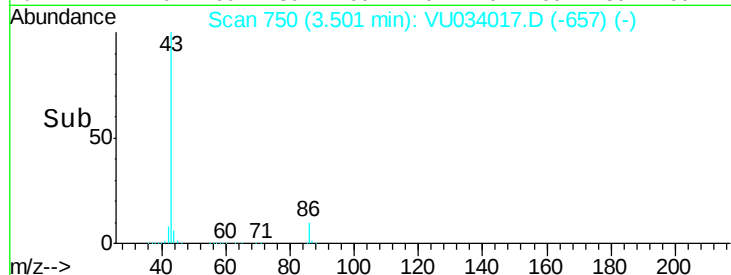
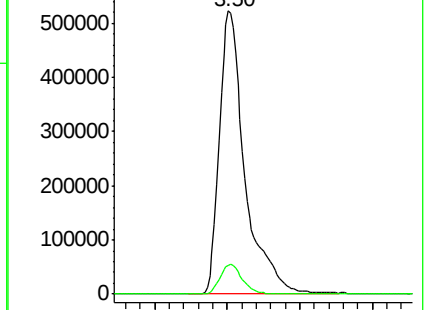
MMDadoda

8/29/2019 8:27:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VU034017.D (-657) (-)

Ion 86.00 (85.70 to 86.70): VU034017.D (-657) (-)



#24

1,1-Dichloroethane

Concen: 22.003 ug/l

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

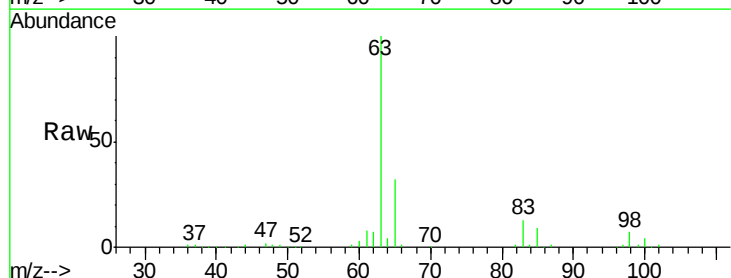
Tgt Ion: 63 Resp: 171134

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.8

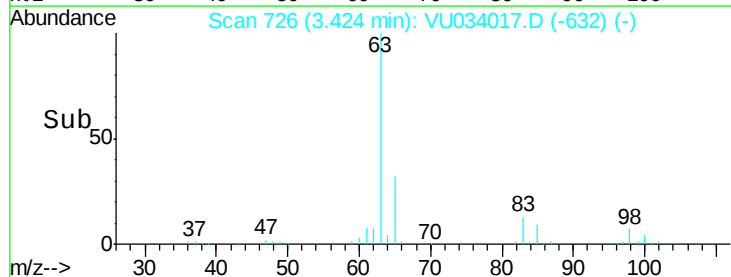
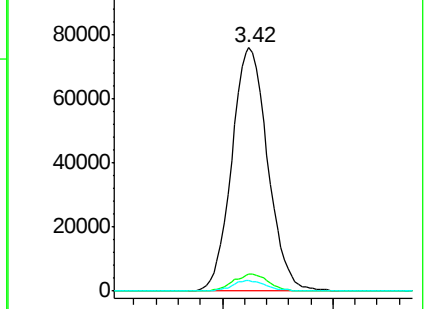
100 4.3 2.0 6.0

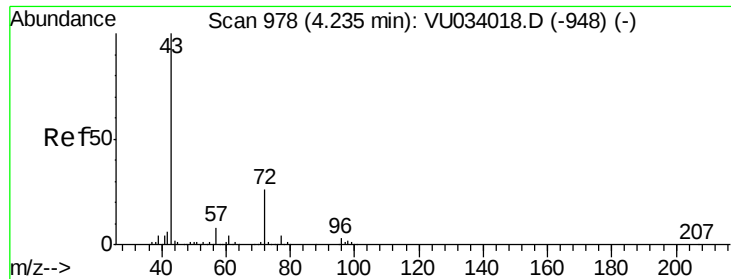


Abundance Ion 62.90 (62.60 to 63.60): VU034017.D (-632) (-)

Ion 97.90 (97.60 to 98.60): VU034017.D (-632) (-)

Ion 99.90 (99.60 to 100.60): VU034017.D (-632) (-)





#25

2-Butanone

Concen: 118.343 ug/l

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 397978

Ion Ratio Lower Upper

43 100

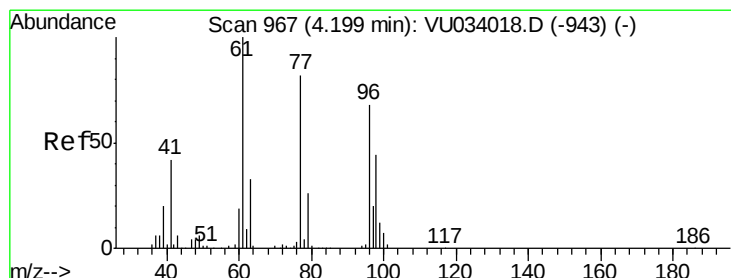
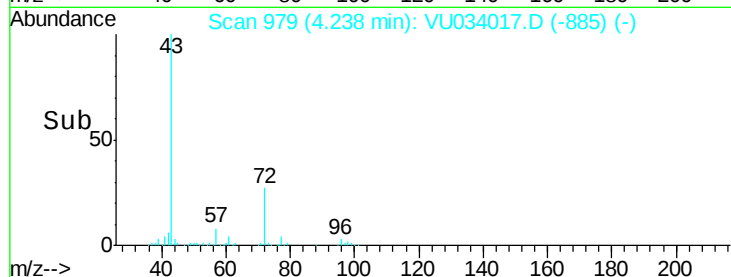
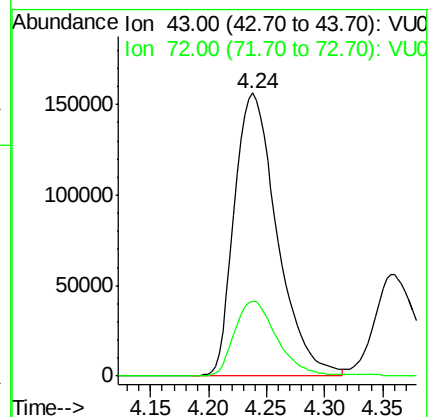
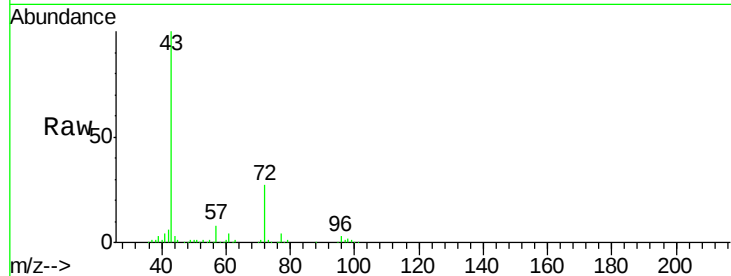
72 26.5 21.2 31.8

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 21.295 ug/l

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU034017.D

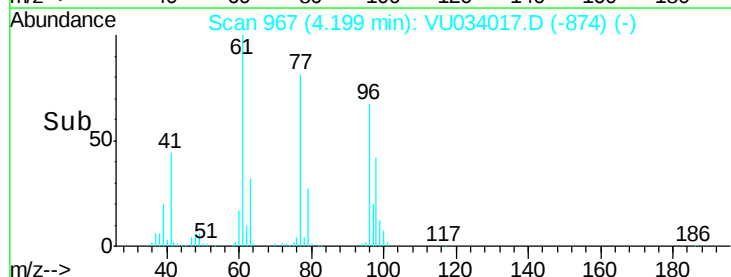
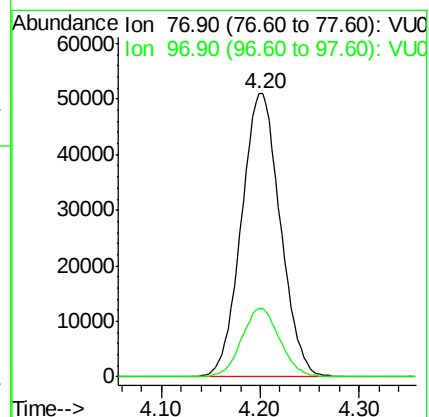
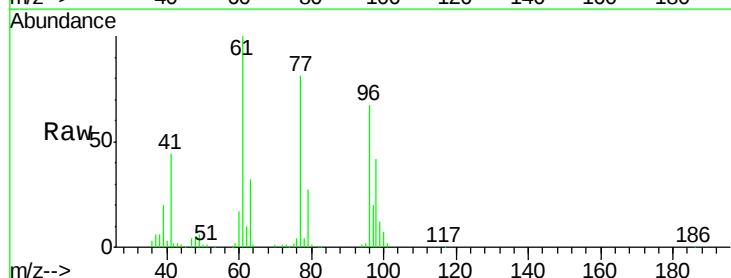
Acq: 28 Aug 2019 12:26

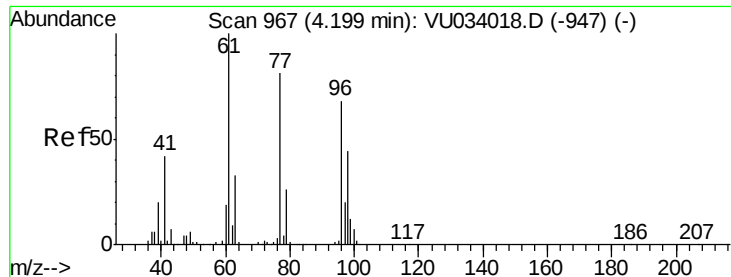
Tgt Ion: 77 Resp: 139277

Ion Ratio Lower Upper

77 100

97 23.6 11.6 34.7





#27

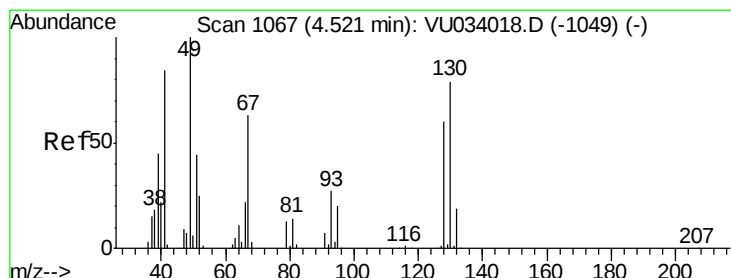
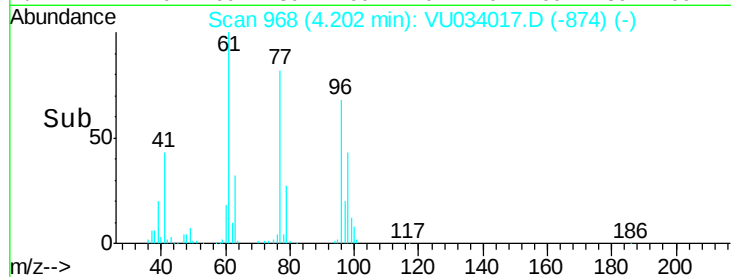
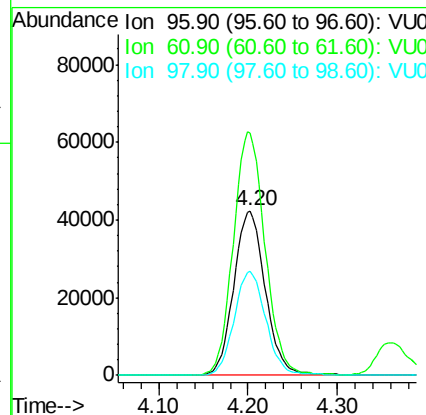
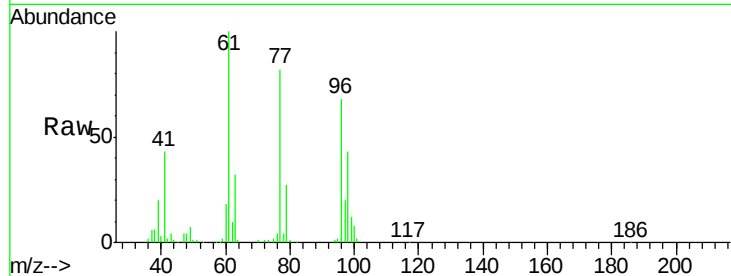
cis-1,2-Dichloroethene
Concen: 21.409 ug/l
RT: 4.20 min Scan# 968
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.5	0.0	303.0
98	63.2	0.0	129.2

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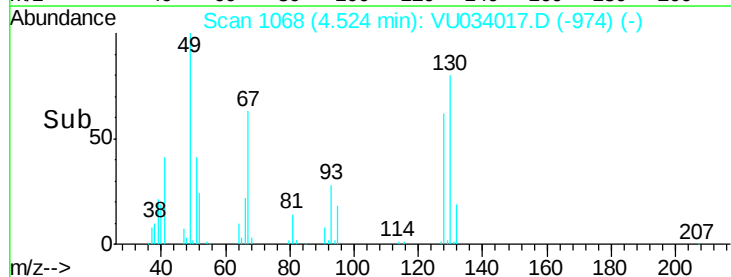
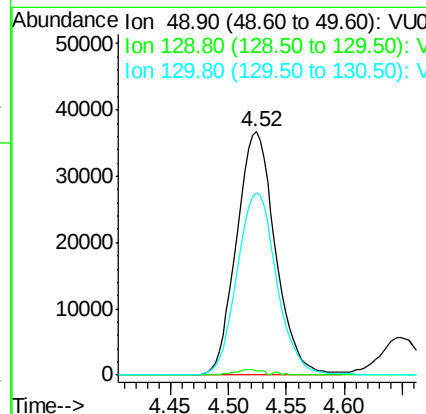
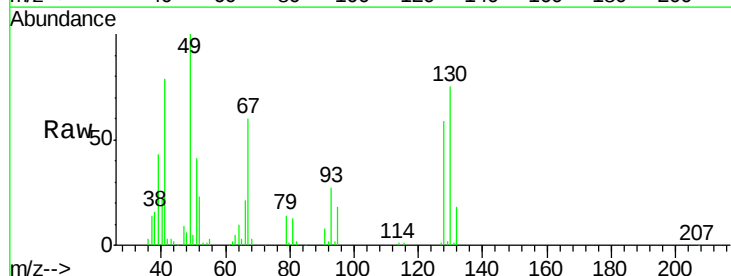
MMDadoda
8/29/2019 8:27:35 AM

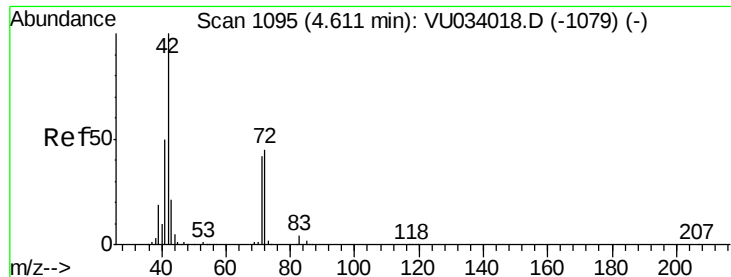


#28

Bromochloromethane
Concen: 23.719 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.6
130	76.2	62.8	94.2





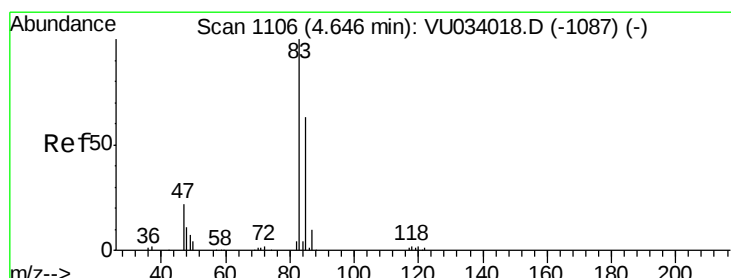
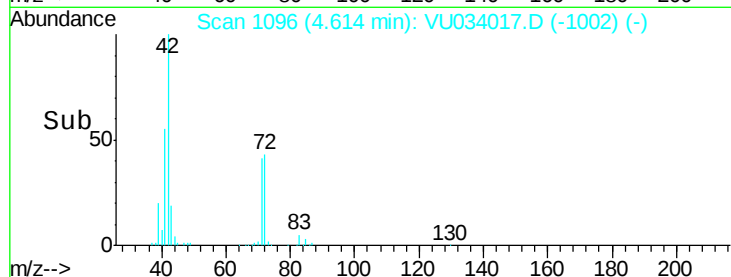
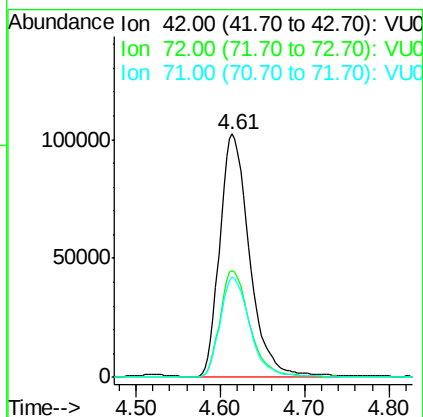
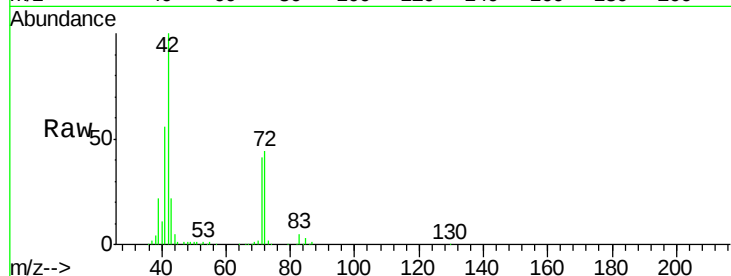
#29
Tetrahydrofuran
Concen: 119.314 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	35.8	53.6
71	41.6	34.0	51.0

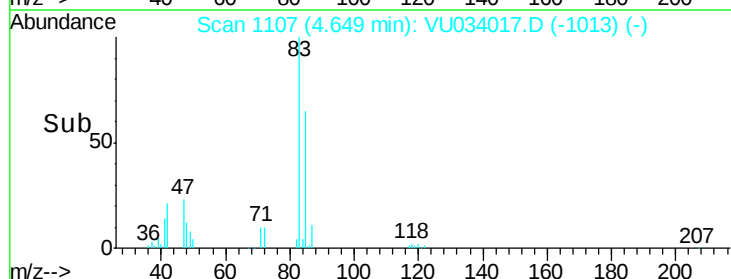
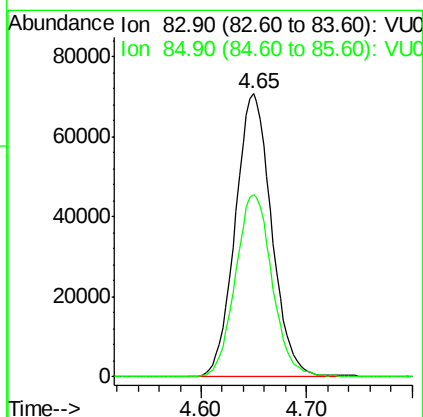
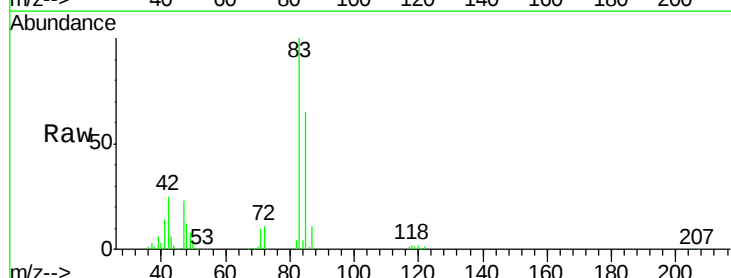
Manual Integrations
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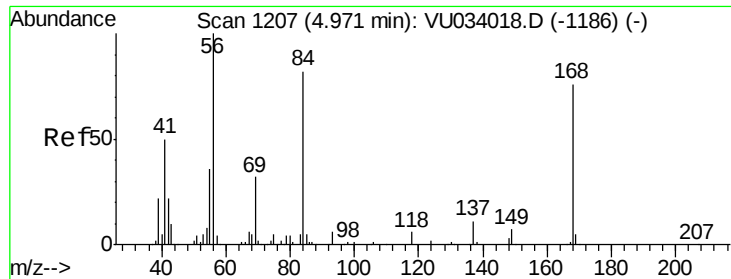
MMDadoda
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#30
Chloroform
Concen: 21.404 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.7	76.1





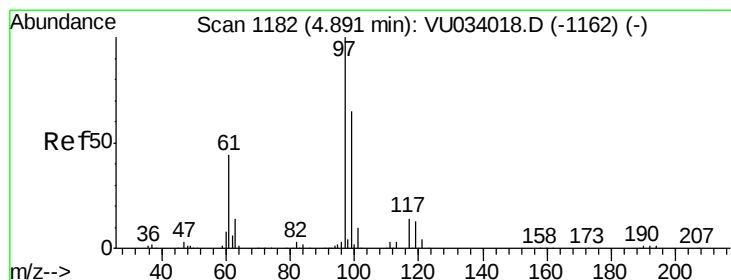
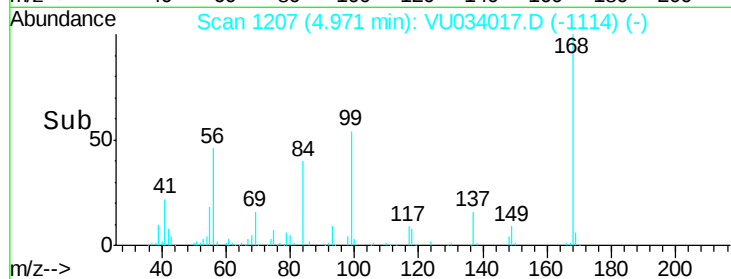
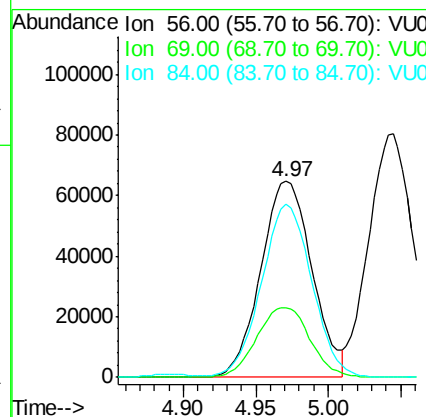
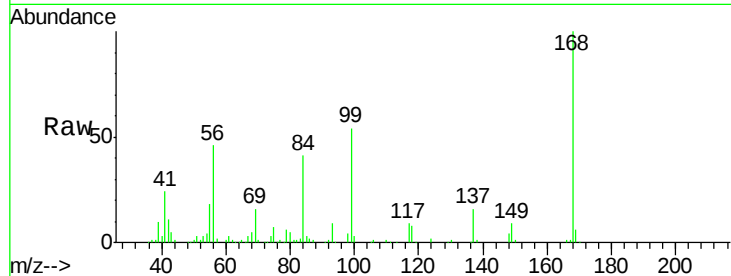
#31
Cyclohexane
Concen: 22.149 ug/l
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.2	25.4	38.0
84	87.5	65.8	98.8

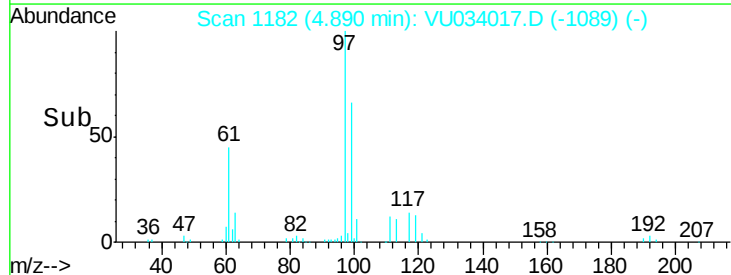
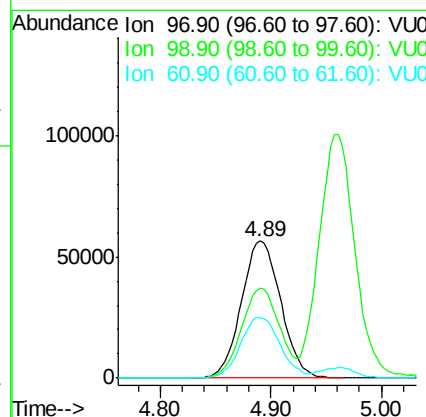
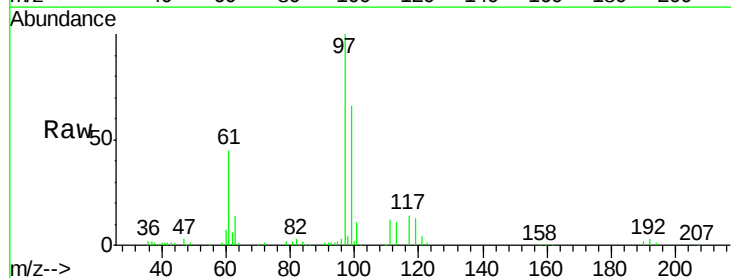
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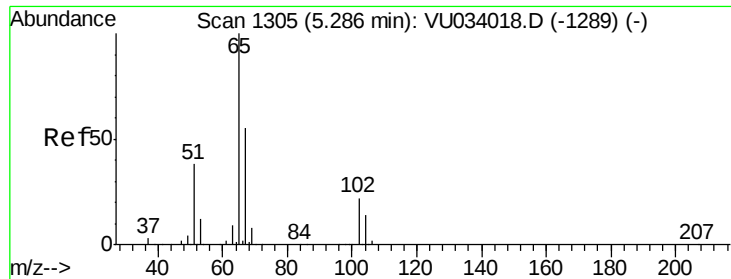
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 21.117 ug/l
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.8	77.6
61	44.7	35.3	52.9





#33

1,2-Dichloroethane-d4

Concen: 21.965 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 106301

Ion Ratio Lower Upper

65 100

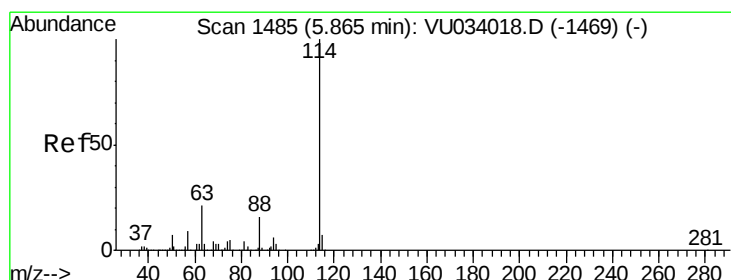
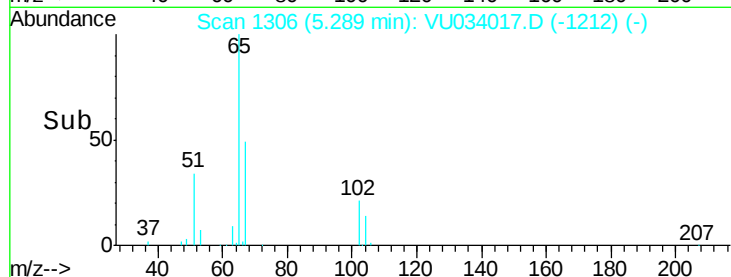
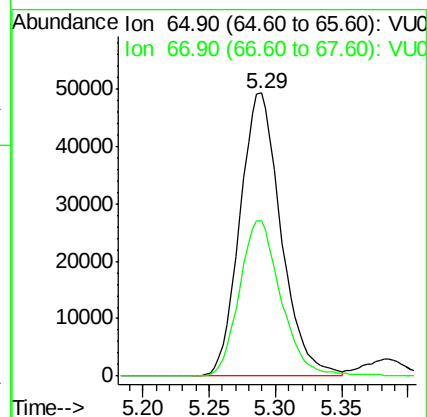
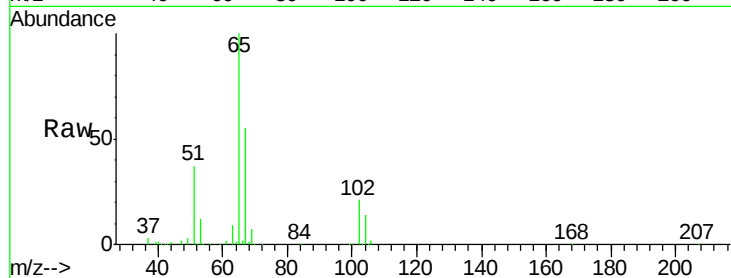
67 55.3 0.0 110.6

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

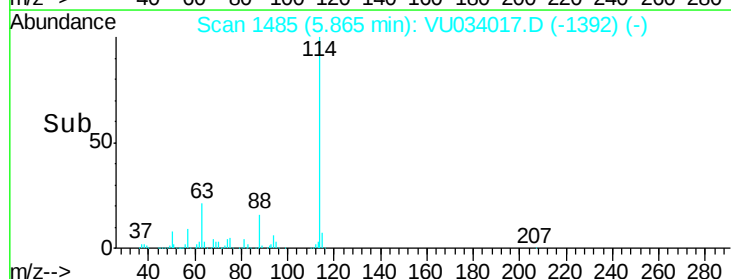
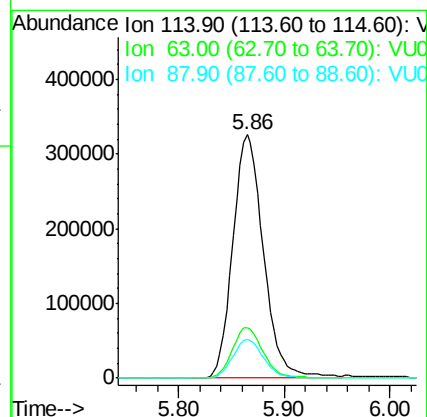
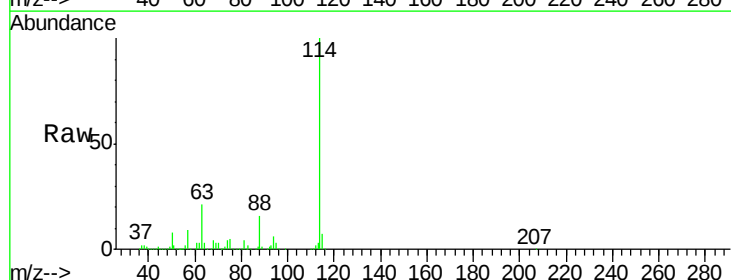
Tgt Ion: 114 Resp: 654859

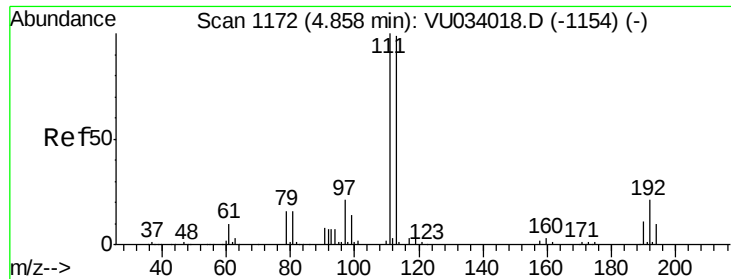
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.0

88 16.0 0.0 32.0





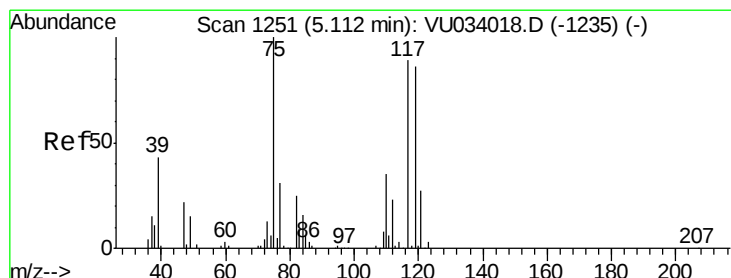
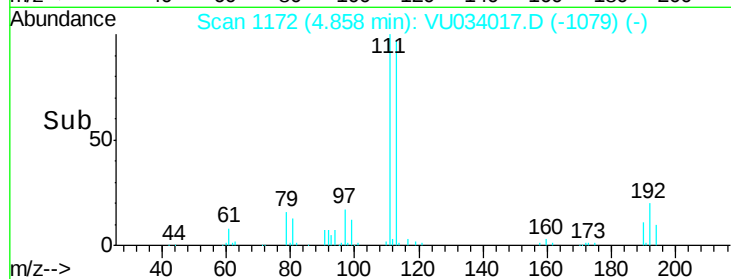
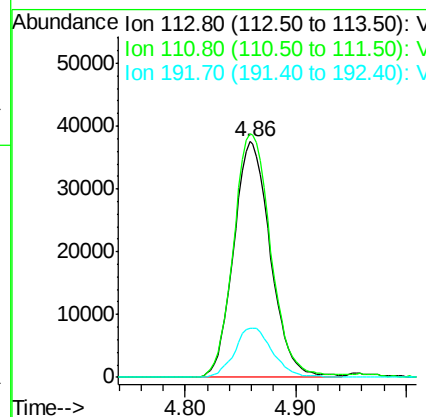
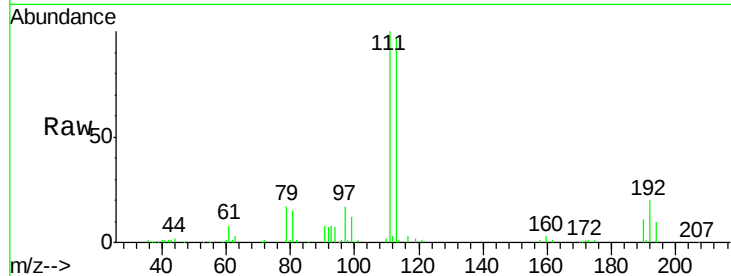
#35
 Dibromofluoromethane
 Concen: 19.443 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	104.5	81.7	122.5	
192	21.4	17.1	25.7	

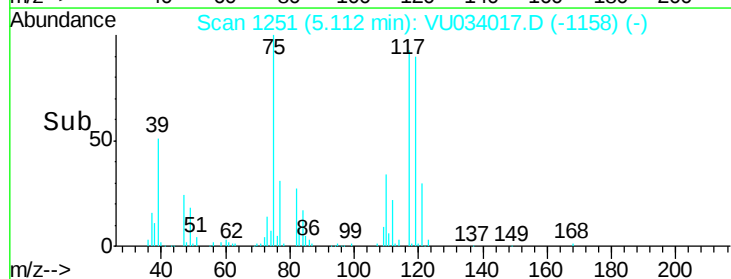
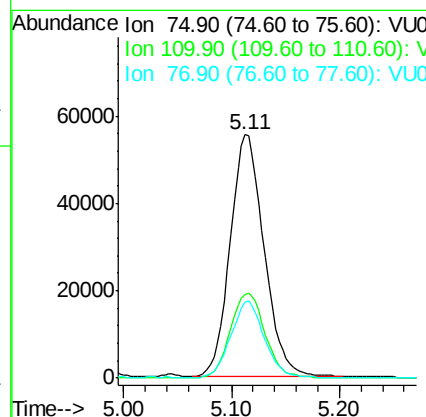
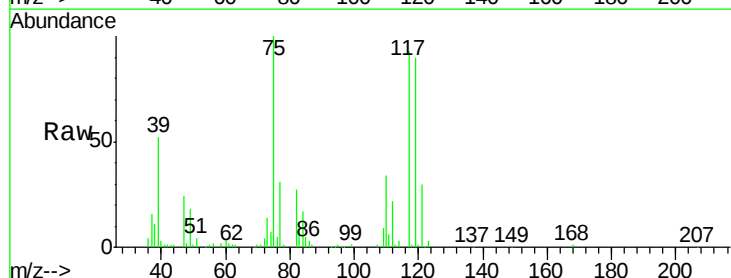
Manual Integrations
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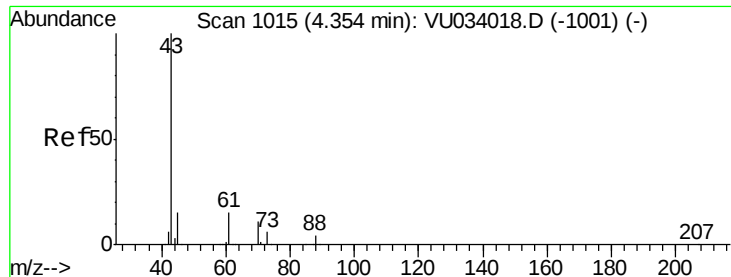
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 19.708 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.2	17.8	53.5	
77	31.1	25.0	37.4	





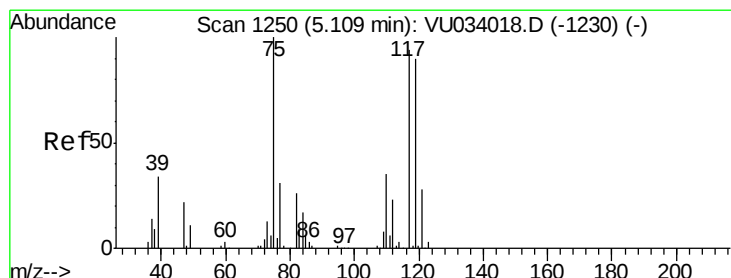
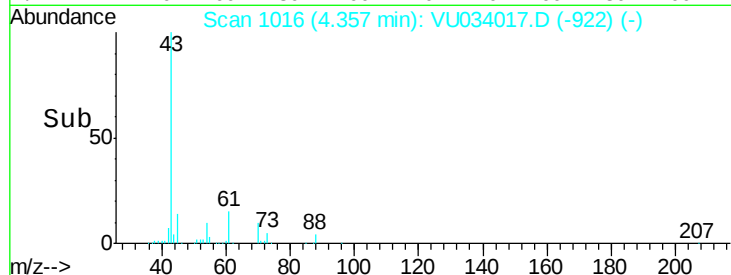
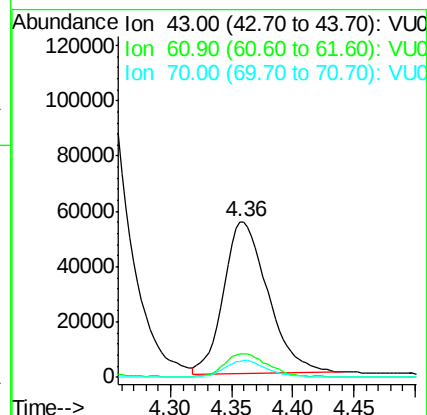
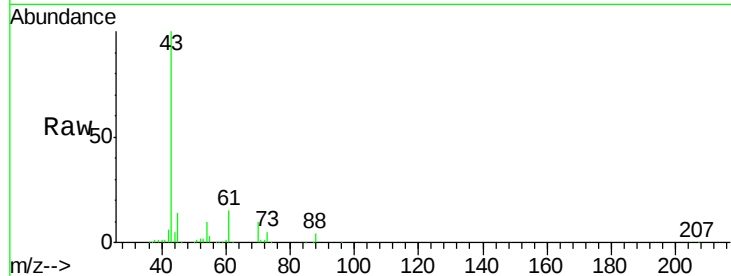
#37
Ethyl Acetate
Concen: 22.227 ug/l
RT: 4.36 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.5	17.3
70	10.8	8.6	12.8

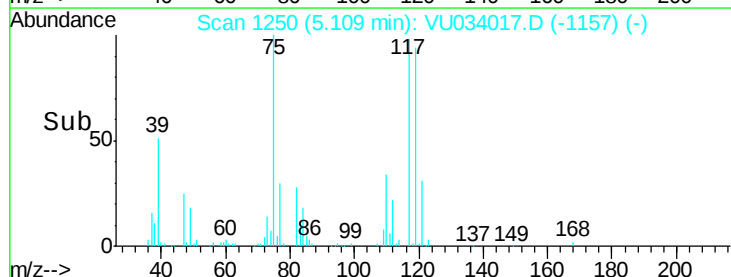
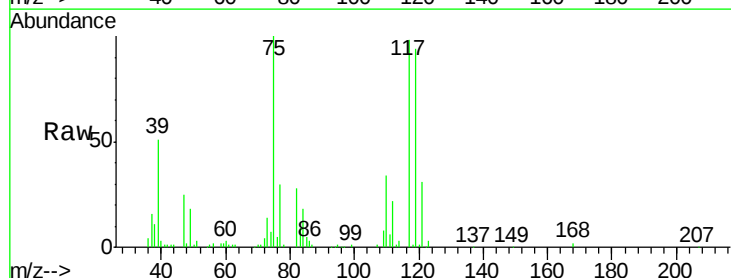
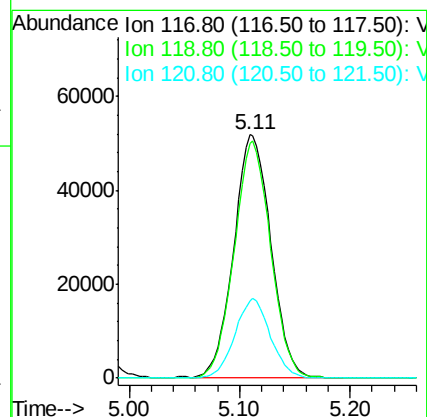
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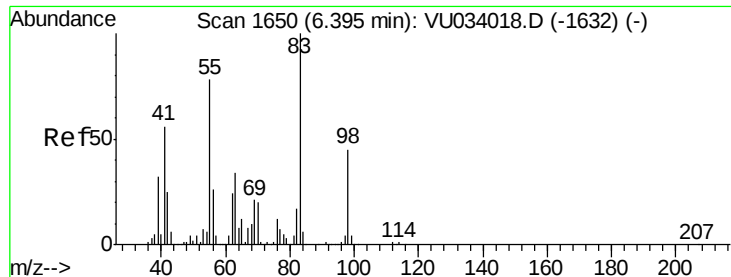
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#38
Carbon Tetrachloride
Concen: 19.463 ug/l
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.0	115.4
121	31.6	23.9	35.9





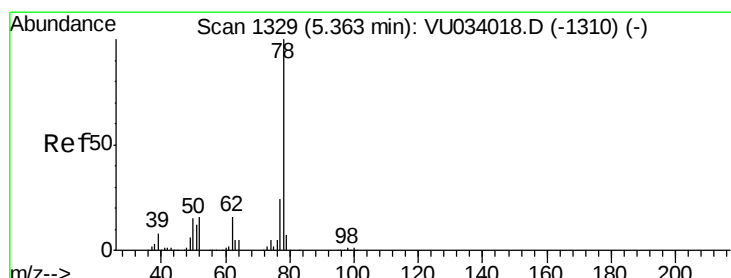
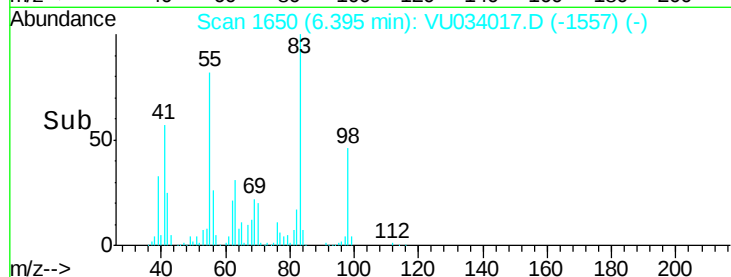
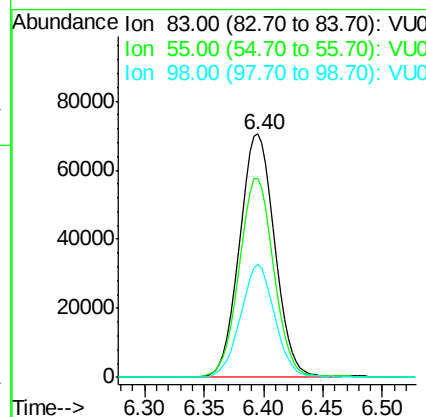
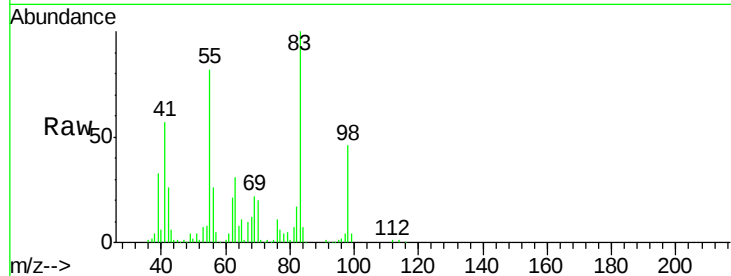
#39
Methylvlcvclohexane
Concen: 20.006 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	145035		
55	81.8	62.3	93.5	
98	46.3	36.2	54.2	

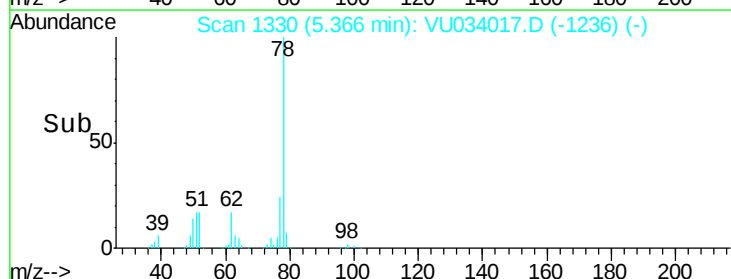
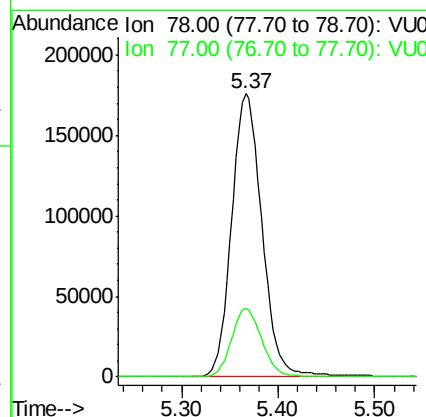
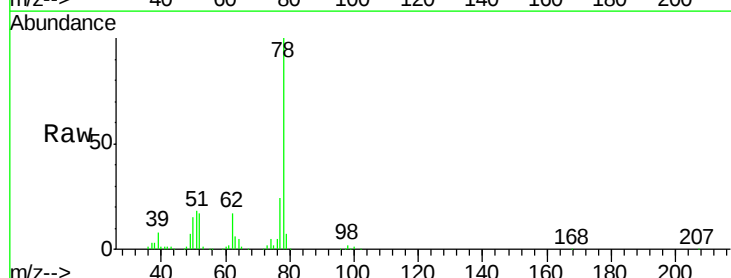
Manual Integrations
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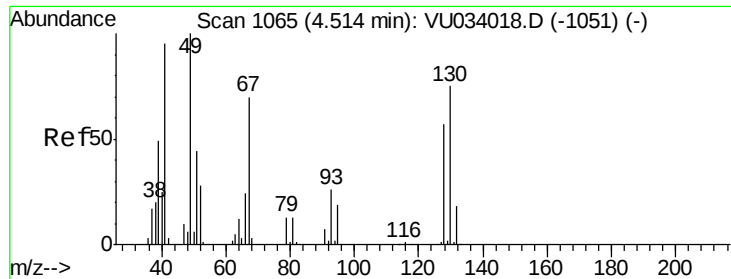
MMDadoda
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#40
Benzene
Concen: 20.966 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	382837		
77	24.0	19.0	28.6	





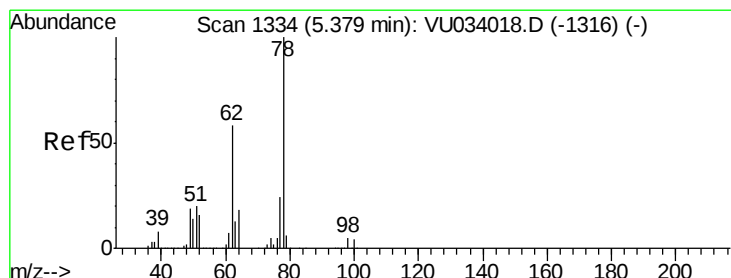
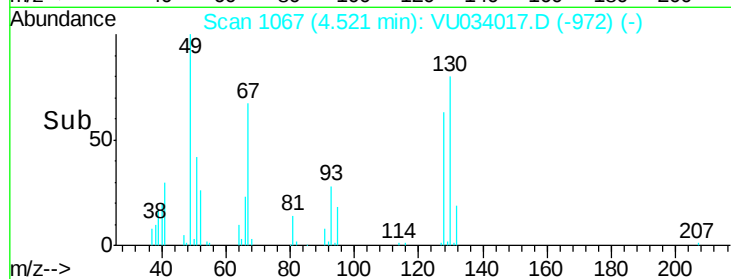
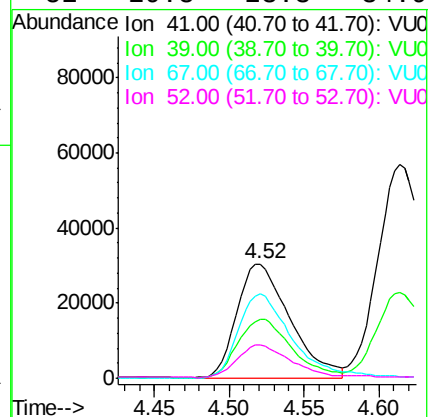
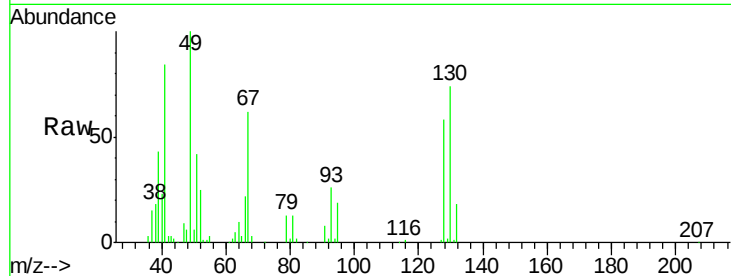
#41
Methacrylonitrile
Concen: 22.876 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.4	42.1	63.1	
67	76.5	61.0	91.4	
52	29.8	23.3	34.9	

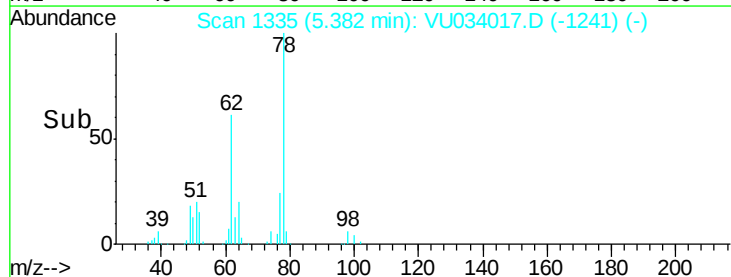
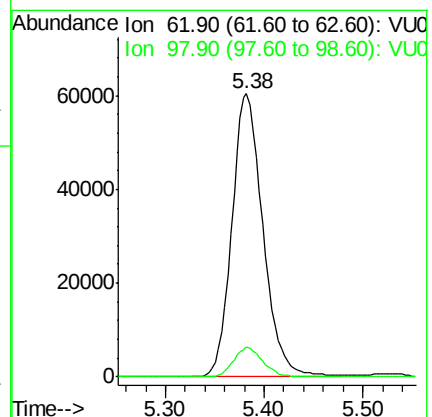
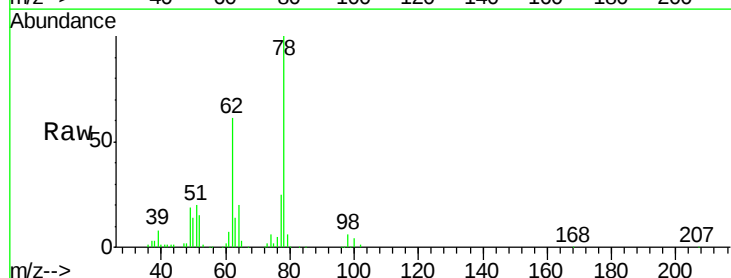
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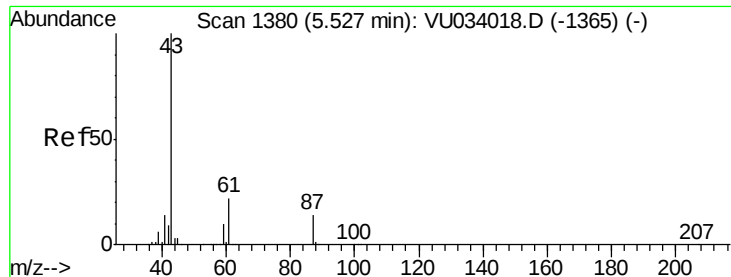
MMDadoda
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#42
1,2-Dichloroethane
Concen: 21.405 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.9	0.0	18.2	





#43

Isopropyl Acetate

Concen: 22.315 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

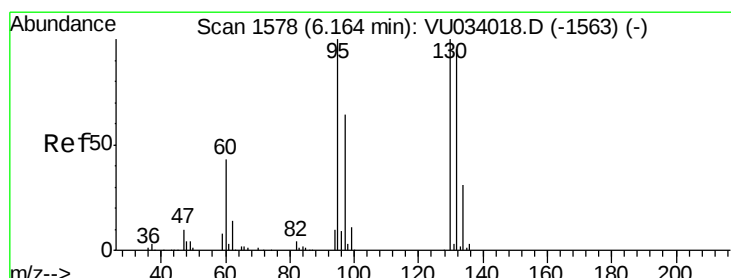
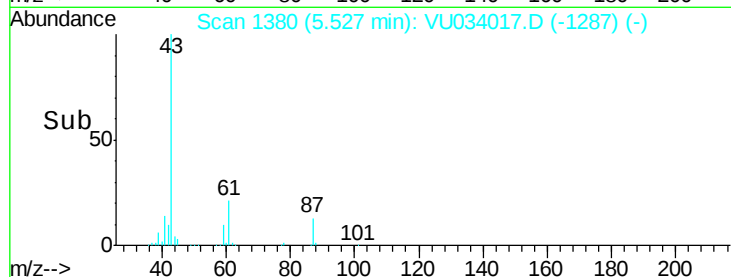
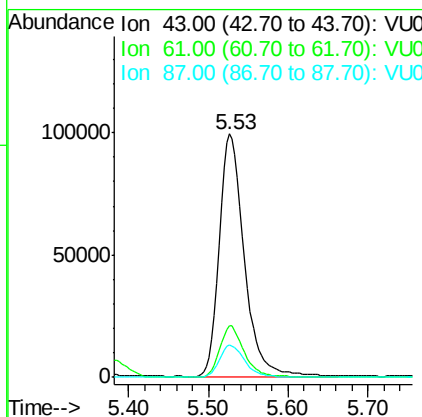
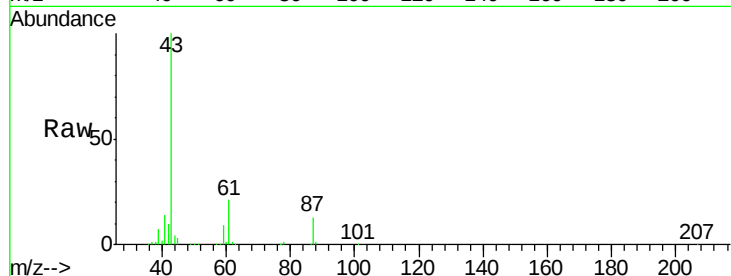
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	214611
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: 19.539 ug/l

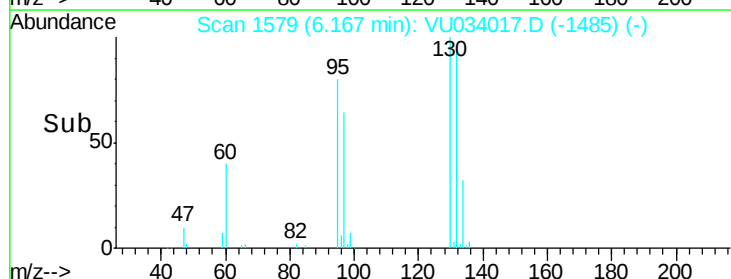
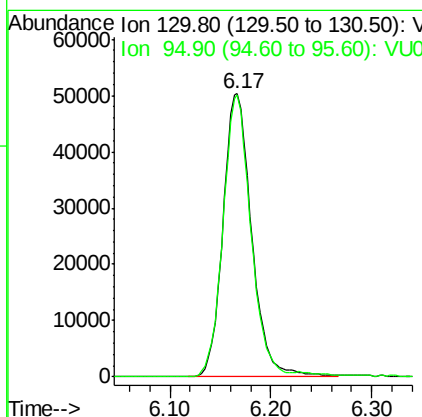
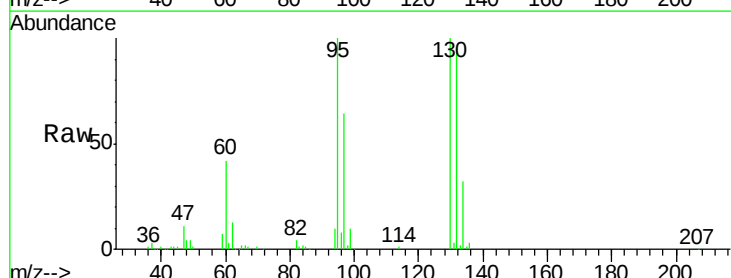
RT: 6.17 min Scan# 1579

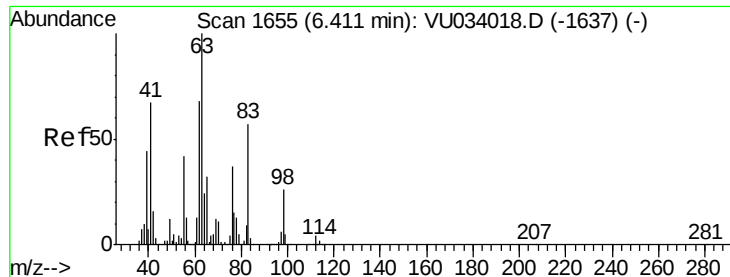
Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	130	Resp:	100111
Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	199.6





#45

1,2-Dichloropropane

Concen: 21.364 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 105183

Ion Ratio Lower Upper

63 100

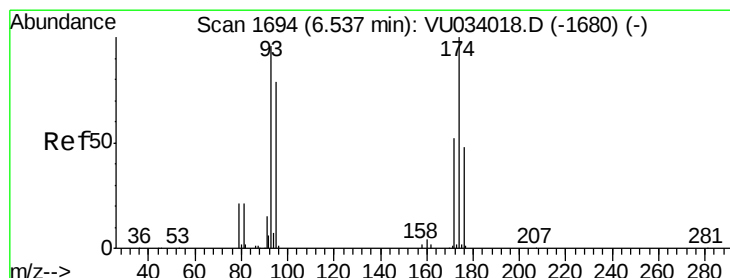
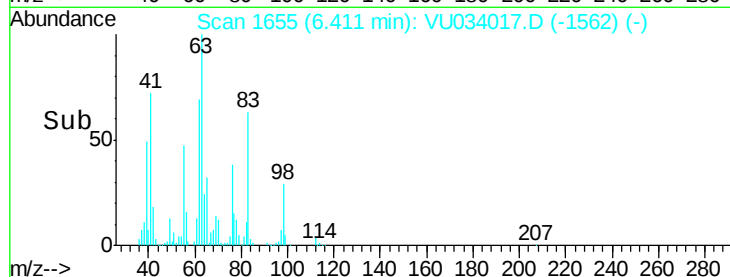
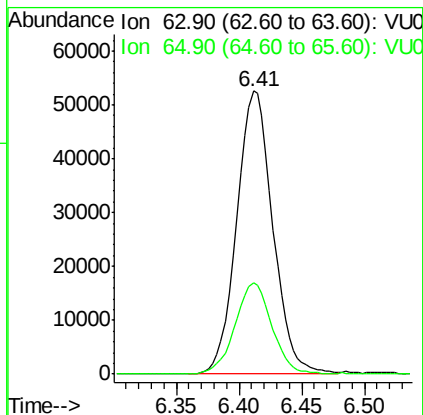
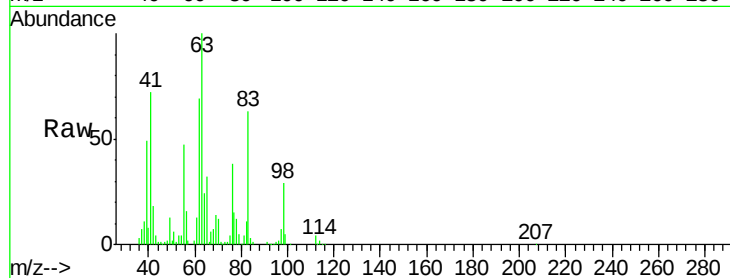
65 32.3 25.4 38.2

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#46

Dibromomethane

Concen: 20.223 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

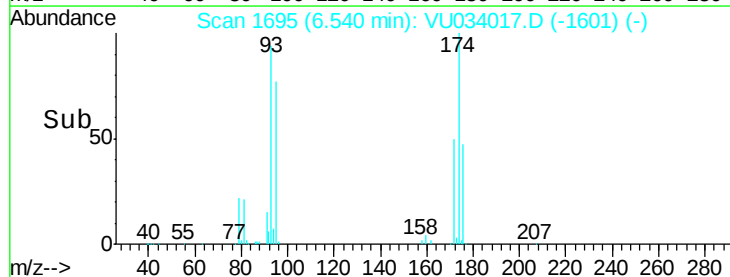
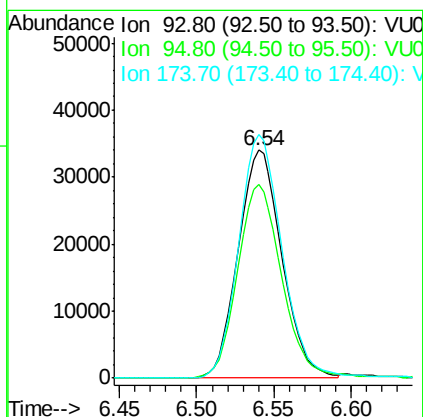
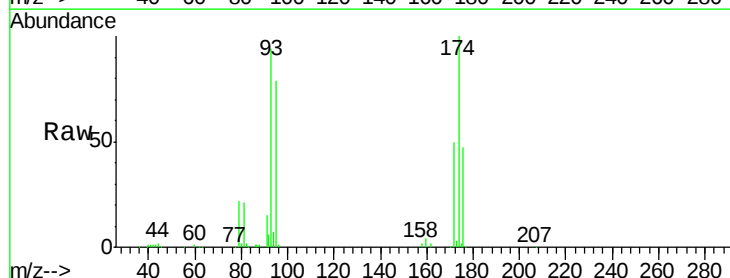
Tgt Ion: 93 Resp: 66899

Ion Ratio Lower Upper

93 100

95 85.4 66.7 100.1

174 105.2 84.9 127.3





#47

Bromodichloromethane

Concen: 20.742 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

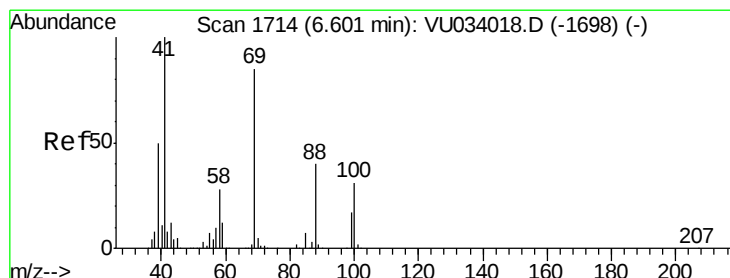
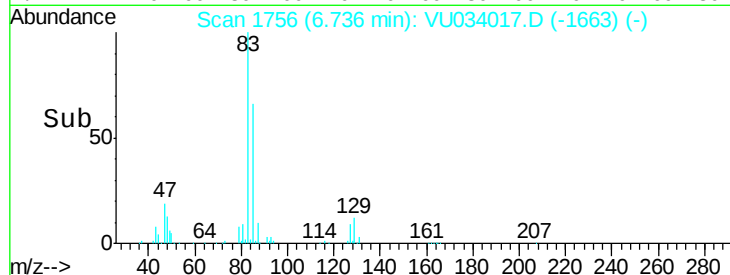
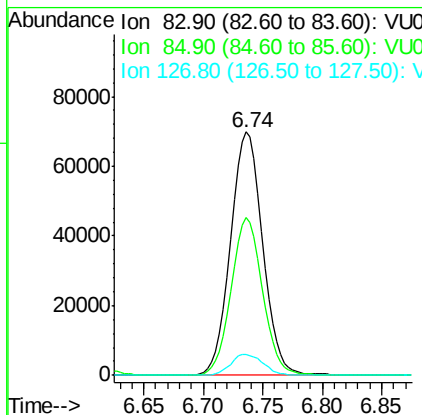
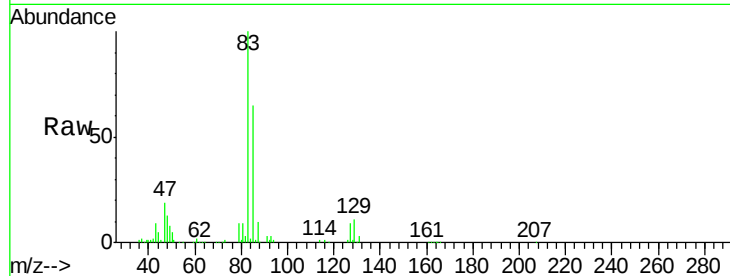
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	131140
Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.2	76.8
127	8.7	7.0	10.6

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#48

Methyl methacrylate

Concen: 21.863 ug/l

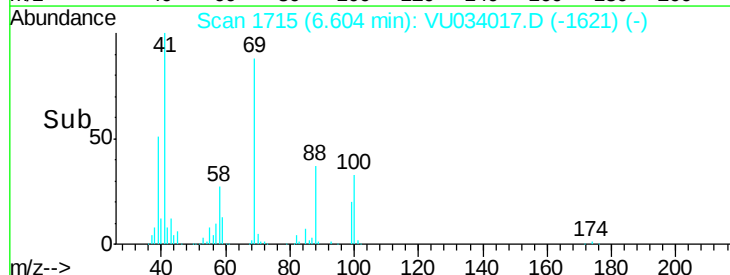
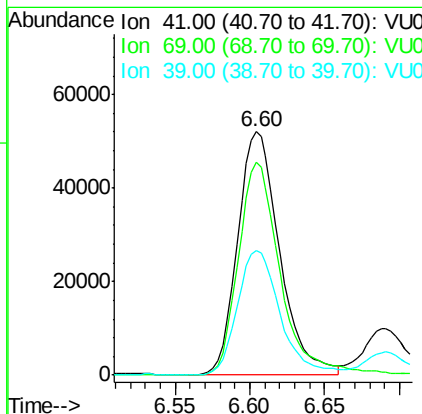
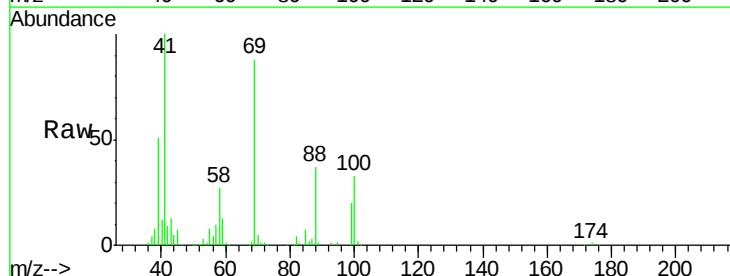
RT: 6.60 min Scan# 1715

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	41	Resp:	100971
Ion	Ratio	Lower	Upper
41	100		
69	88.2	69.5	104.3
39	53.0	40.3	60.5





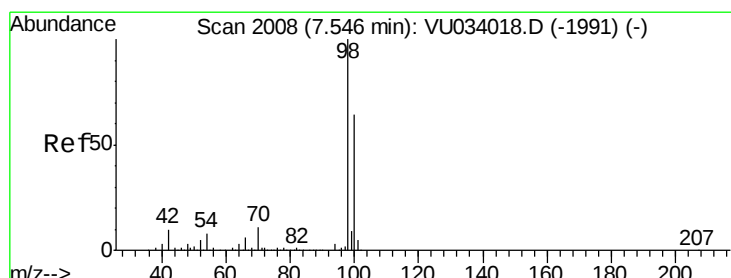
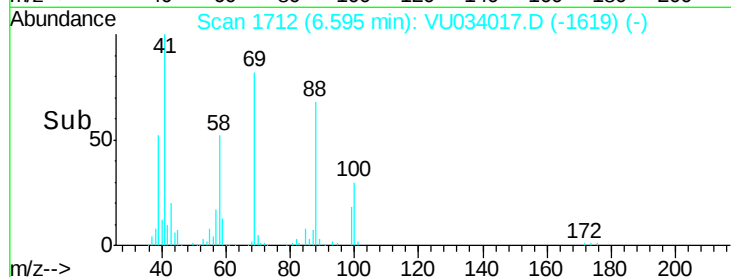
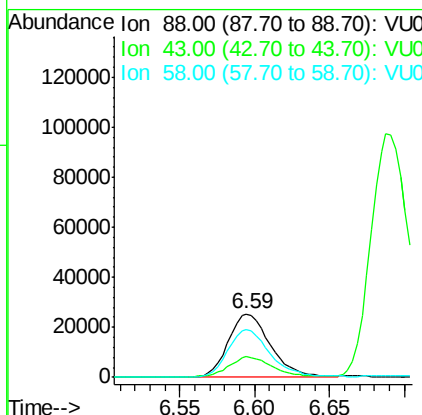
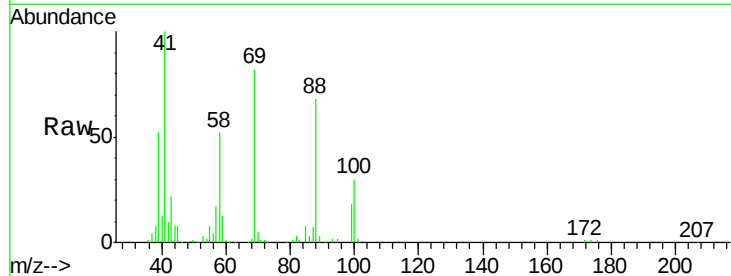
#49
1,4-Dioxane
Concen: 408.390 ug/l
RT: 6.59 min Scan# 1712
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.4	24.8	37.2
58	76.2	59.3	88.9

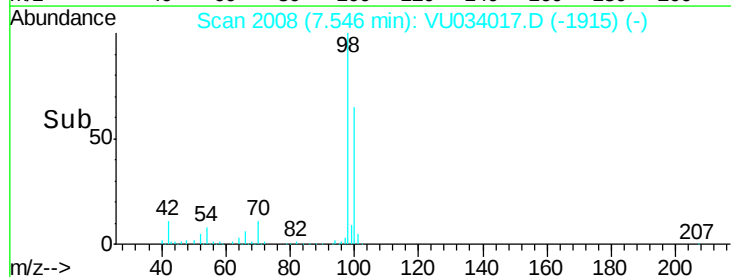
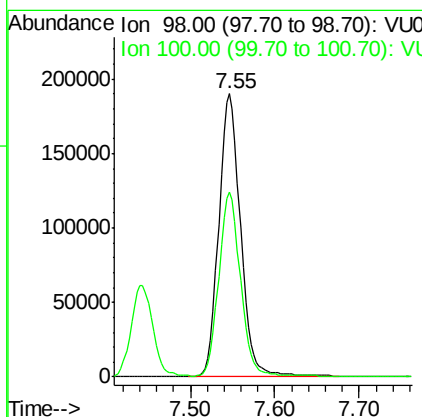
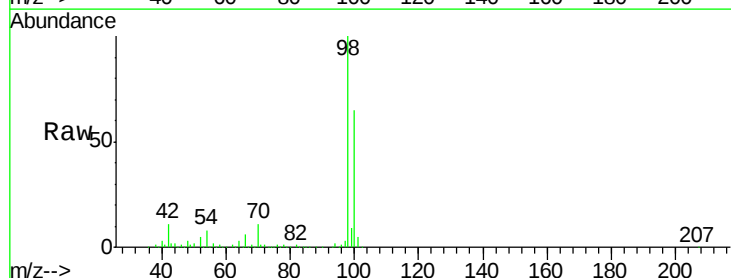
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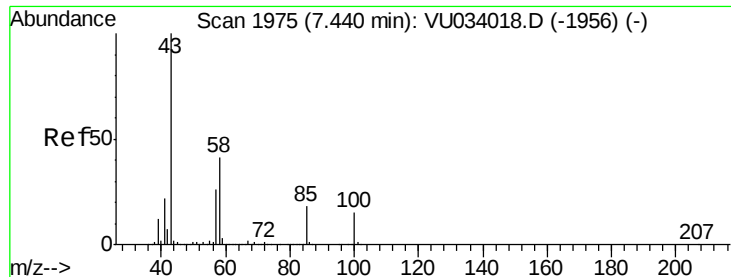
MMDadoda
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#50
Toluene-d8
Concen: 20.623 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	50.3	75.5





#51

4-Methyl-2-Pentanone

Concen: 113.845 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 758039

Ion Ratio Lower Upper

43 100

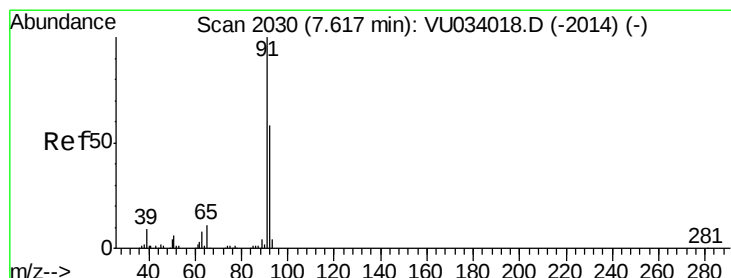
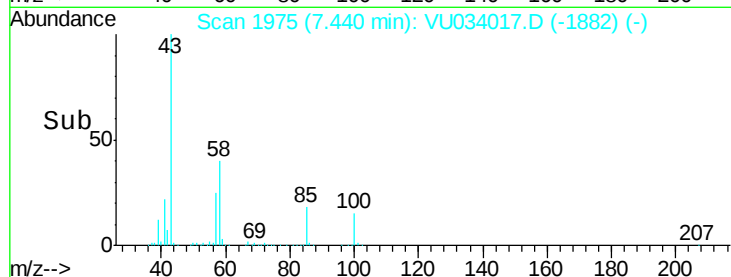
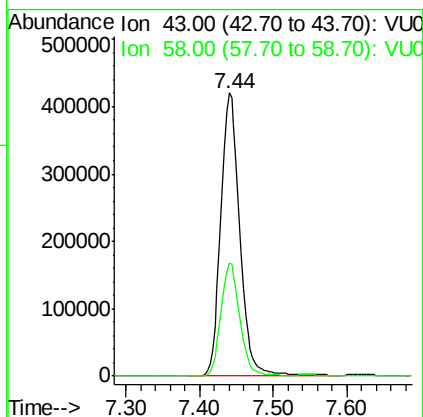
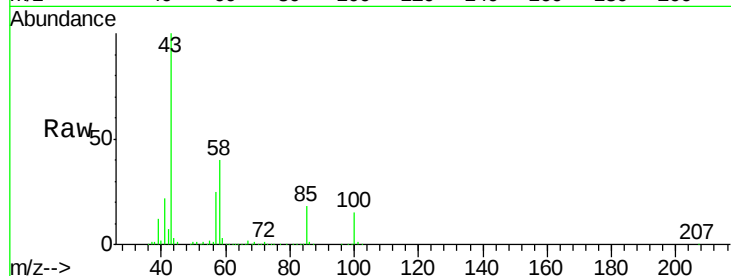
58 39.4 32.2 48.4

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#52

Toluene

Concen: 20.223 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU034017.D

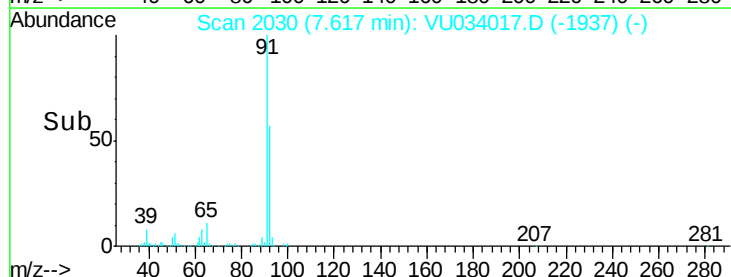
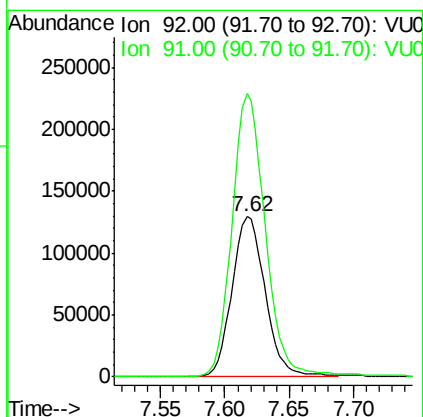
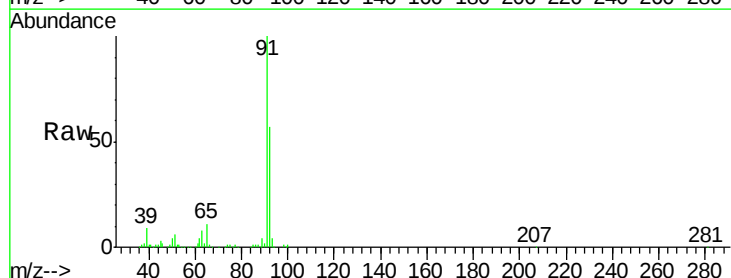
Acq: 28 Aug 2019 12:26

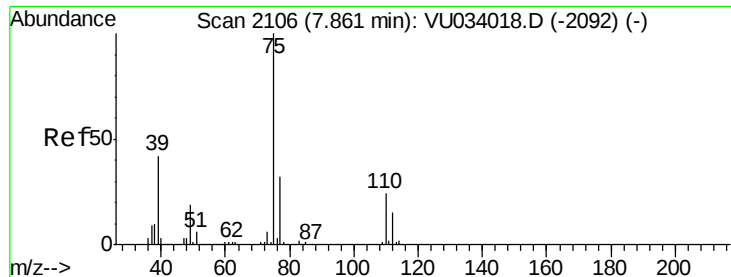
Tgt Ion: 92 Resp: 232517

Ion Ratio Lower Upper

92 100

91 178.1 138.3 207.5





#53

t-1,3-Dichloropropene

Concen: 20.485 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 144295

Ion Ratio Lower Upper

75 100

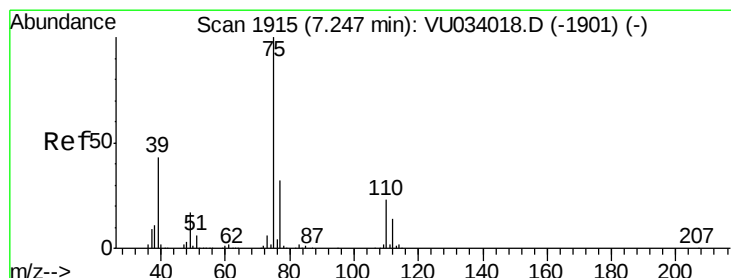
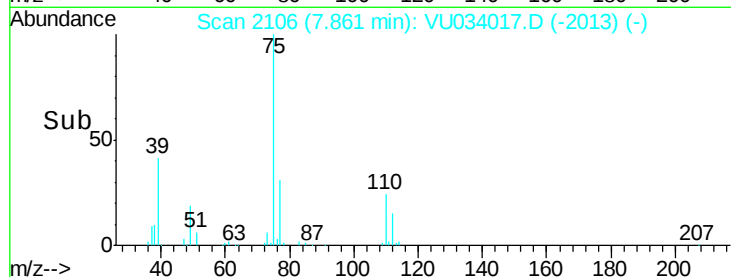
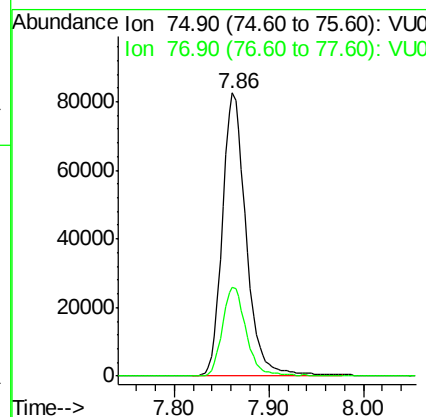
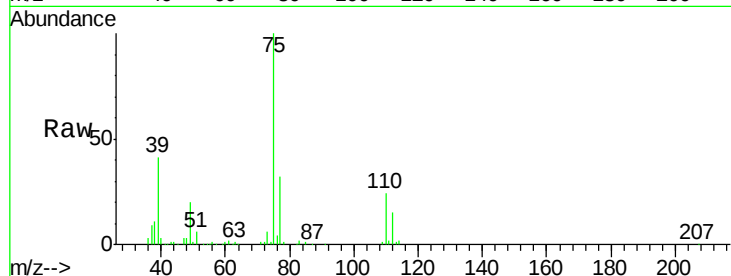
77 31.5 25.4 38.0

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#54

cis-1,3-Dichloropropene

Concen: 20.915 ug/l

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

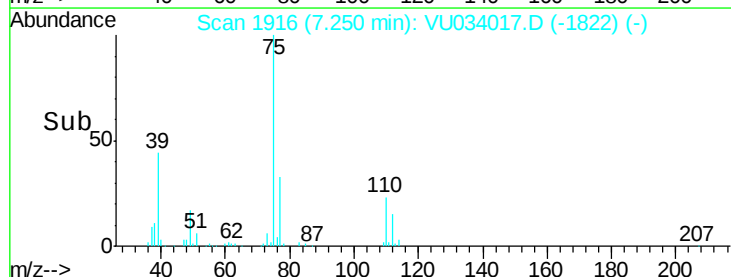
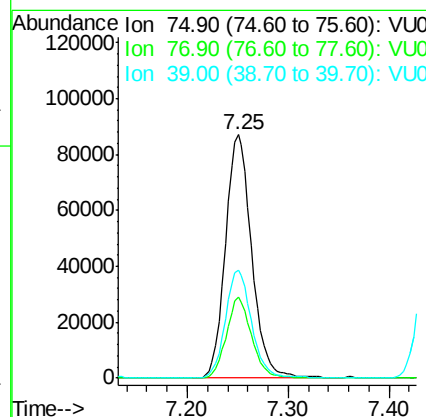
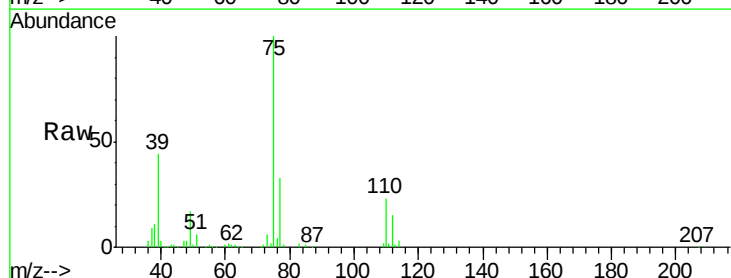
Tgt Ion: 75 Resp: 158575

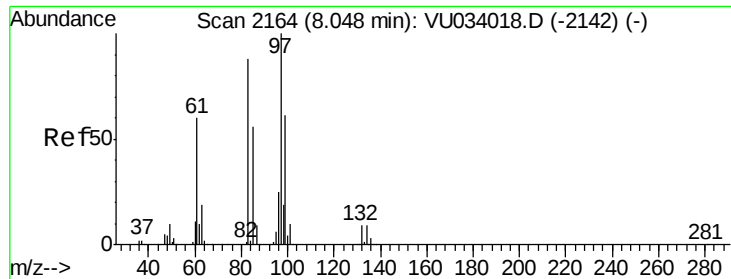
Ion Ratio Lower Upper

75 100

77 33.2 25.2 37.8

39 44.1 34.6 51.8





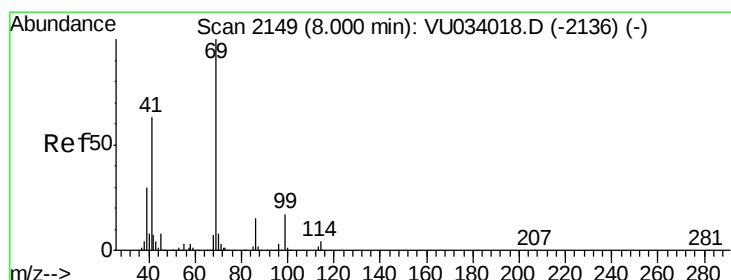
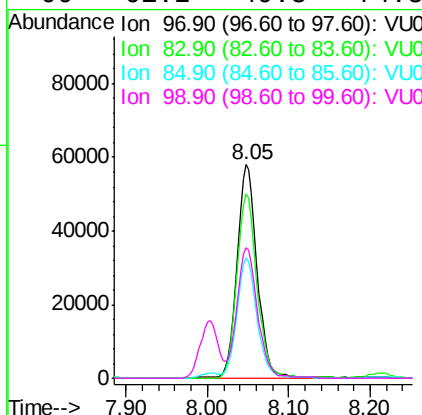
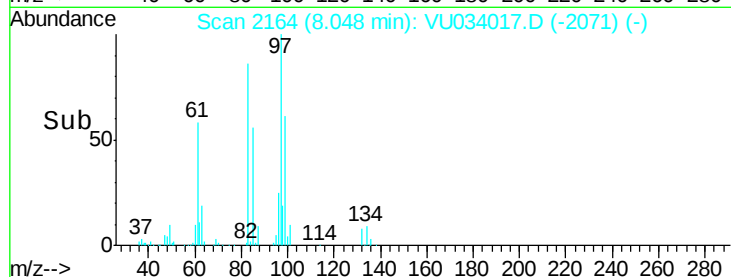
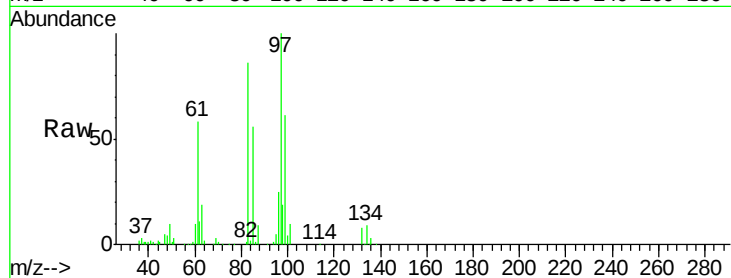
#55
 1,1,2-Trichloroethane
 Concen: 20.524 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	100198
Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.1	105.1
85	56.5	45.0	67.4
99	61.2	49.8	74.8

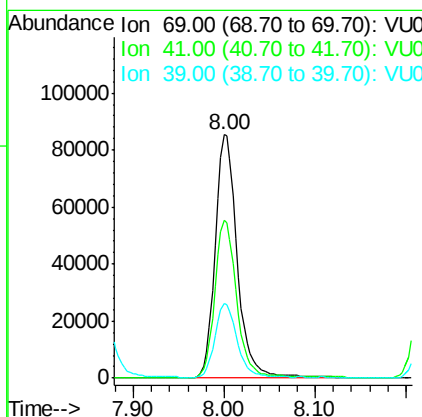
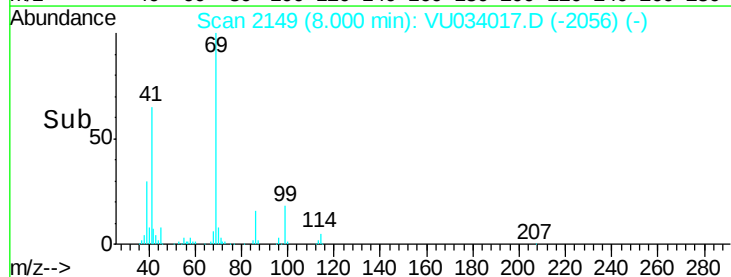
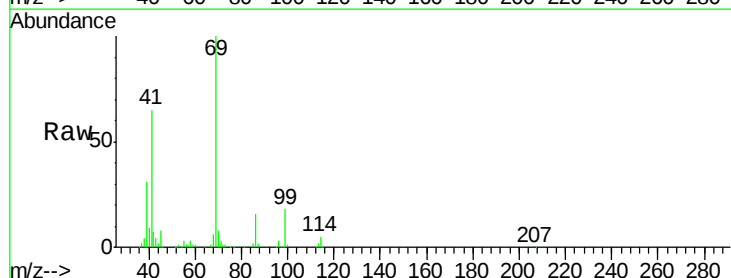
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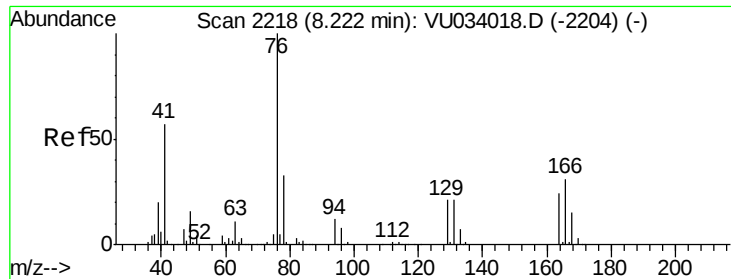
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#56
 Ethyl methacrylate
 Concen: 20.745 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. -0.00 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Tgt Ion:	69	Resp:	144306
Ion	Ratio	Lower	Upper
69	100		
41	63.9	50.7	76.1
39	30.2	24.2	36.2





#57

1,3-Dichloropropane

Concen: 21.530 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 170955

Ion Ratio Lower Upper

76 100

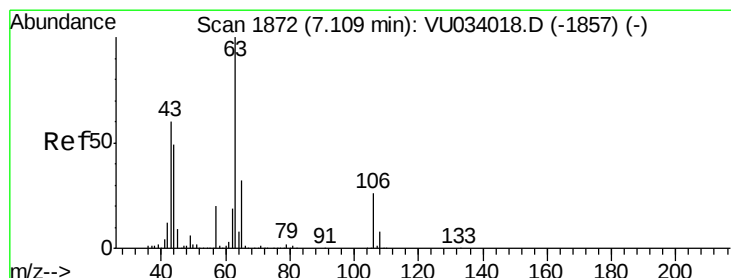
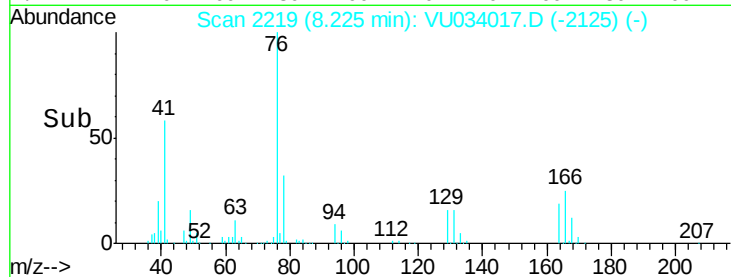
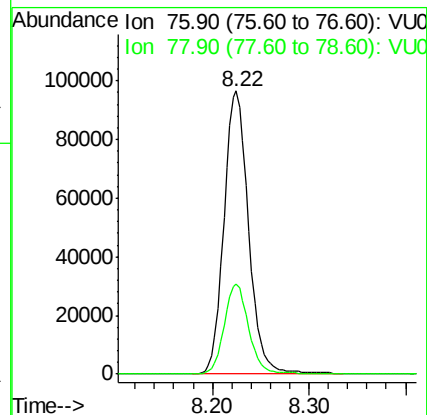
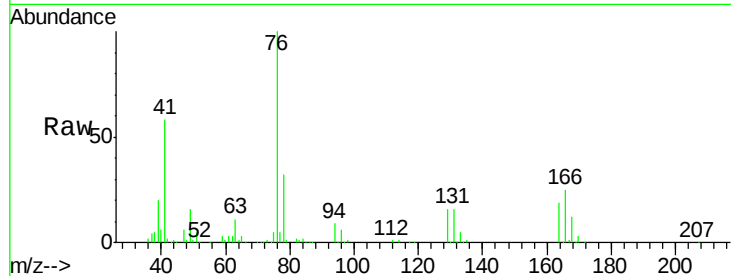
78 31.6 26.2 39.4

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#58

2-Chloroethyl Vinyl ether

Concen: 108.744 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. -0.00 min

Lab File: VU034017.D

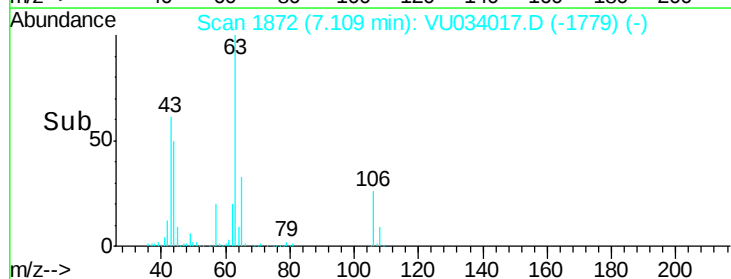
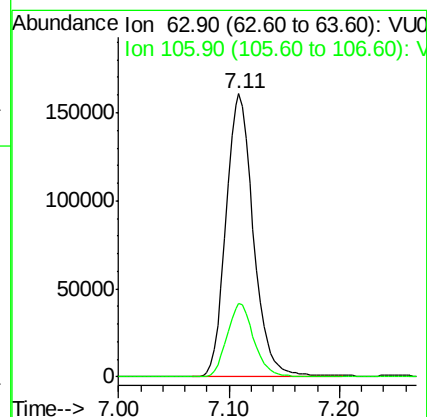
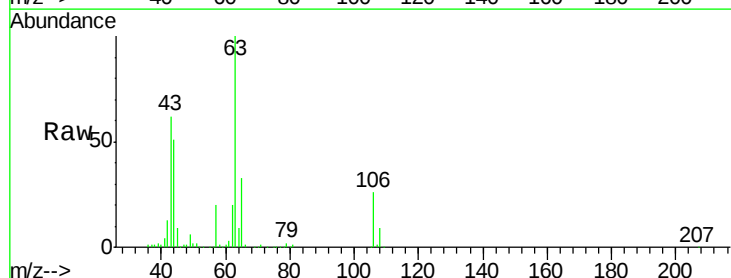
Acq: 28 Aug 2019 12:26

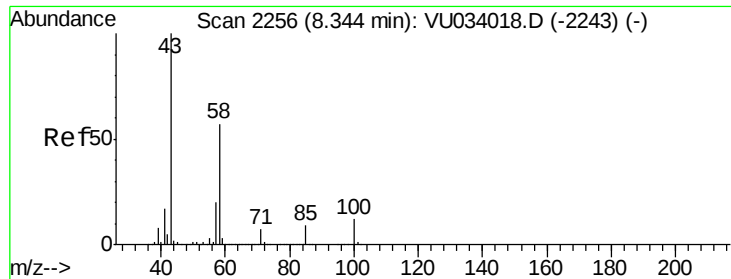
Tgt Ion: 63 Resp: 278250

Ion Ratio Lower Upper

63 100

106 25.5 20.7 31.1





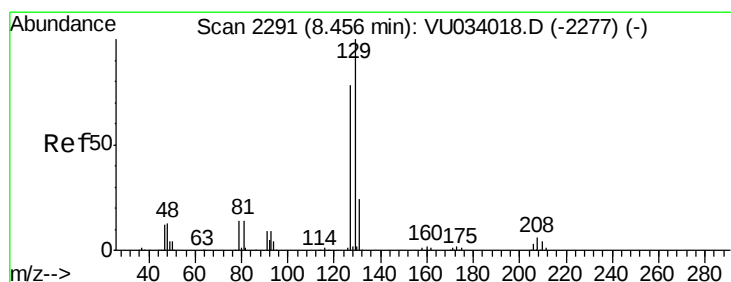
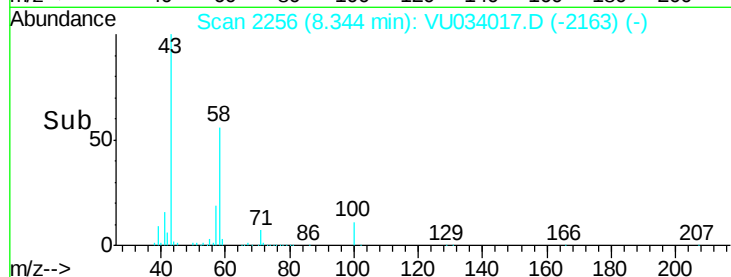
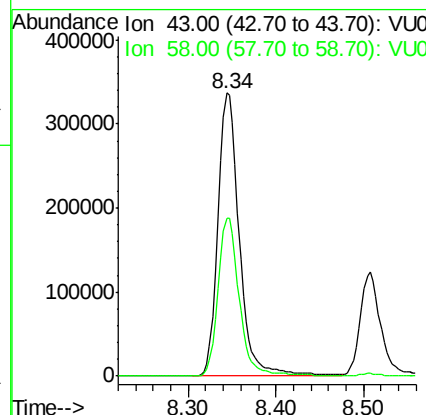
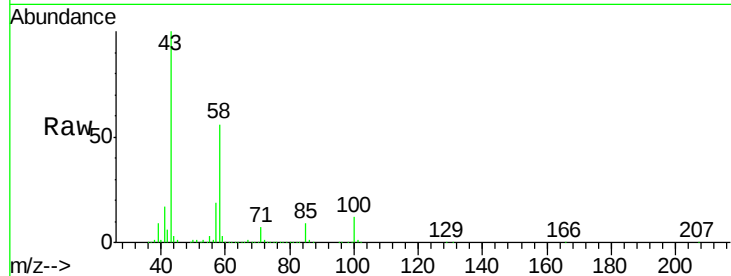
#59
2-Hexanone
Concen: 112.032 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.6	28.4	85.3

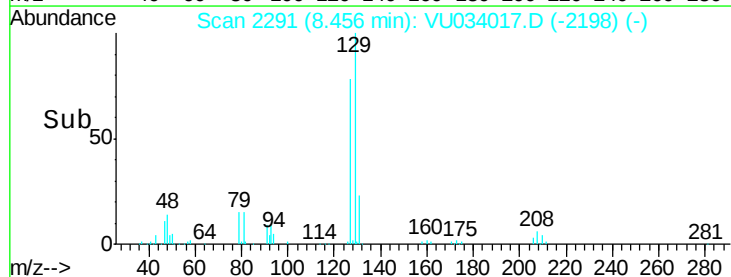
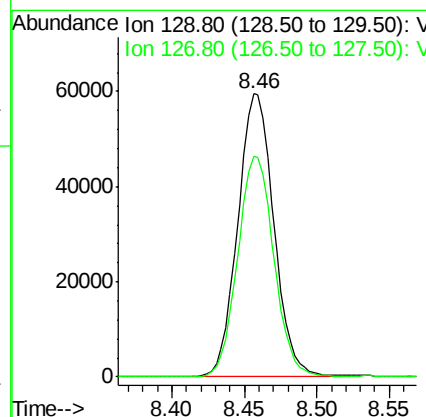
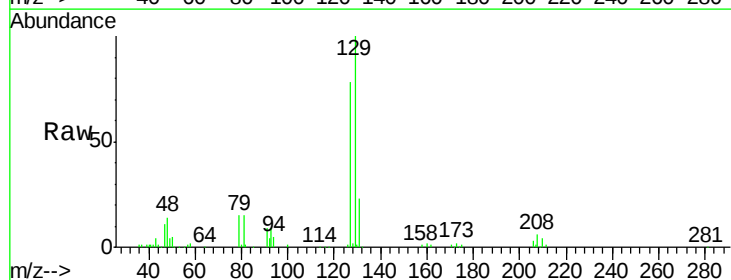
Manual Integrations
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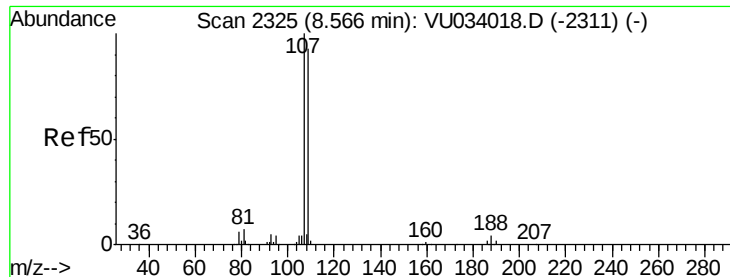
MMDadoda
8/29/2019 8:27:35 AM



#60
Dibromochloromethane
Concen: 18.984 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.0	116.9





#61

1,2-Dibromoethane

Concen: 20.059 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 102757

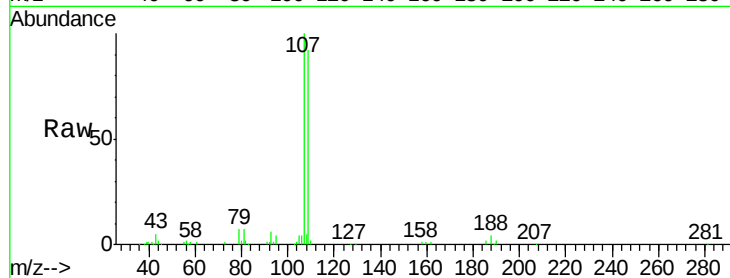
Ion Ratio Lower Upper

107 100

109 94.7 75.2 112.8

Manual Integrations
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MMDadoda
8/29/2019 8:27:35 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.57

60000

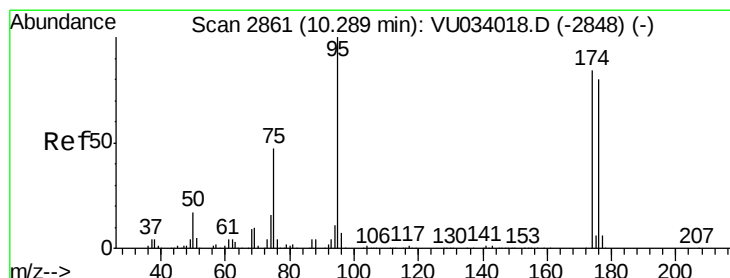
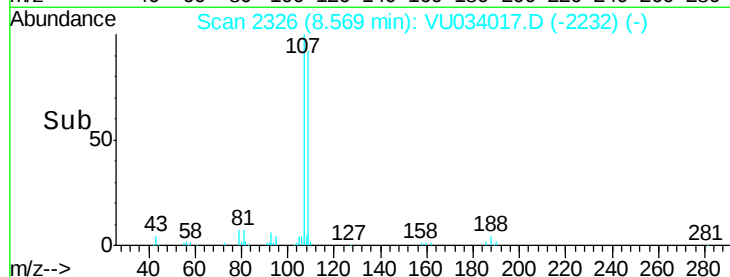
40000

20000

0

8.50 8.55 8.60 8.65

Time-->



#62

4-Bromofluorobenzene

Concen: 19.266 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

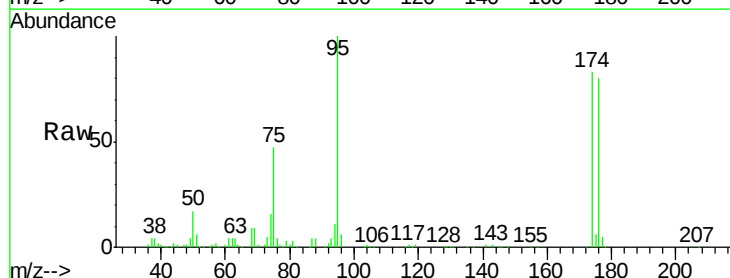
Tgt Ion: 95 Resp: 123748

Ion Ratio Lower Upper

95 100

174 83.3 0.0 168.8

176 79.8 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.29

100000

80000

60000

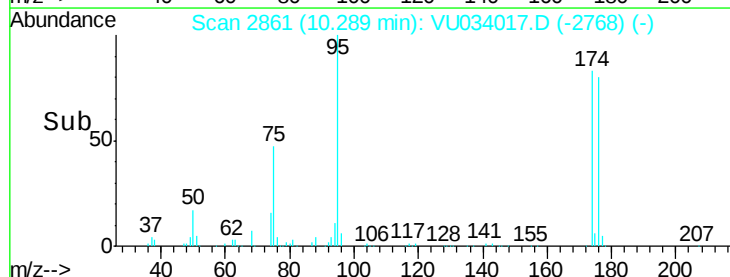
40000

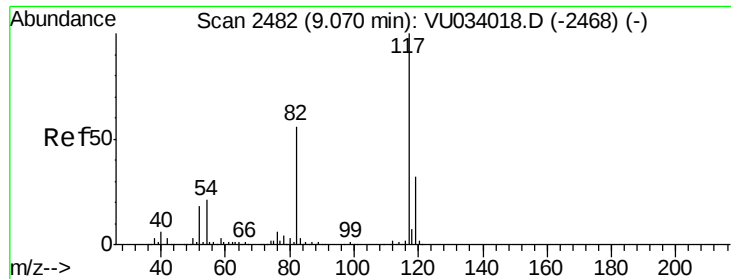
20000

0

10.20 10.30 10.40

Time-->





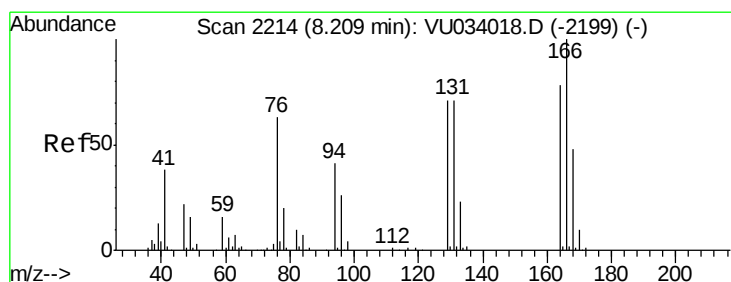
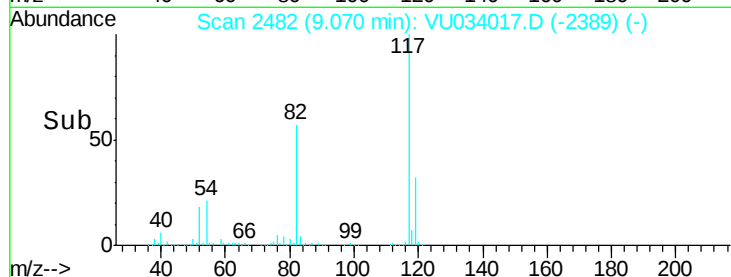
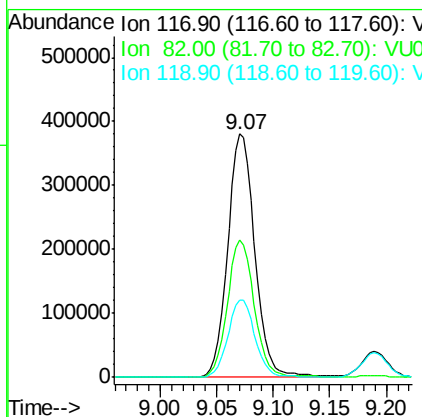
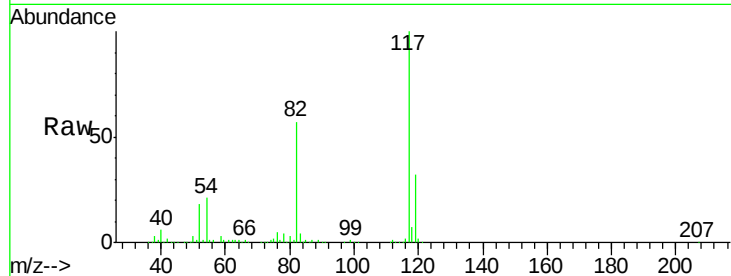
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	635884		
82	56.5	45.1	67.7	
119	32.0	25.4	38.0	

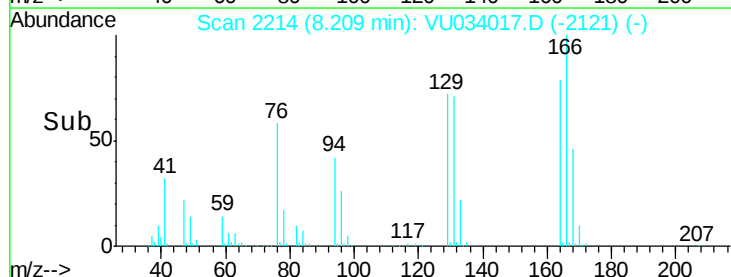
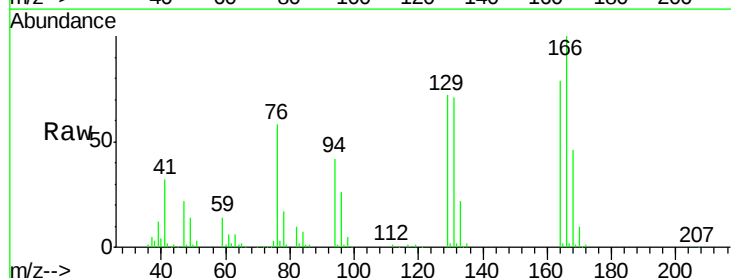
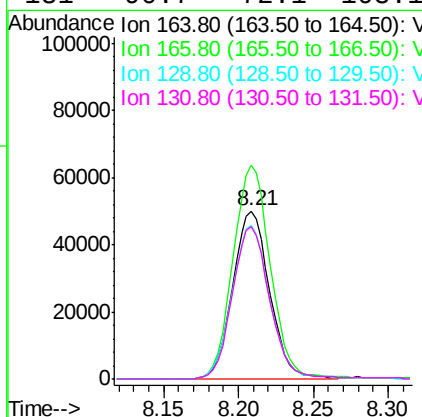
Manual Integrations
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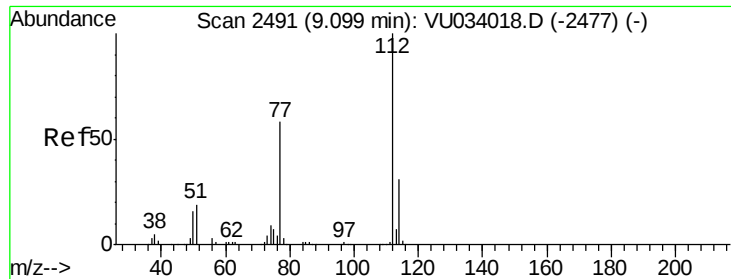
MMDadoda
8/29/2019 8:27:35 AM



#64
Tetrachloroethene
Concen: 17.114 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	86024		
166	127.3	102.2	153.2	
129	91.3	72.4	108.6	
131	90.7	72.1	108.1	





#65

Chlorobenzene

Concen: 19.565 ug/l

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 259958

Ion Ratio Lower Upper

112 100

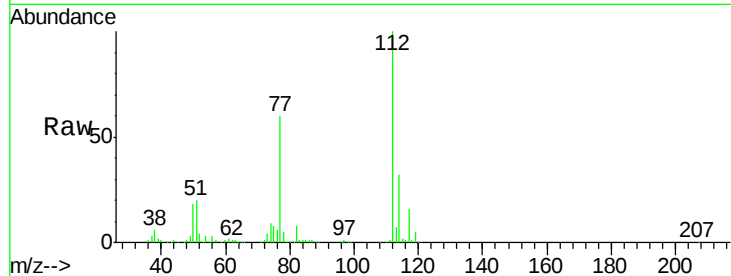
114 32.2 25.0 37.4

Manual Integrations

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

9.10

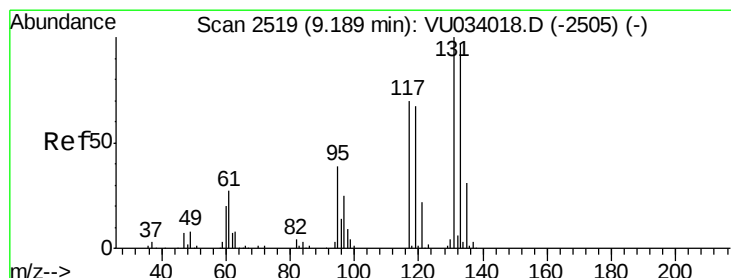
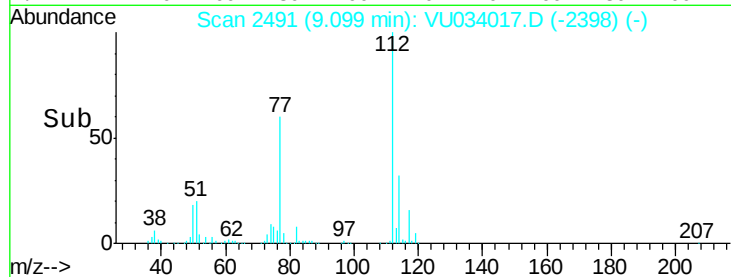
150000

100000

50000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 18.817 ug/l

RT: 9.19 min Scan# 2519

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

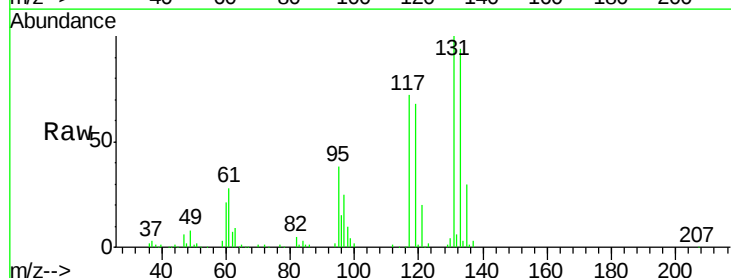
Tgt Ion:131 Resp: 92388

Ion Ratio Lower Upper

131 100

133 97.5 48.4 145.2

119 69.6 33.6 100.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

9.19

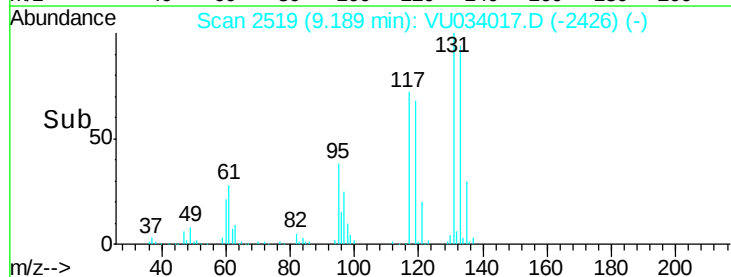
60000

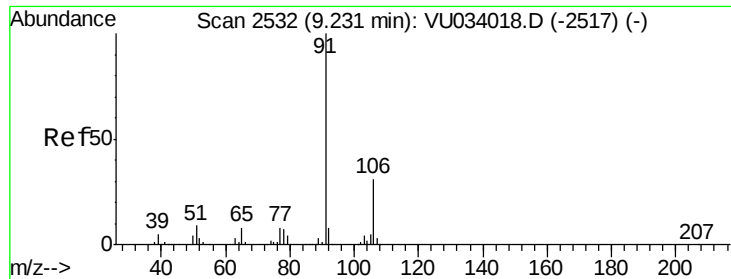
40000

20000

0

Time-->





#67

Ethyl Benzene

Concen: 19.836 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tot Ion: 91 Resp: 441747

Ion Ratio Lower Upper

91 100

106 31.5 24.9 37.3

Instrument :

MSVOA_U

ClientSampleId :

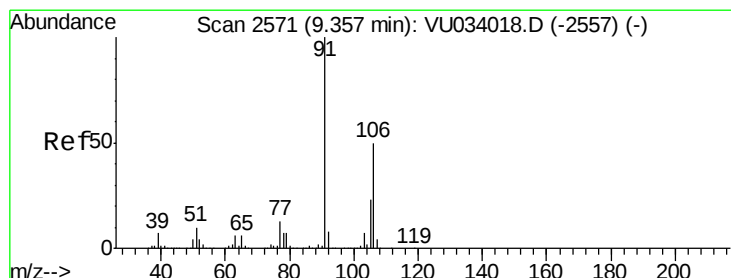
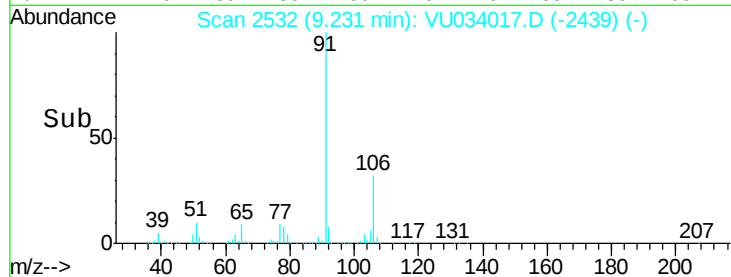
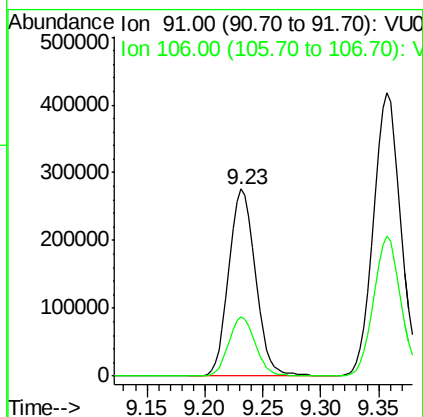
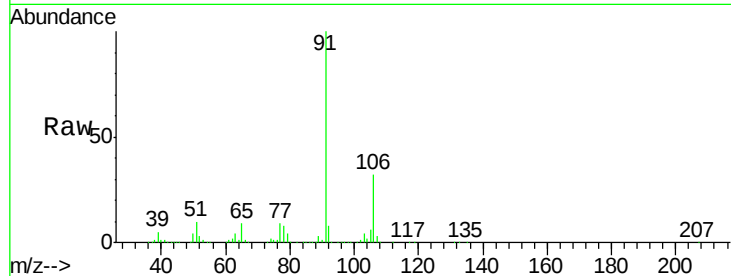
VSTDIC020

Manual Integrations

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8/29/2019 8:27:35 AM



#68

m/p-Xylenes

Concen: 40.199 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU034017.D

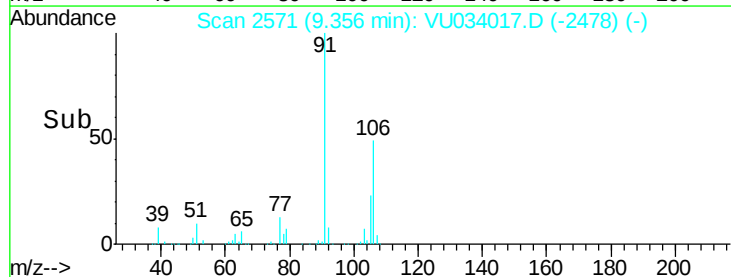
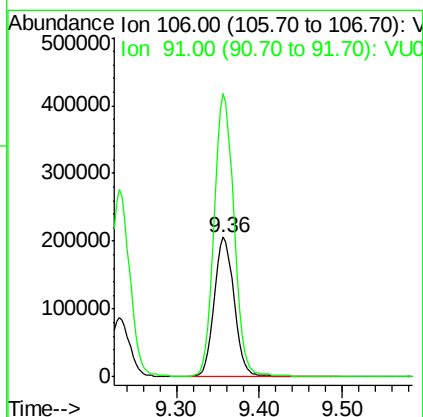
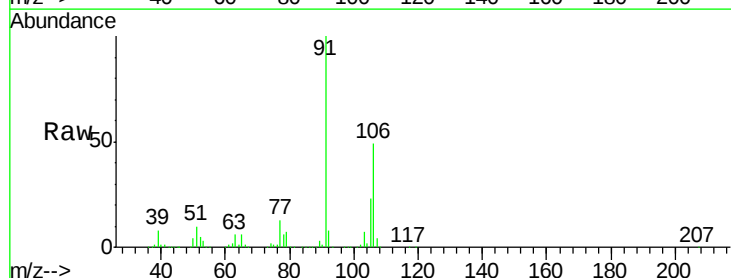
Acq: 28 Aug 2019 12:26

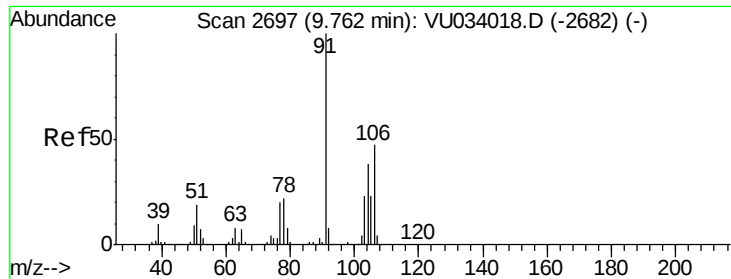
Tgt Ion: 106 Resp: 344229

Ion Ratio Lower Upper

106 100

91 202.3 161.6 242.4





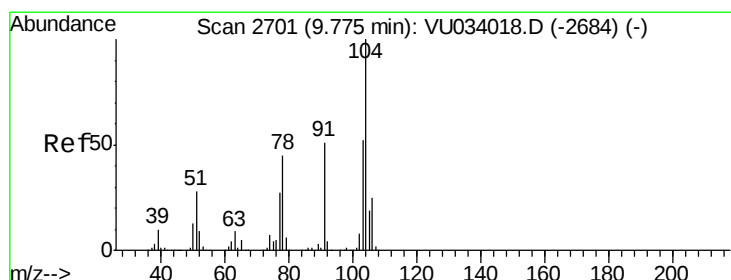
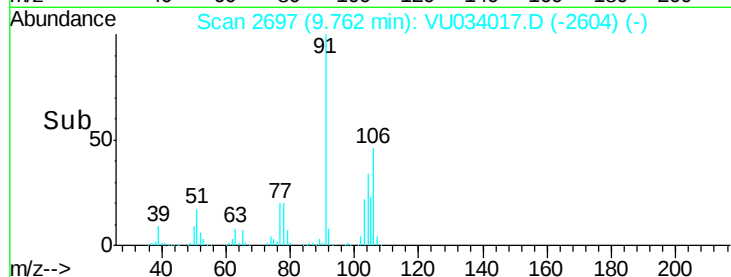
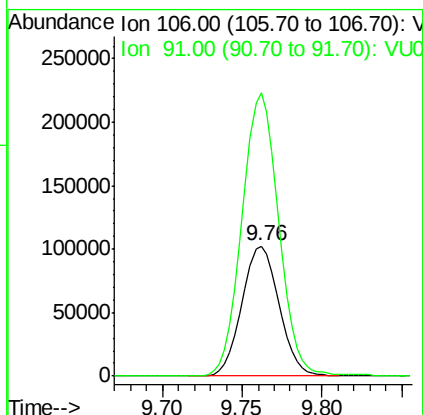
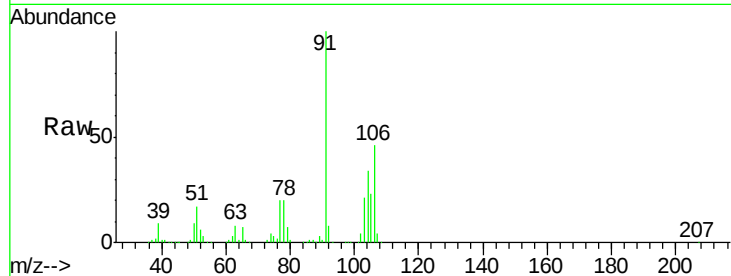
#69
o-Xylene
Concen: 19.789 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	216.0	106.0	318.0

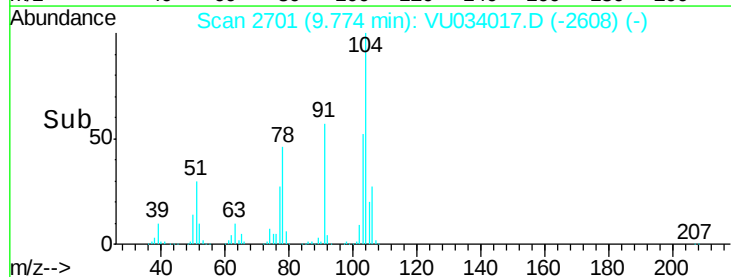
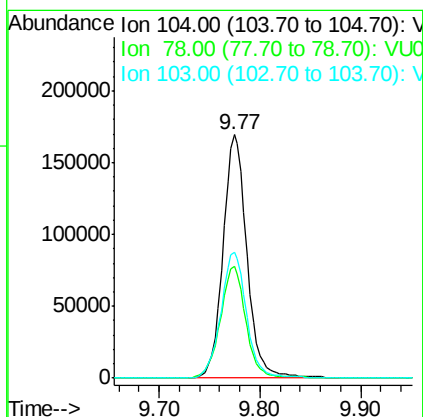
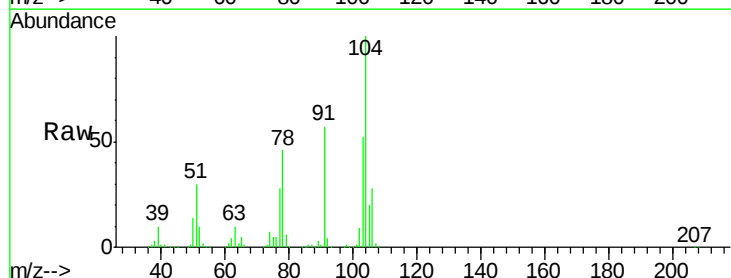
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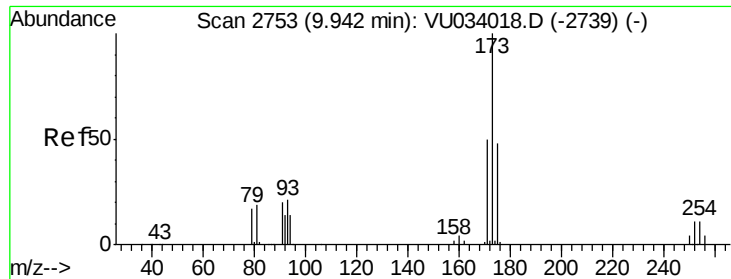
MMDadoda
8/29/2019 8:27:35 AM



#70
Styrene
Concen: 19.978 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.1	39.0	58.4
103	55.9	44.0	66.0





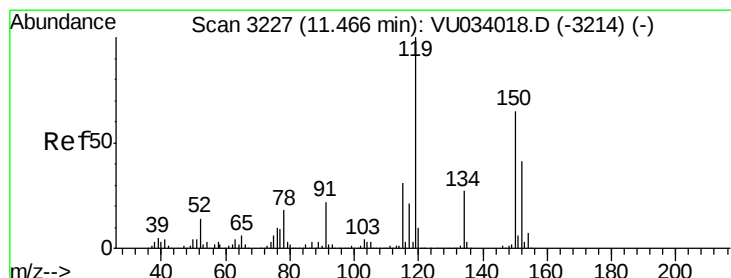
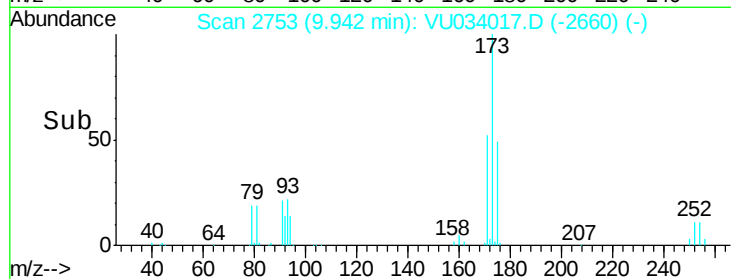
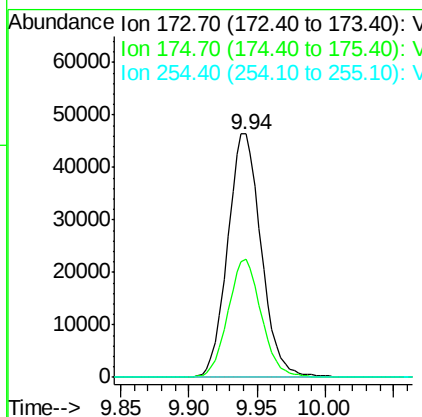
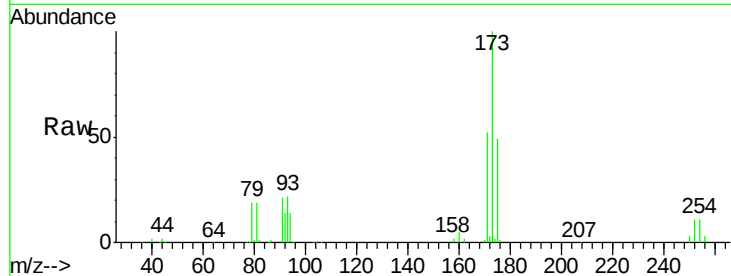
#71
Bromoform
Concen: 18.247 ug/l
RT: 9.94 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.0	0.0	0.0

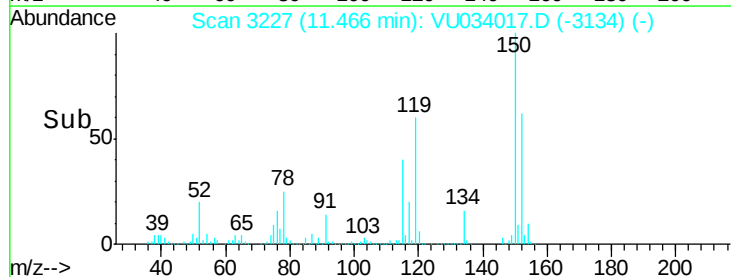
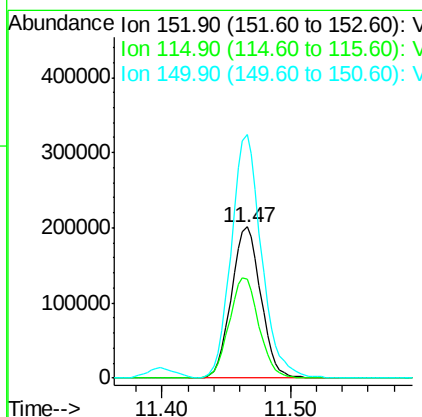
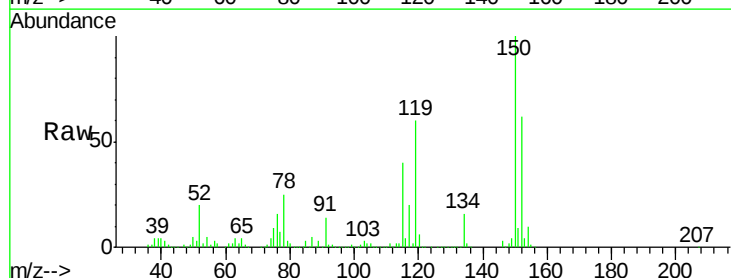
Manual Integrations
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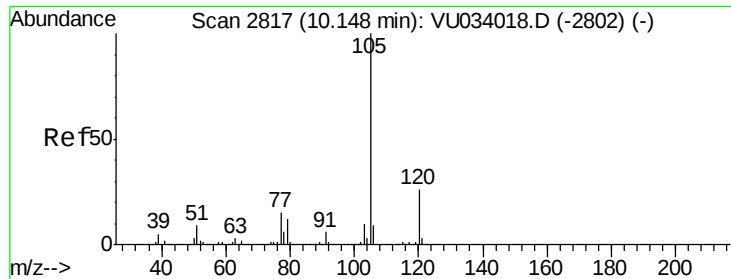
MMDadoda
8/29/2019 8:27:35 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	67.1	41.1	123.3
150	164.5	0.0	348.8





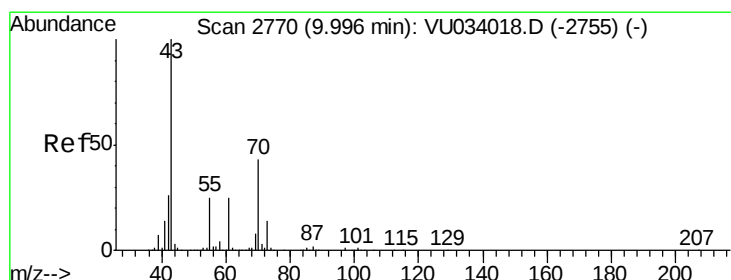
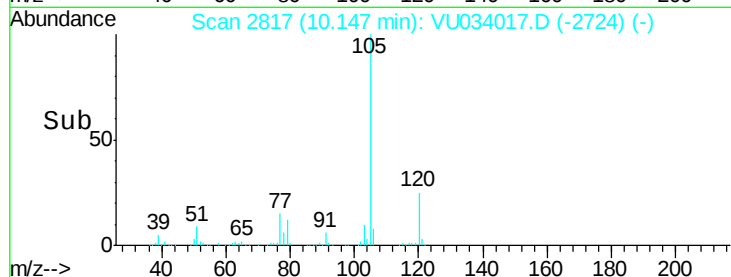
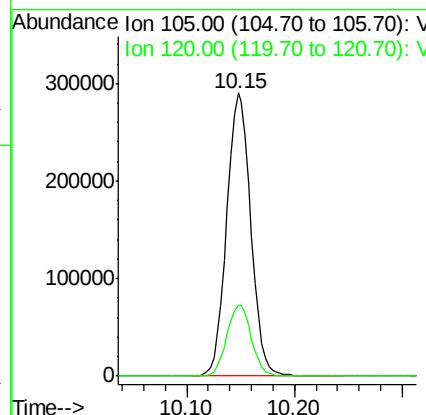
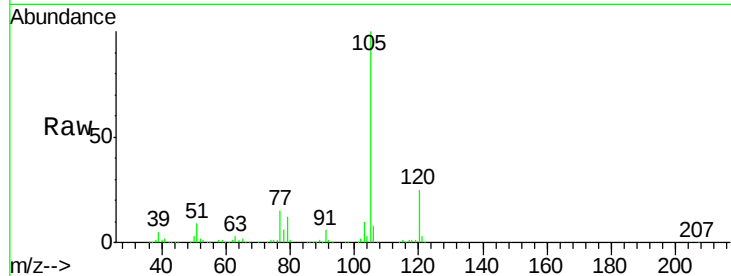
#73
Isopropylbenzene
Concen: 21.302 ug/l
RT: 10.15 min Scan# 2817
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.3	39.8

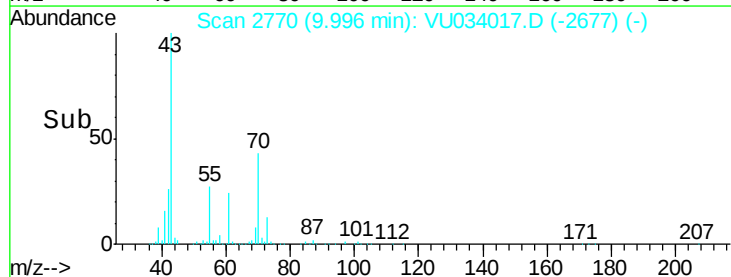
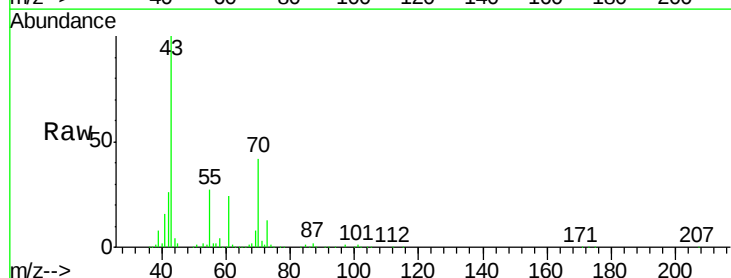
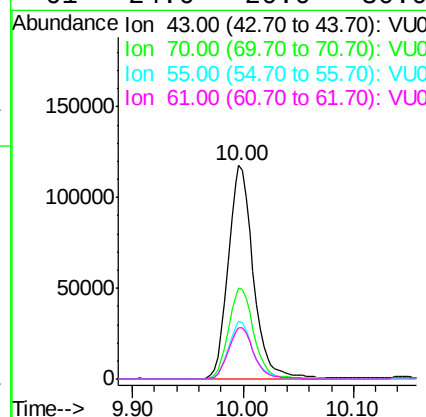
Manual Integrations
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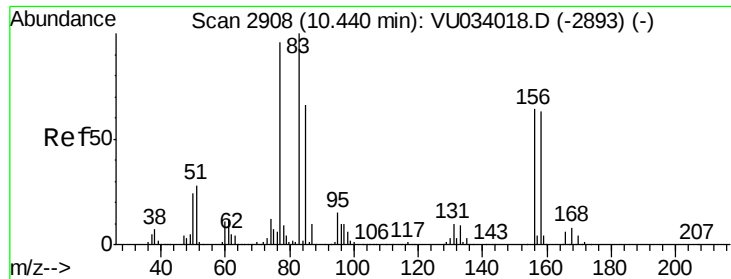
MMDadoda
8/29/2019 8:27:35 AM



#74
N-ethyl acetate
Concen: 22.801 ug/l
RT: 10.00 min Scan# 2770
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.2	35.2	52.8
55	26.7	20.5	30.7
61	24.6	20.0	30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.866 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 167956
Ion Ratio Lower Upper

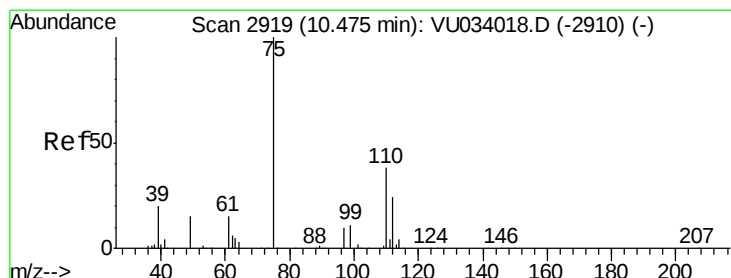
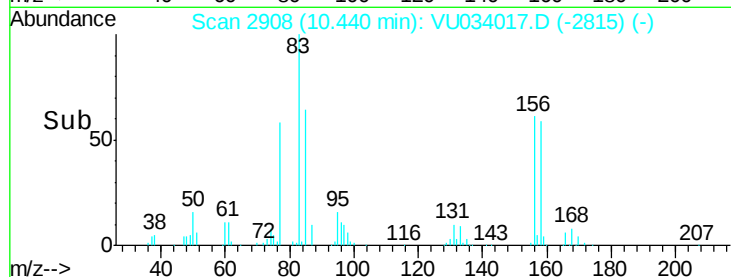
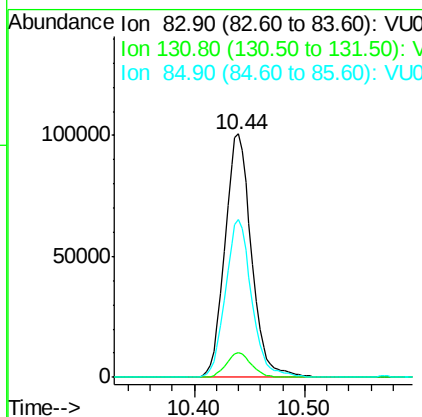
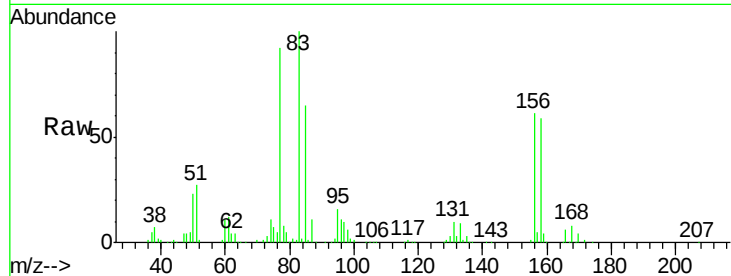
83 100

131 9.7 5.0 14.9

85 64.4 32.2 96.6

Manual Integrations
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MMDadoda
8/29/2019 8:27:35 AM



#76

1,2,3-Trichloropropane

Concen: 22.970 ug/l m

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

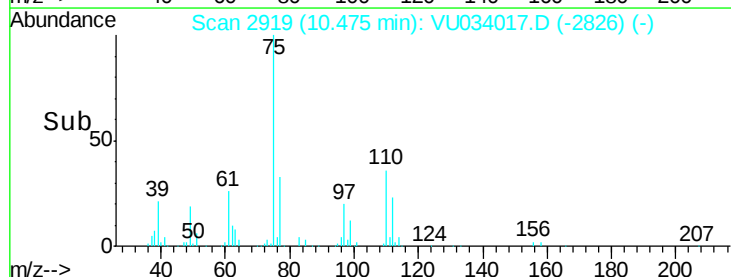
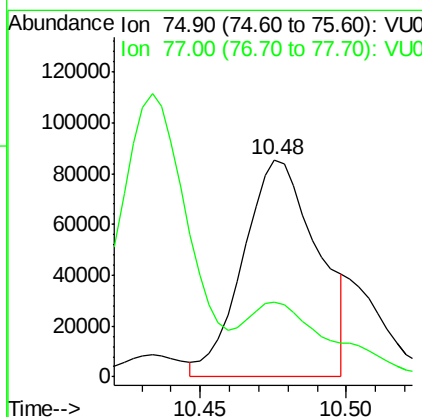
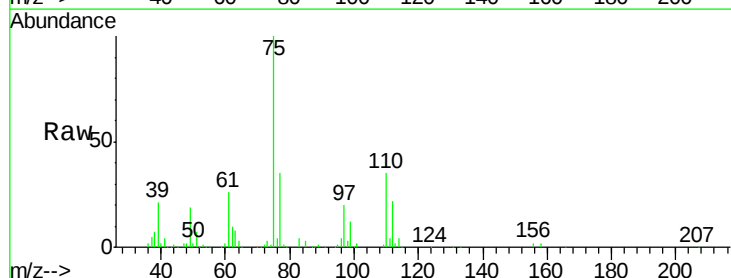
Lab File: VU034017.D

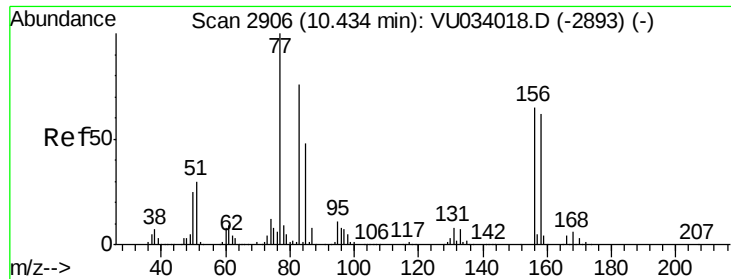
Acq: 28 Aug 2019 12:26

Tgt Ion: 75 Resp: 151215
Ion Ratio Lower Upper

75 100

77 39.1 20.1 60.2





#77

Bromobenzene

Concen: 19.533 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

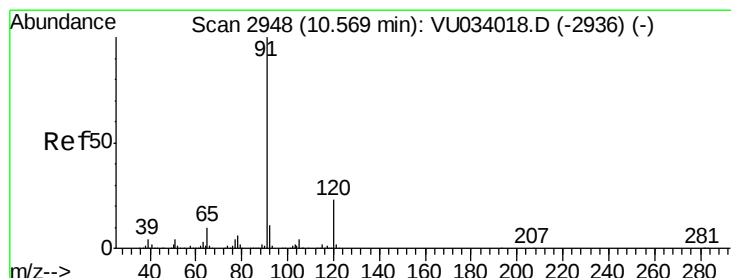
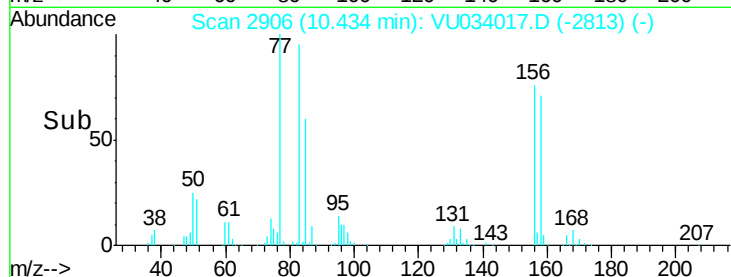
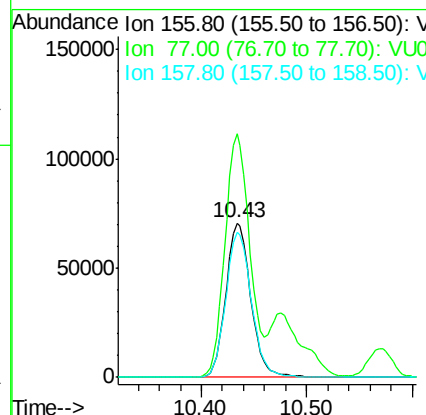
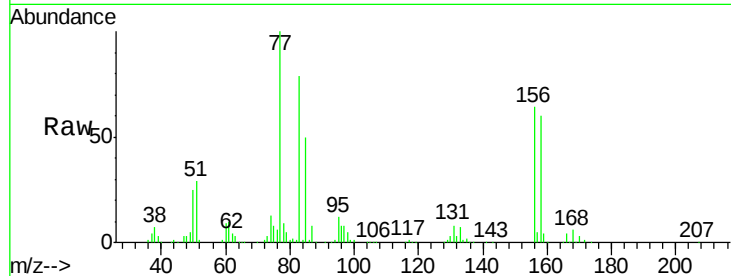
ClientSampled :

VSTDIC020

Tot Ion:	156	Resp:	115563
Ion Ratio	Lower	Upper	
156	100		
77	156.6	76.8	230.5
158	97.1	48.4	145.0

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#78

n-propylbenzene

Concen: 21.329 ug/l

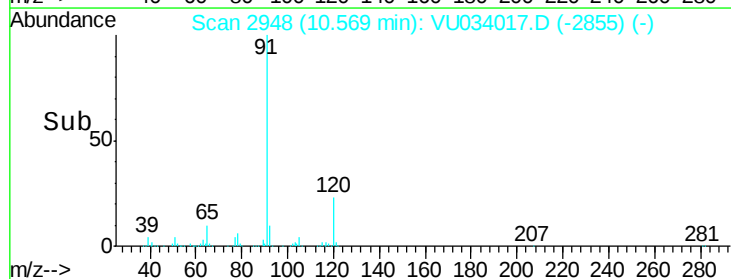
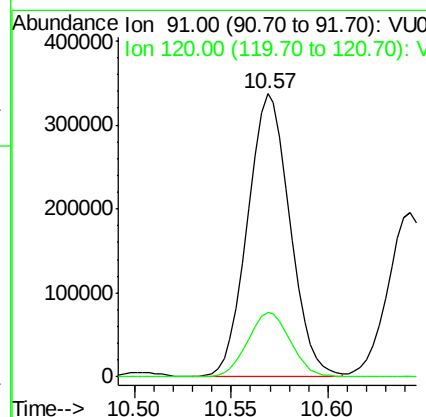
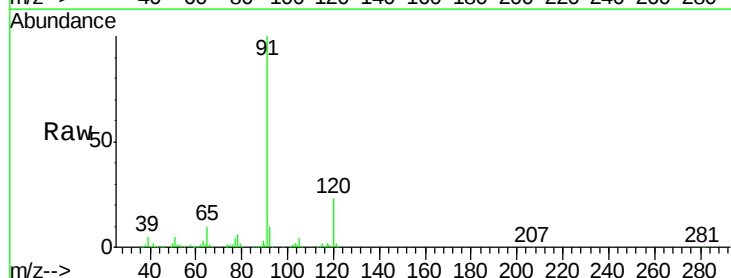
RT: 10.57 min Scan# 2948

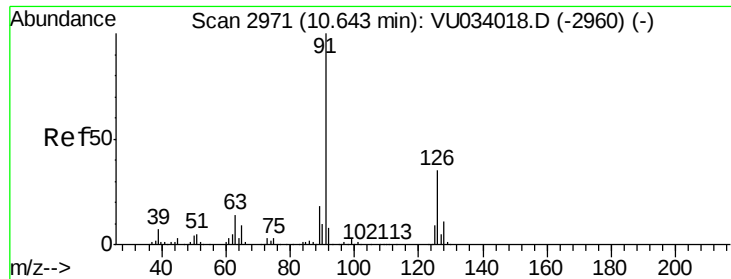
Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	91	Resp:	513178
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.7	35.0





#79

2-Chlorotoluene

Concen: 21.340 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 310097

Ion Ratio Lower Upper

91 100

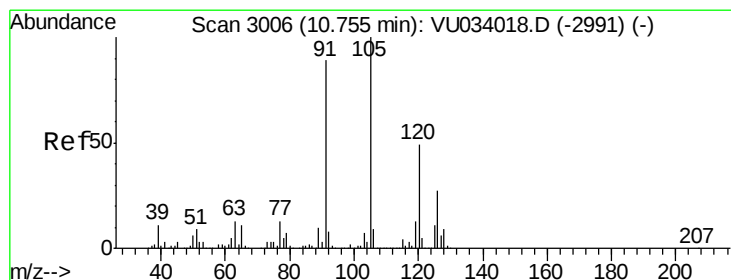
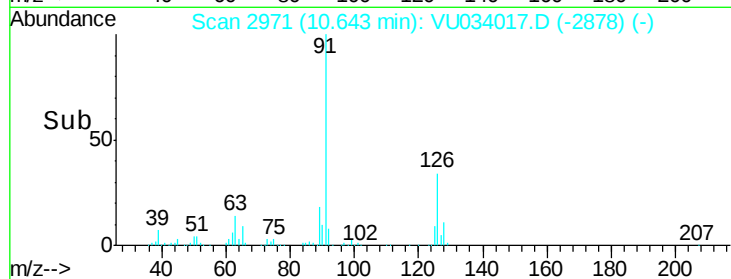
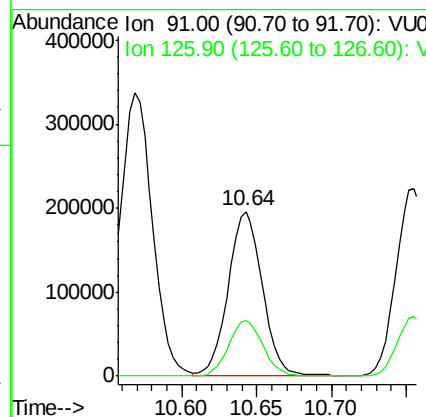
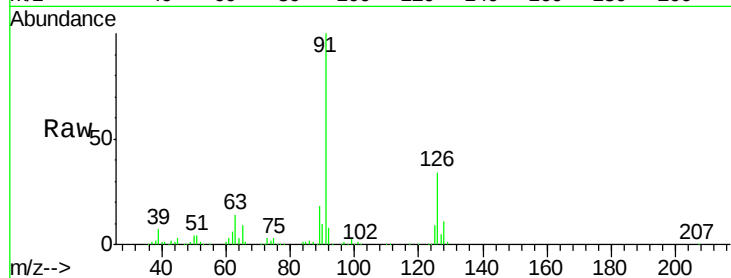
126 34.0 17.1 51.2

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#80

1,3,5-Trimethylbenzene

Concen: 21.216 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU034017.D

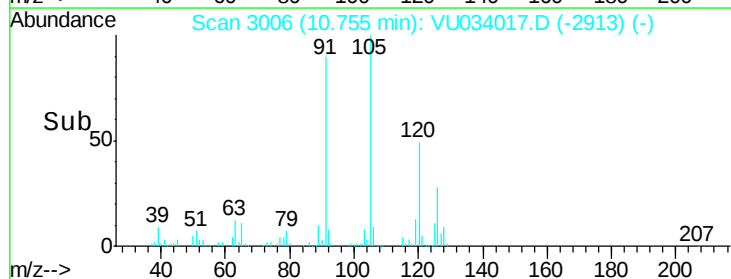
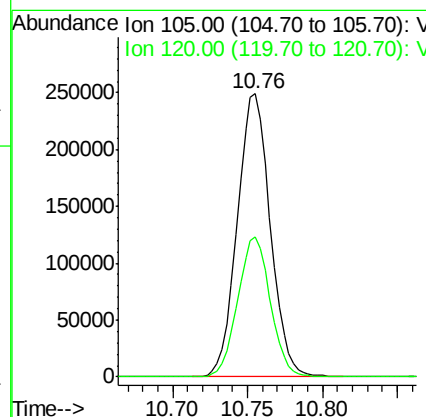
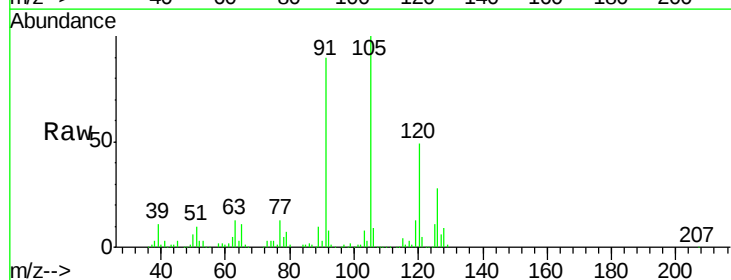
Acq: 28 Aug 2019 12:26

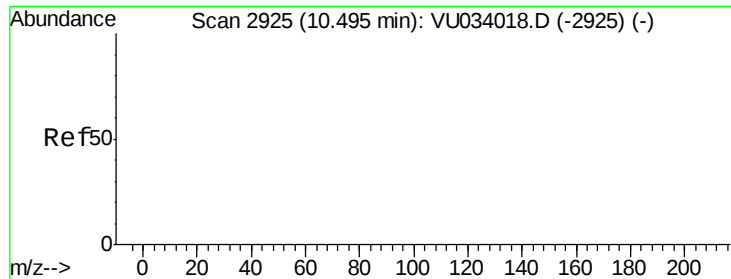
Tgt Ion: 105 Resp: 383538

Ion Ratio Lower Upper

105 100

120 48.9 24.6 73.6





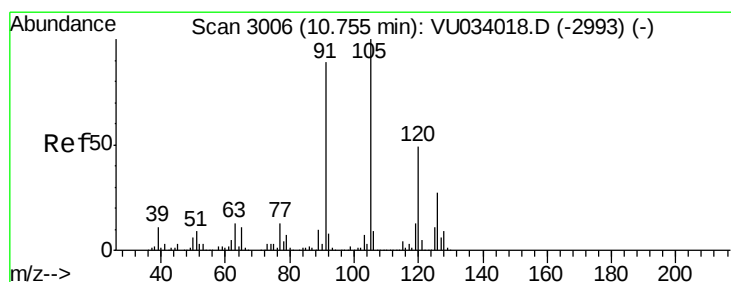
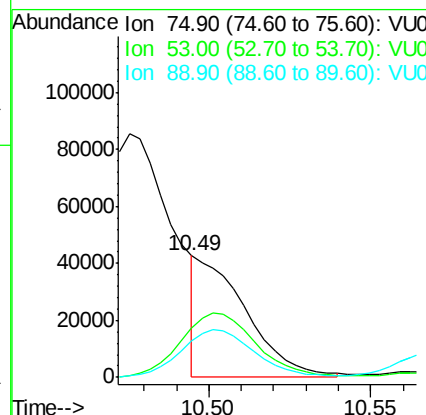
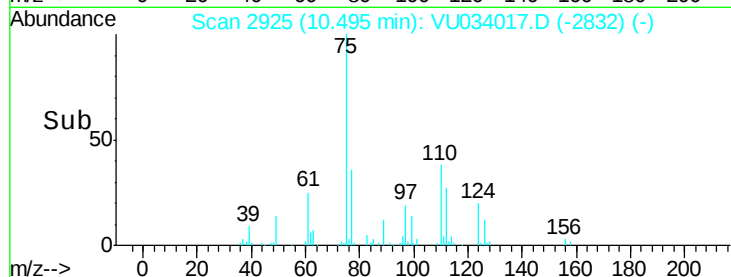
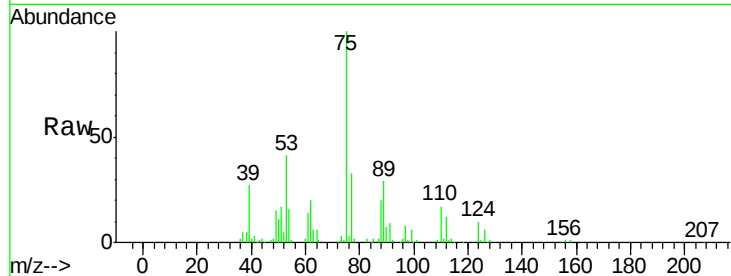
#81
trans-1,4-Dichloro-2-butene
Concen: 20.004 ug/l m
RT: 10.49 min Scan# 2925
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

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

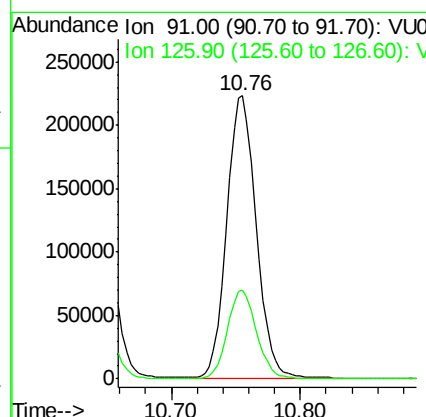
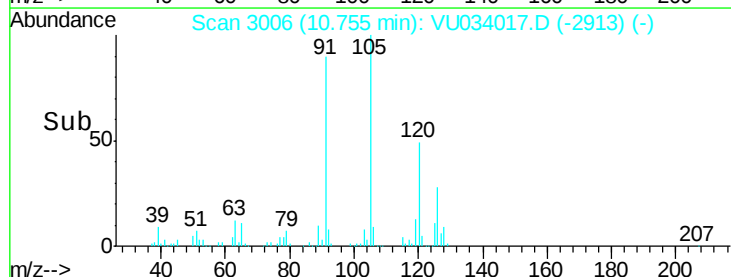
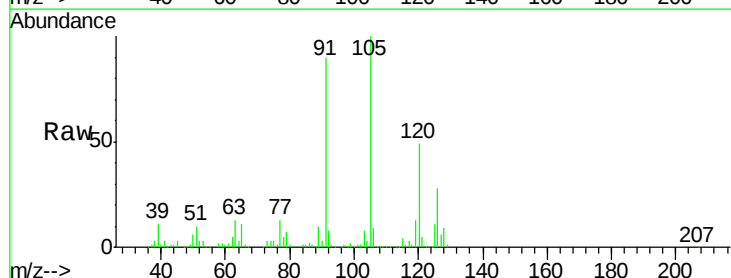
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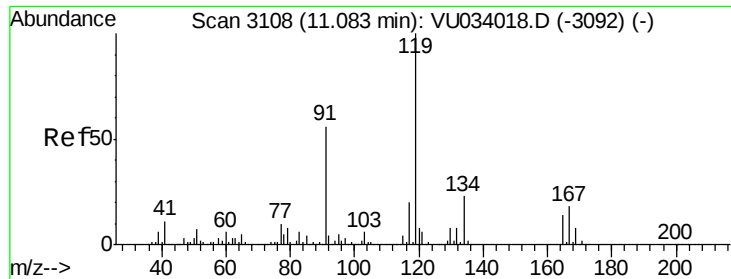
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#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 10.76 min Scan# 3006
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.0	45.1





#83

tert-Butylbenzene

Concen: 20.547 ug/l

RT: 11.08 min Scan# 3108

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

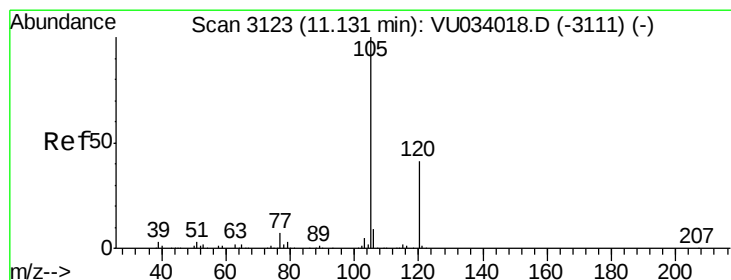
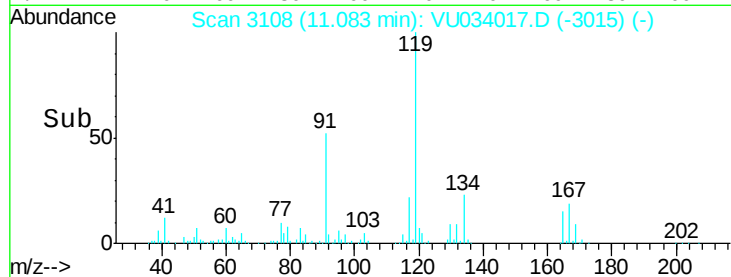
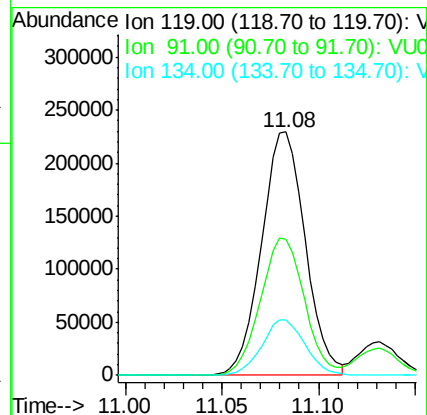
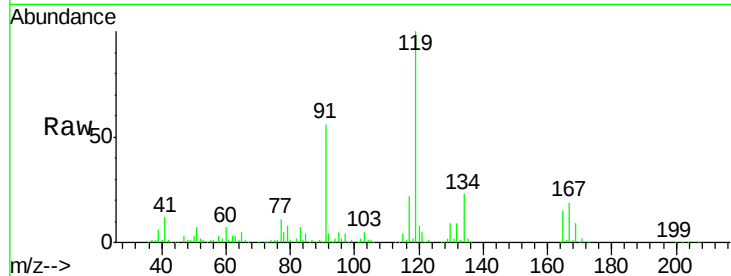
ClientSampleId :

VSTDIC020

Tot Ion:	119	Resp:	361846
Ion Ratio	Lower	Upper	
119	100		
91	56.4	27.9	83.6
134	22.7	11.4	34.2

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#84

1,2,4-Trimethylbenzene

Concen: 21.393 ug/l

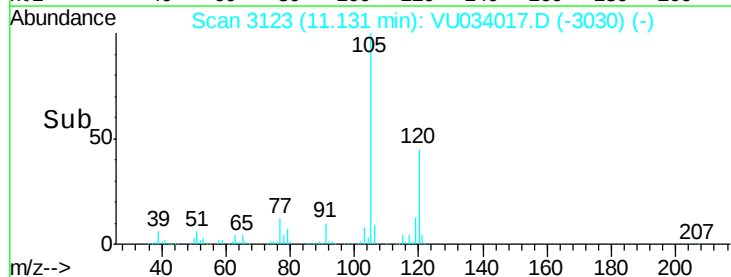
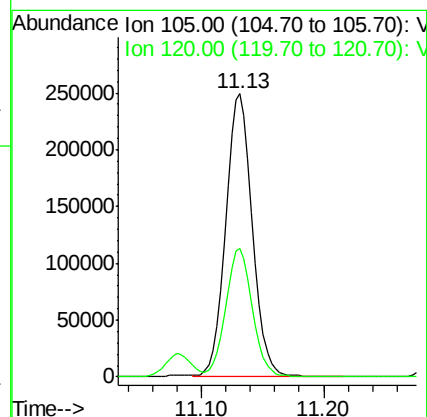
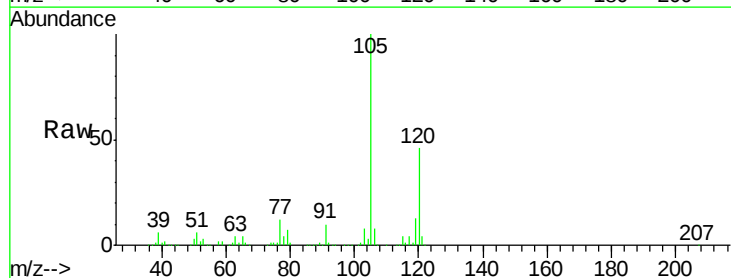
RT: 11.13 min Scan# 3123

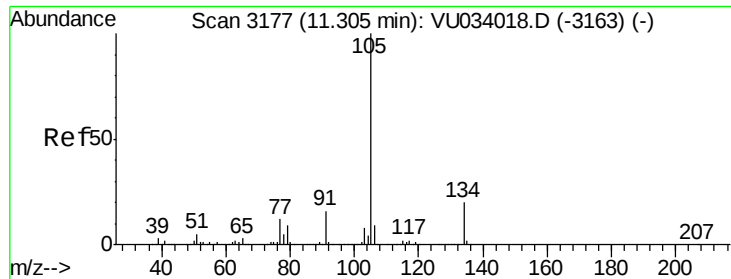
Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	105	Resp:	380580
Ion Ratio	Lower	Upper	
105	100		
120	45.3	22.6	67.8





#85

sec-Butylbenzene

Concen: 20.859 ug/l

RT: 11.30 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 437990

Ion Ratio Lower Upper

105 100

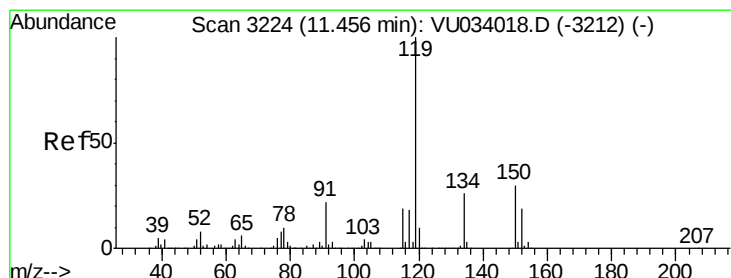
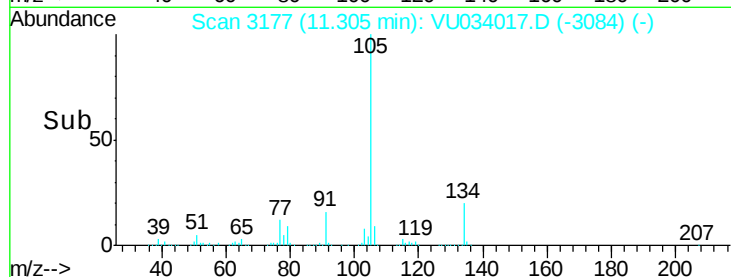
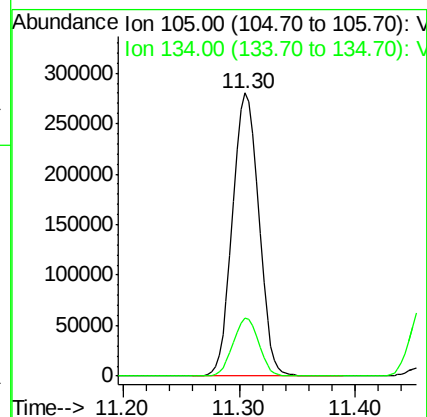
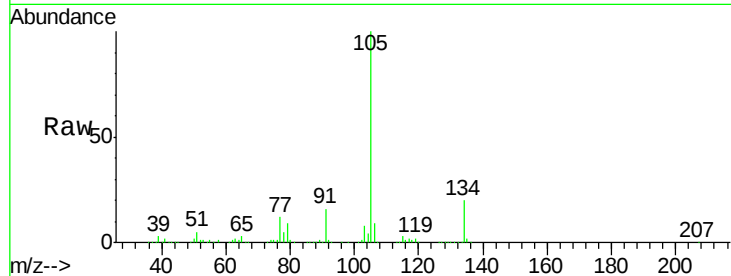
134 20.0 10.0 30.0

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#86

p-Isopropyltoluene

Concen: 20.491 ug/l

RT: 11.46 min Scan# 3225

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

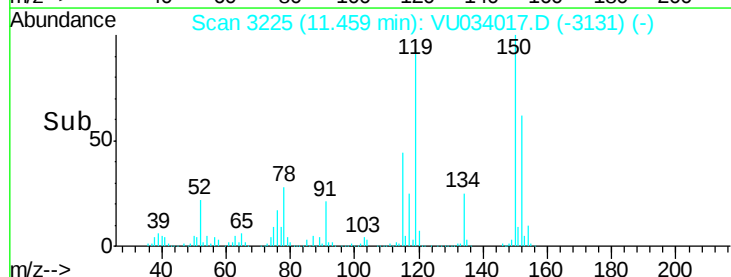
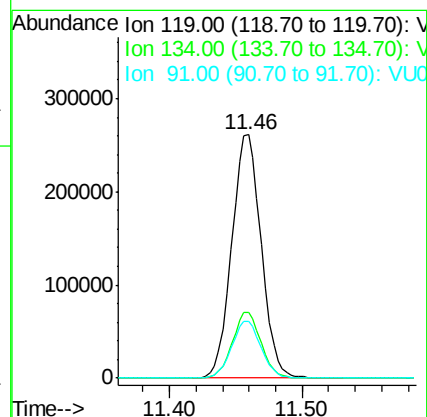
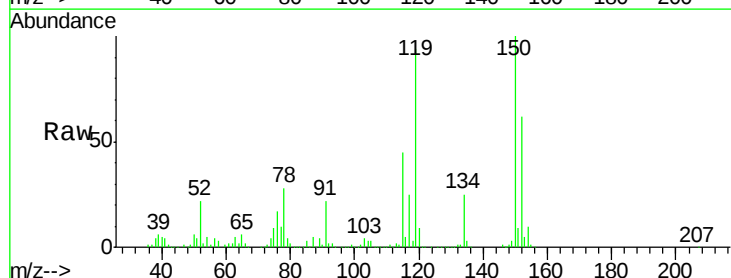
Tgt Ion:119 Resp: 400497

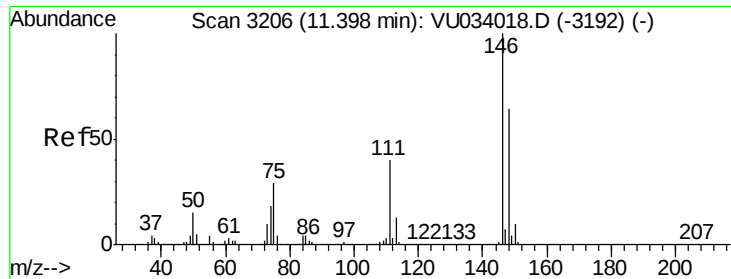
Ion Ratio Lower Upper

119 100

134 26.6 13.1 39.1

91 23.3 11.2 33.6





#87

1,3-Dichlorobenzene

Concen: 19.473 ug/l

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

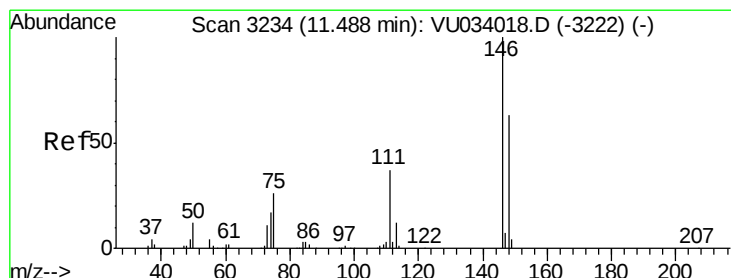
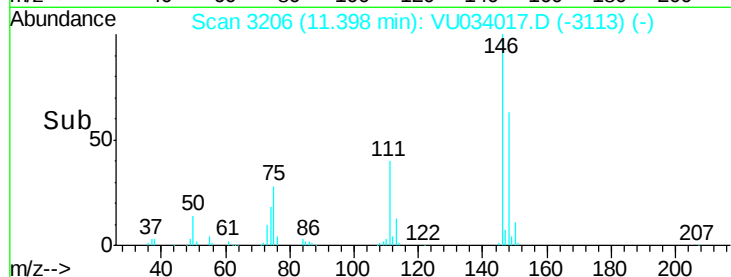
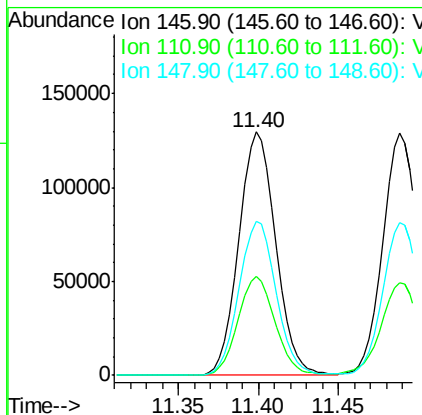
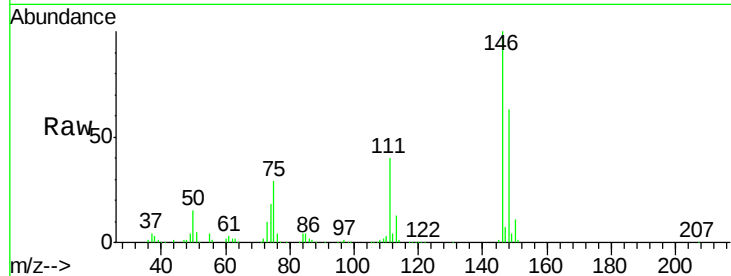
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	204173
Ion Ratio		Lower	Upper
146	100		
111	40.6	19.9	59.6
148	63.7	31.9	95.5

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#88

1,4-Dichlorobenzene

Concen: 19.395 ug/l

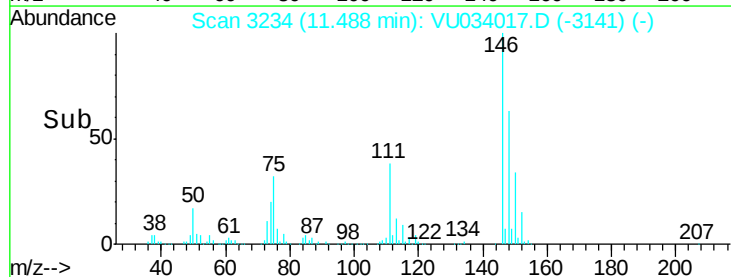
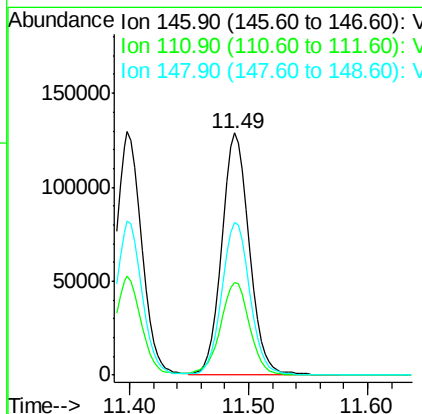
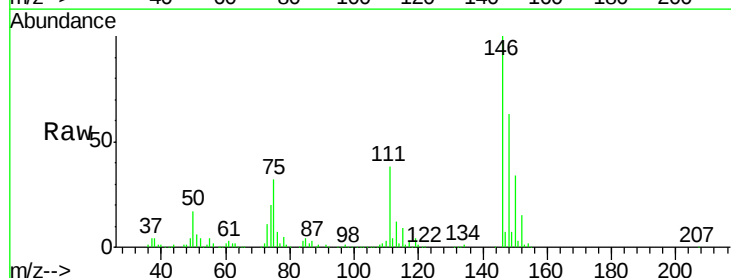
RT: 11.49 min Scan# 3234

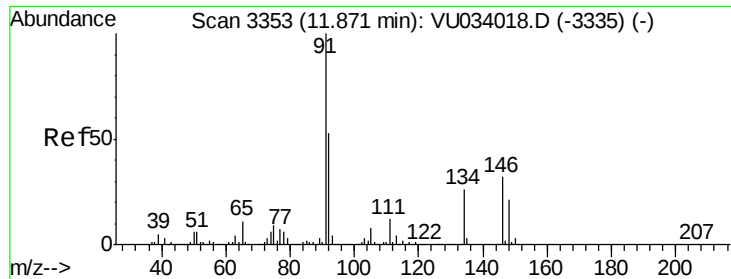
Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	146	Resp:	205060
Ion Ratio		Lower	Upper
146	100		
111	40.1	19.2	57.6
148	64.4	31.9	95.9





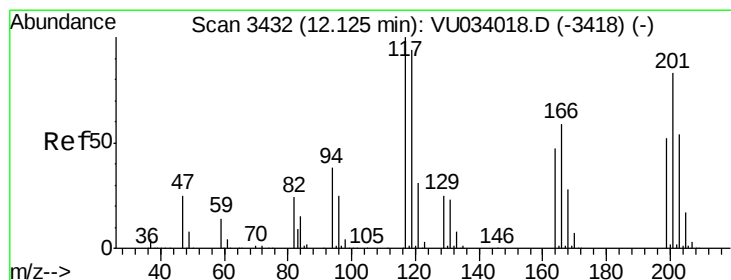
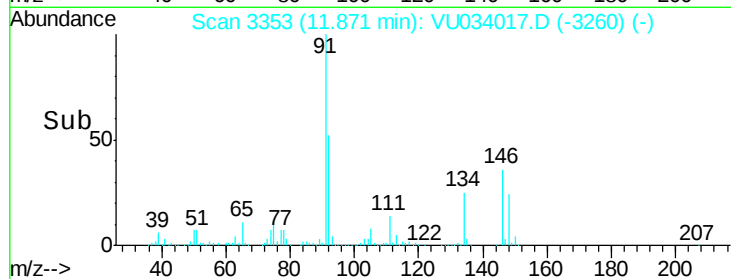
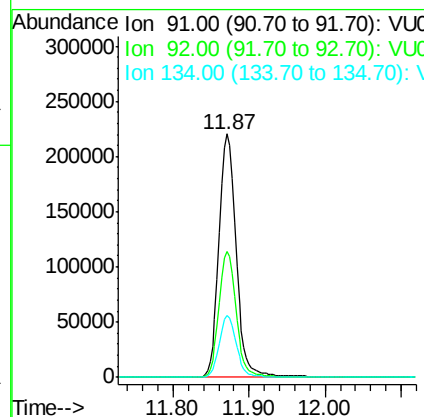
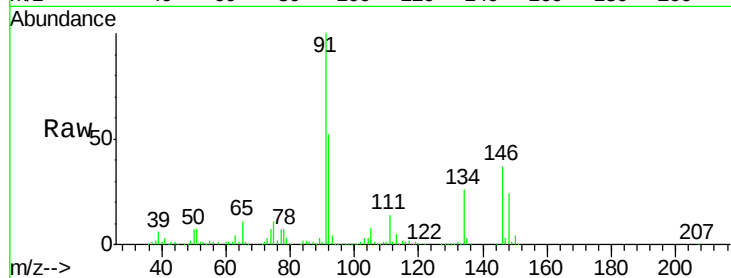
#89
n-Butylbenzene
Concen: 21.011 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.3	78.9
134	25.0	12.9	38.7

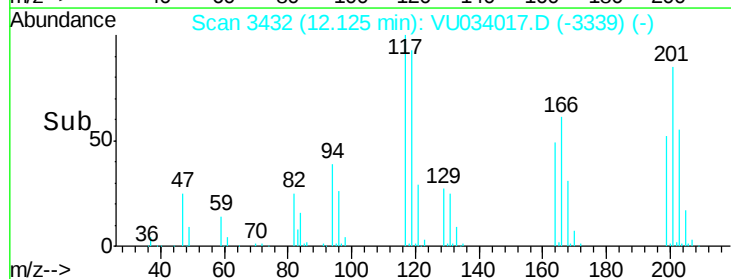
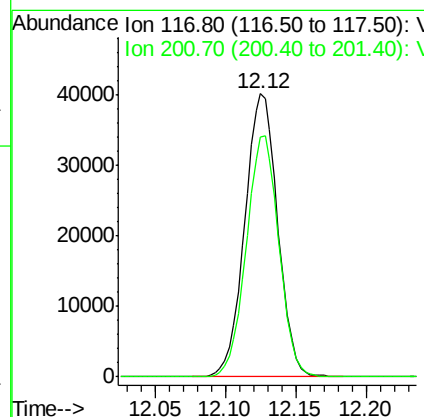
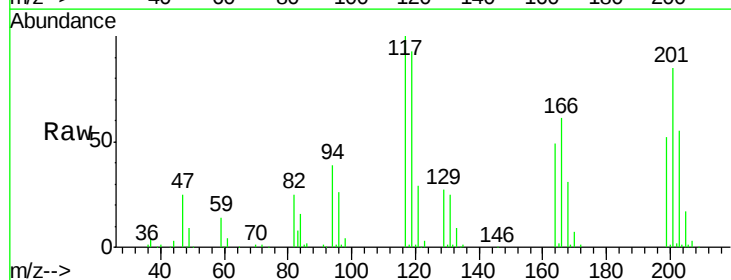
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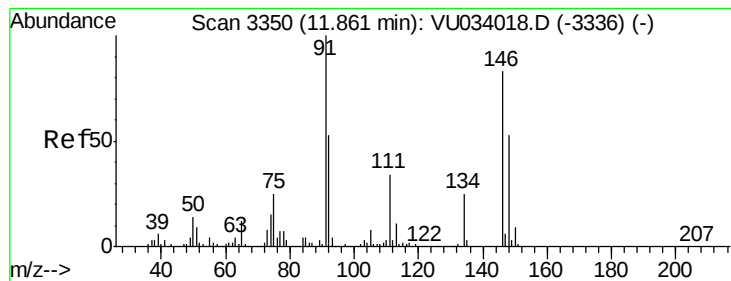
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#90
Hexachloroethane
Concen: 20.258 ug/l
RT: 12.12 min Scan# 3432
Delta R.T. -0.00 min
Lab File: VU034017.D
Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.4	42.5	127.6





#91

1,2-Dichlorobenzene

Concen: 19.378 ug/l

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC020

Tot Ion: 146 Resp: 199559

Ion Ratio Lower Upper

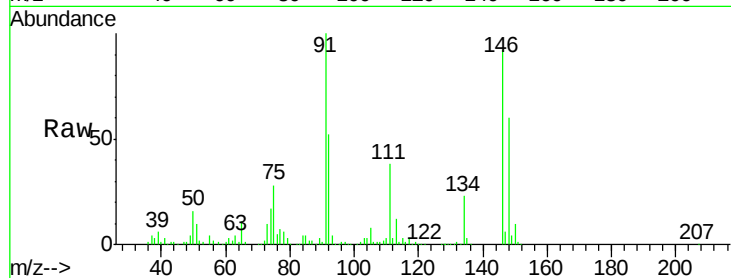
146 100

111 41.4 20.4 61.2

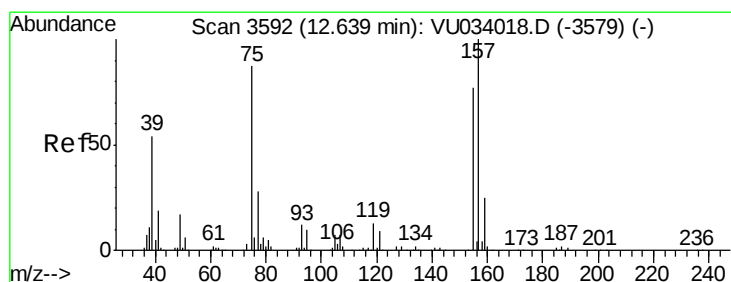
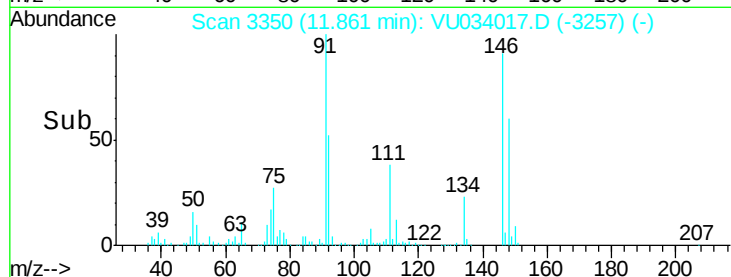
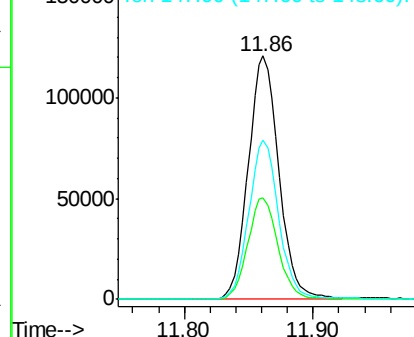
148 64.7 32.3 96.8

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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.697 ug/l

RT: 12.64 min Scan# 3592

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

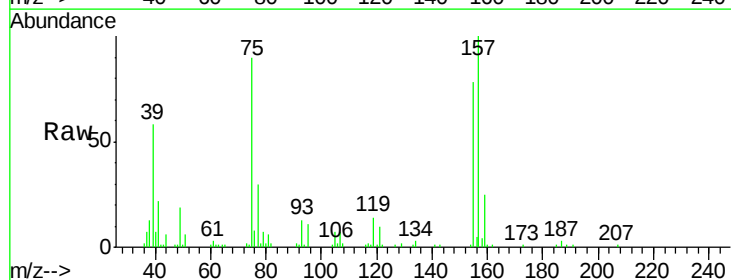
Tgt Ion: 75 Resp: 33043

Ion Ratio Lower Upper

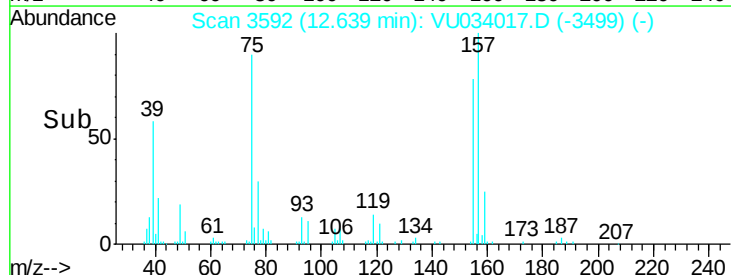
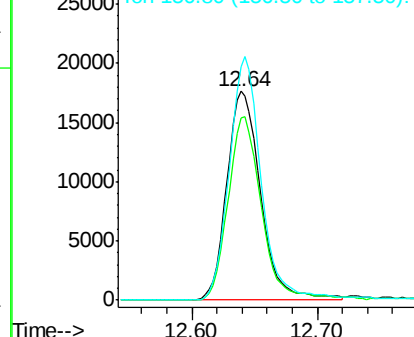
75 100

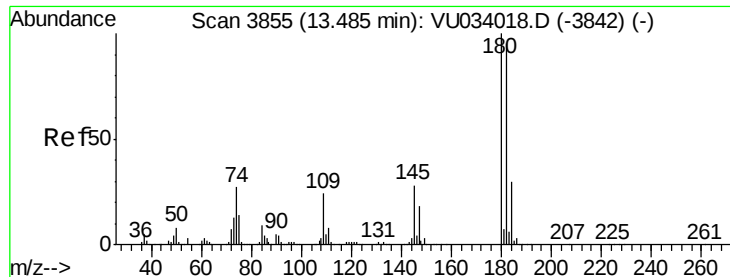
155 86.2 43.5 130.7

157 109.7 56.9 170.6



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





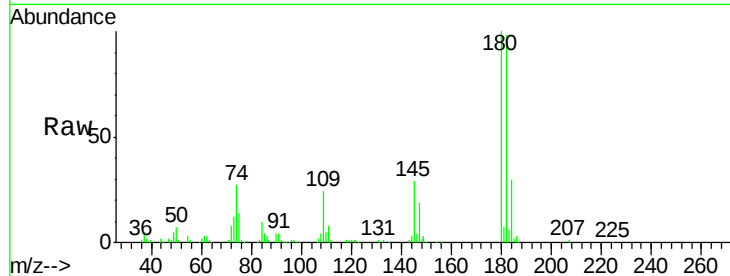
#93
 1,2,4-Trichlorobenzene
 Concen: 19.062 ug/l
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC020

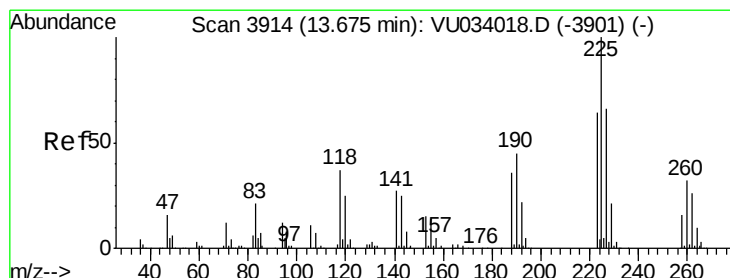
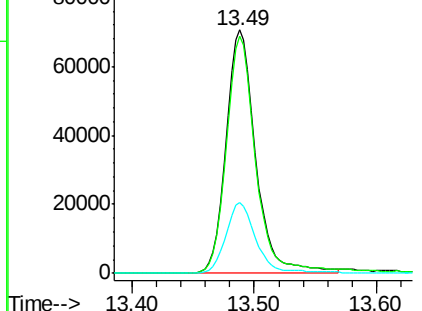
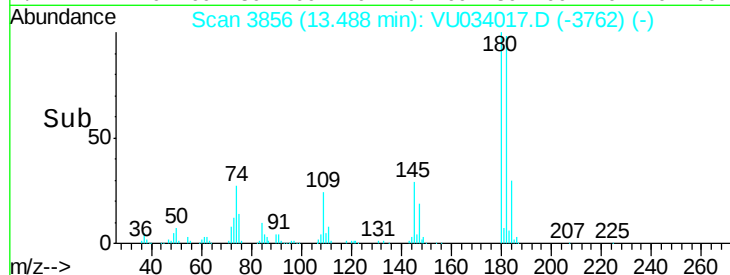
Tot Ion	Ratio	Resp	Lower	Upper
180	100	120192		
182	98.0	47.4	142.2	
145	29.3	14.1	42.3	

Manual Integrations
 APPROVED

MMDadoda
 8/29/2019 8:27:35 AM

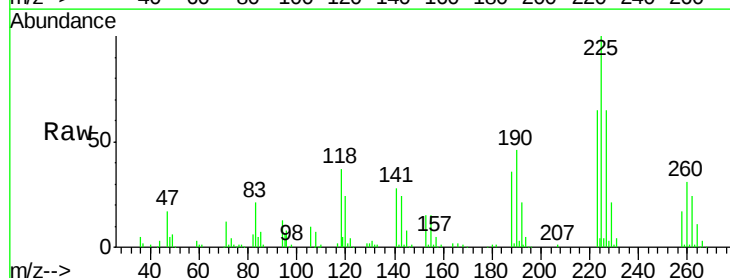


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

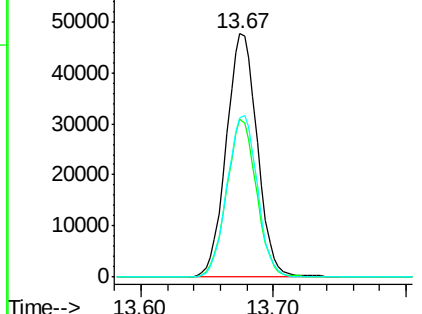
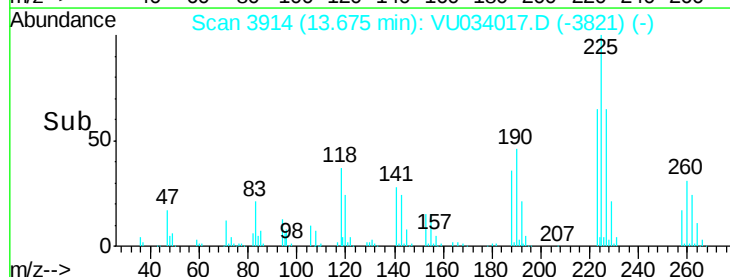


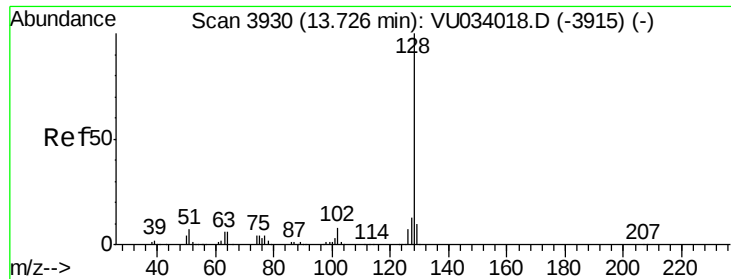
#94
 Hexachlorobutadiene
 Concen: 18.518 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. -0.00 min
 Lab File: VU034017.D
 Acq: 28 Aug 2019 12:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	77395		
223	62.2	31.8	95.3	
227	64.6	32.6	97.8	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 19.942 ug/l

RT: 13.73 min Scan# 3930

Delta R.T. -0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Instrument :

MSVOA_U

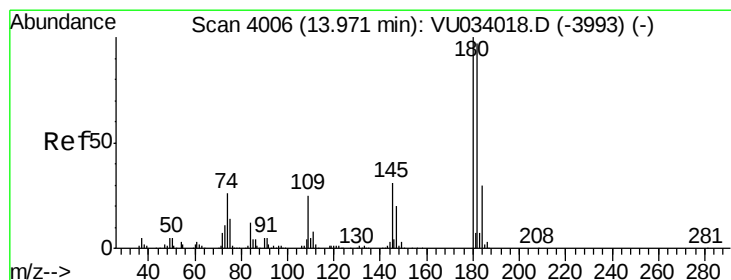
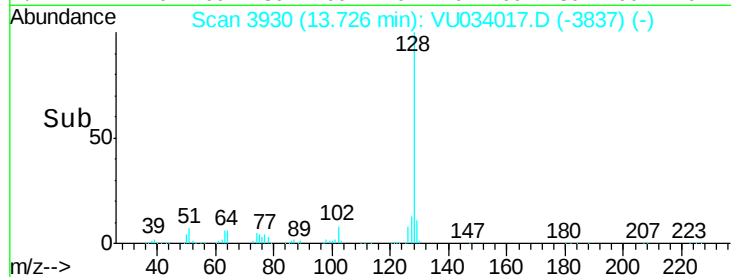
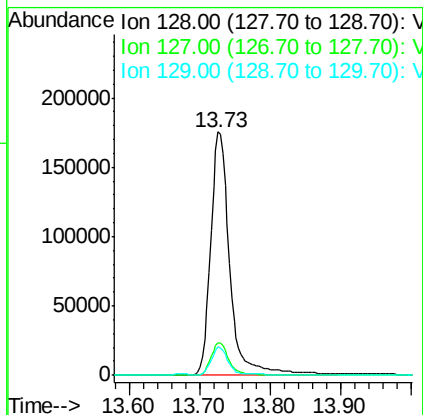
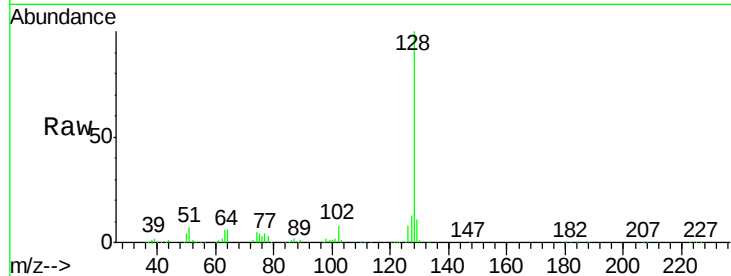
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	333362
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.0	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
8/29/2019 8:27:35 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.121 ug/l

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU034017.D

Acq: 28 Aug 2019 12:26

Tgt Ion:	180	Resp:	124539
Ion Ratio	Lower	Upper	
180	100		
182	94.3	48.2	144.6
145	30.8	15.5	46.5

