

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101219\
 Data File : VU035138.D
 Acq On : 12 Oct 2019 11:47
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 14 01:22:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 14 01:16:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	156071	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	160239	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	81122	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	43275	4.69	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.80%
7) Chloroethane-d5	1.67	69	41974	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.40%
11) 1,1-Dichloroethene-d2	2.26	63	93164	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.80%
20) 2-Butanone-d5	4.17	46	150200	55.28	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.56%
24) Chloroform-d	4.62	84	86879	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
26) 1,2-Dichloroethane-d4	5.29	65	49785	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.32	84	169426	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
36) 1,2-Dichloropropane-d6	6.31	67	60041	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.60%
41) Toluene-d8	7.55	98	157707	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.80%
43) trans-1,3-Dichloropropene-	7.83	79	19518	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
46) 2-Hexanone-d5	8.30	63	108846	50.63	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.26%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	54734	5.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.40%
64) 1,2-Dichlorobenzene-d4	11.84	152	62231	4.55	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	68590	4.809	ug/L 99
3) Chloromethane	1.32	50	74870	4.785	ug/L 98
5) Vinyl chloride	1.40	62	74766	4.865	ug/L 100
6) Bromomethane	1.62	94	33166	3.882	ug/L 91
8) Chloroethane	1.69	64	46256	5.018	ug/L 94
9) Trichlorofluoromethane	1.88	101	95885	5.159	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	52333	4.904	ug/L 97
12) 1,1-Dichloroethene	2.27	96	49888	4.976	ug/L 83
13) Acetone	2.31	43	115044	51.702	ug/L 94
14) Carbon disulfide	2.47	76	153367	4.597	ug/L 100
15) Methyl Acetate	2.61	43	31239	5.274	ug/L 94
16) Methylene chloride	2.68	84	59419	4.788	ug/L 84
17) Methyl tert-butyl Ether	2.99	73	141616	5.178	ug/L 96
18) trans-1,2-Dichloroethene	2.96	96	51157	4.766	ug/L 90
19) 1,1-Dichloroethane	3.42	63	111024	5.204	ug/L 98
21) 2-Butanone	4.25	43	167130	52.743	ug/L 94
22) cis-1,2-Dichloroethene	4.20	96	60704	5.070	ug/L 93

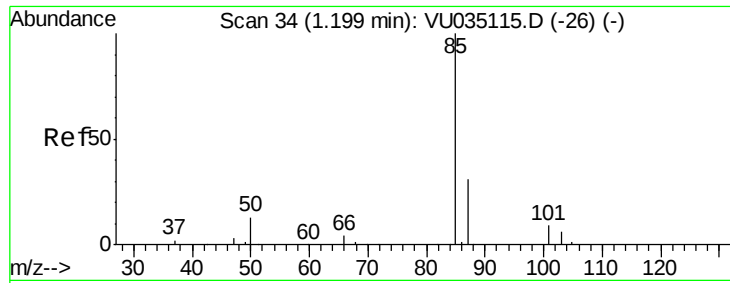
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101219\
 Data File : VU035138.D
 Acq On : 12 Oct 2019 11:47
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Quant Time: Oct 14 01:22:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 14 01:16:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	26622	5.305	ug/L	93
25) Chloroform	4.65	83	119400	4.981	ug/L	97
27) 1,2-Dichloroethane	5.39	62	70608	5.043	ug/L	99
29) 1,1,1-Trichloroethane	4.89	97	88938	4.942	ug/L	97
30) Cyclohexane	4.97	56	87699	4.432	ug/L	96
31) Carbon tetrachloride	5.11	117	78342	5.020	ug/L	100
33) Benzene	5.37	78	236515	4.900	ug/L	100
34) Trichloroethene	6.16	95	59613	4.789	ug/L	99
35) Methylcyclohexane	6.39	83	86384	4.285	ug/L	96
37) 1,2-Dichloropropane	6.41	63	68497	5.261	ug/L	99
38) Bromodichloromethane	6.74	83	76656	5.022	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	79014	4.480	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	414428	50.573	ug/L	96
42) Toluene	7.62	91	258001	5.121	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	62719	4.591	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	44669	5.167	ug/L	94
47) Tetrachloroethene	8.21	164	47175	4.682	ug/L	95
48) 2-Hexanone	8.35	43	290656	51.732	ug/L	95
49) Dibromochloromethane	8.46	129	51700	5.174	ug/L	95
50) 1,2-Dibromoethane	8.57	107	41717	5.049	ug/L	99
51) Chlorobenzene	9.10	112	160813	4.925	ug/L	97
52) Ethylbenzene	9.23	91	266335	4.786	ug/L	100
53) m,p-Xylene	9.36	106	97701	4.753	ug/L	97
54) o-Xylene	9.76	106	97339	4.842	ug/L	97
55) Styrene	9.77	104	168370	5.172	ug/L	100
56) Isopropylbenzene	10.15	105	260654	4.867	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	60917	5.181	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	42850	5.084	ug/L	98
61) Bromoform	9.94	173	28489	5.120	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	123494	4.942	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	123830	4.910	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	118091	4.897	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.64	75	8069	5.265	ug/L	93
67) 1,3,5-Trichlorobenzene	12.87	180	76379	4.514	ug/L	98
68) 1,2,4-trichlorobenzene	13.48	180	51155	4.048	ug/L	99
69) Naphthalene	13.72	128	67780	3.449	ug/L	100
70) 1,2,3-Trichlorobenzene	13.96	180	53401	4.345	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.809 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

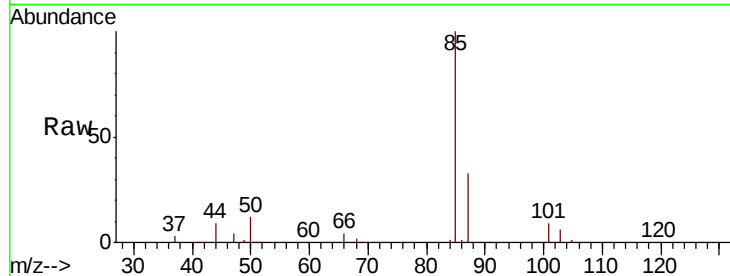
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 68590

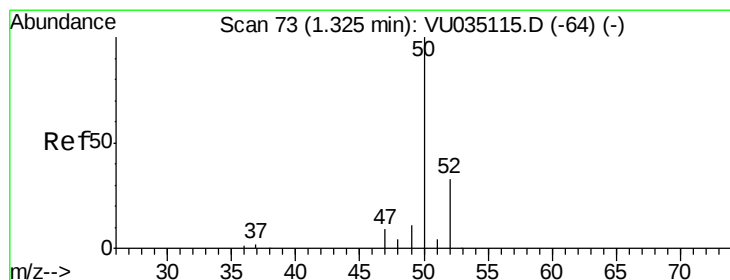
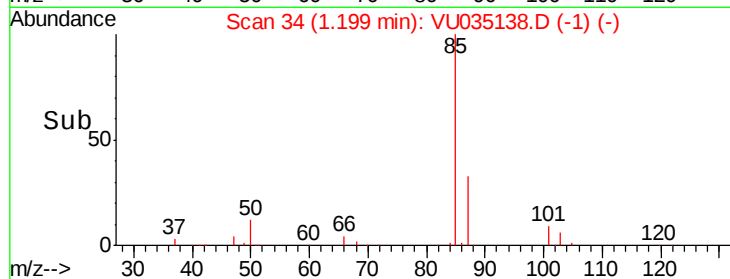
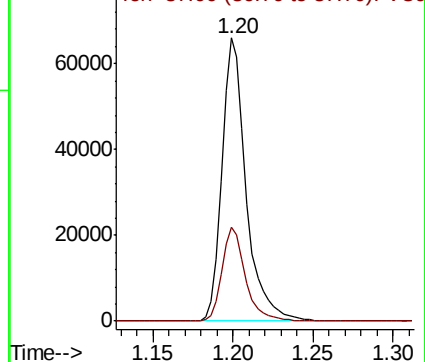
Ion Ratio Lower Upper

85 100

87 32.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.785 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU035138.D

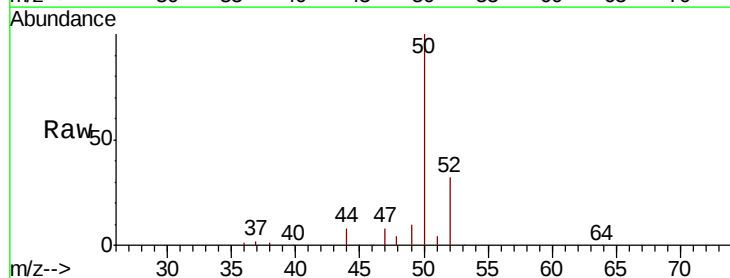
Acq: 12 Oct 2019 11:47

Tgt Ion: 50 Resp: 74870

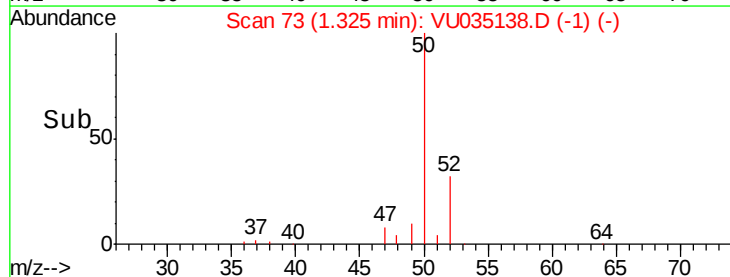
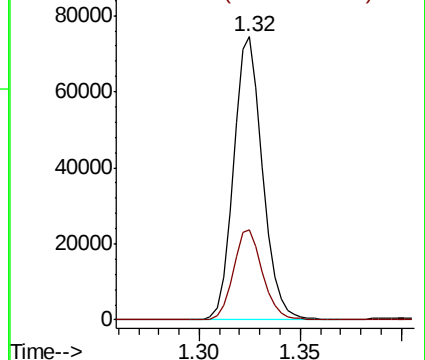
Ion Ratio Lower Upper

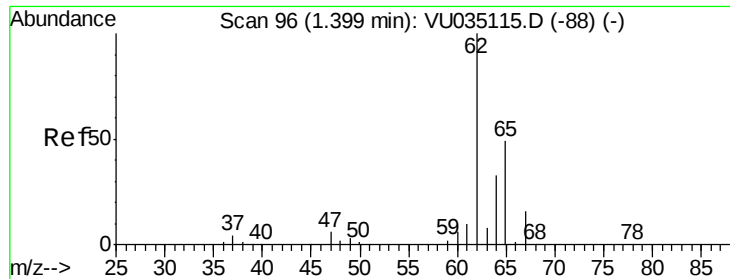
50 100

52 32.0 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU0
Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.865 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

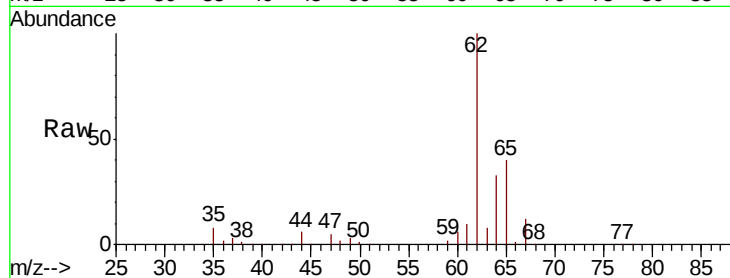
ClientSampleId :

Tot Ion: 62 Resp: 74766

Ion Ratio Lower Upper

62 100

64 32.9 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU035115.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU035115.D (-88) (-)

1.40

80000

60000

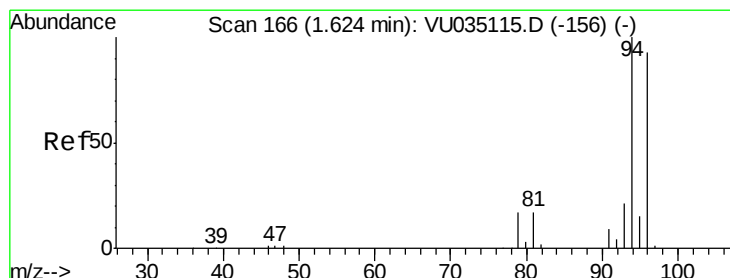
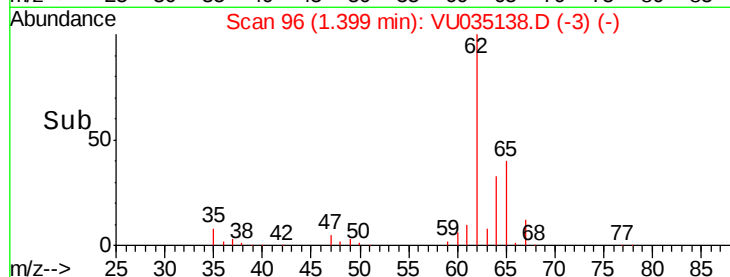
40000

20000

0

1.35 1.40 1.45 1.50

Time-->



#6

Bromomethane

Concen: 3.882 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU035138.D

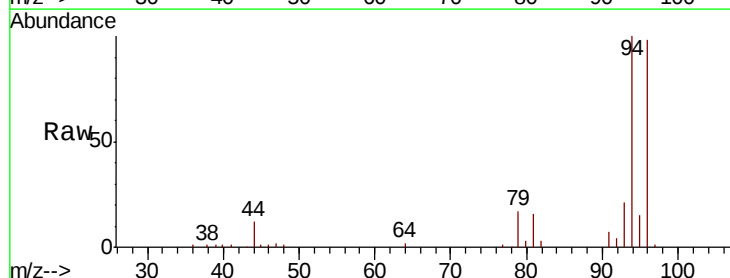
Acq: 12 Oct 2019 11:47

Tgt Ion: 94 Resp: 33166

Ion Ratio Lower Upper

94 100

96 97.6 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU035115.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035115.D (-156) (-)

1.62

30000

25000

20000

15000

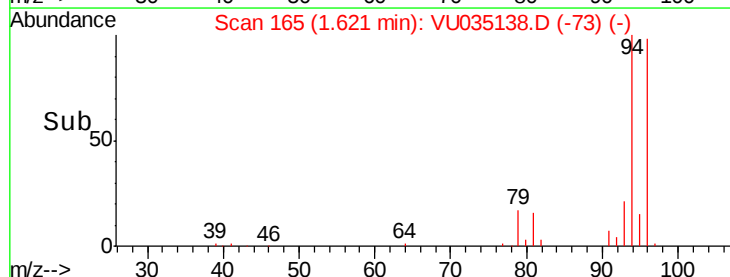
10000

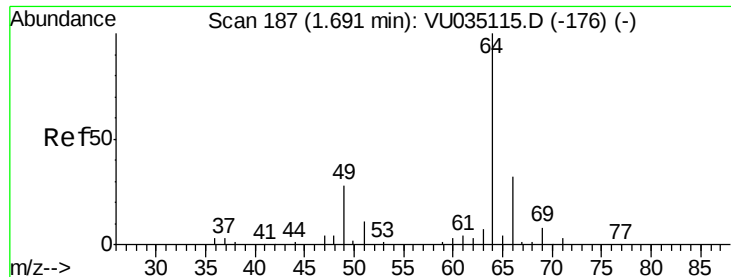
5000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 5.018 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

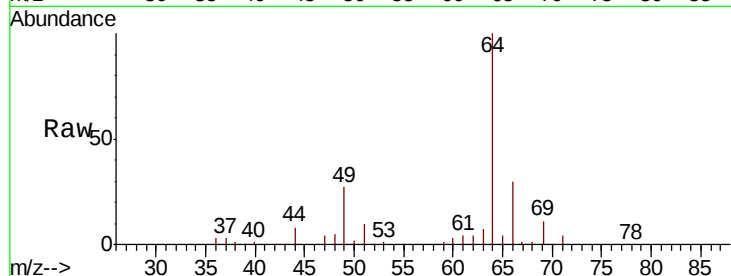
ClientSampleId :

Tot Ion: 64 Resp: 46256

Ion Ratio Lower Upper

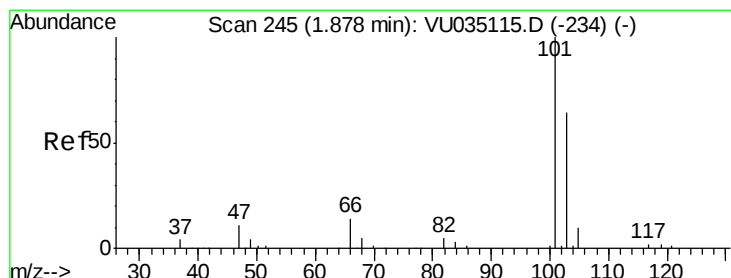
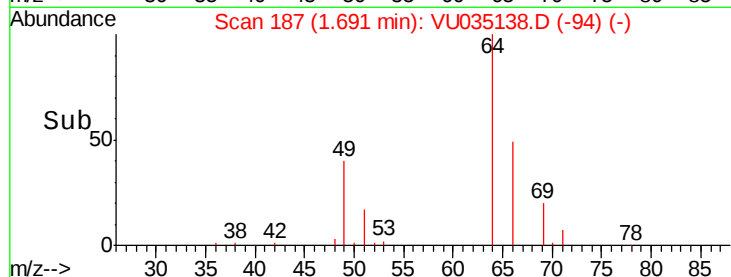
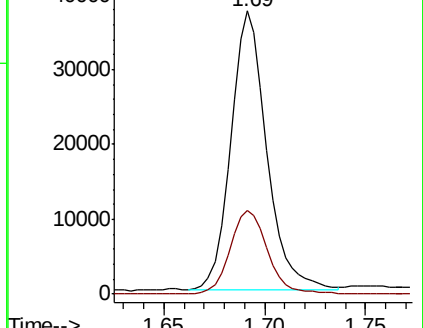
64 100

66 29.6 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU035115.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU035115.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 5.159 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU035138.D

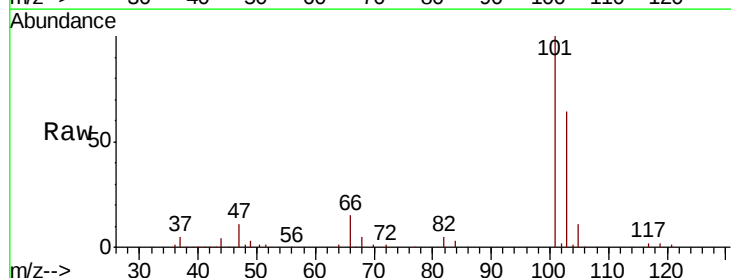
Acq: 12 Oct 2019 11:47

Tgt Ion:101 Resp: 95885

Ion Ratio Lower Upper

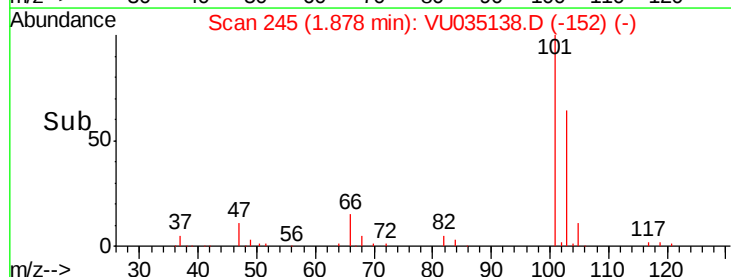
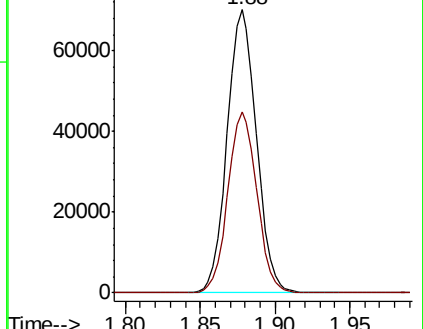
101 100

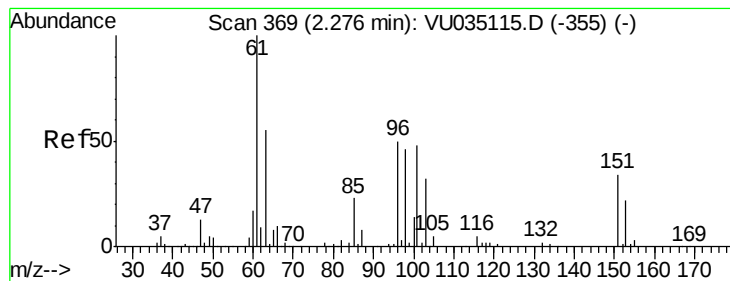
103 63.2 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU035115.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU035115.D (-234) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.904 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

ClientSampled :

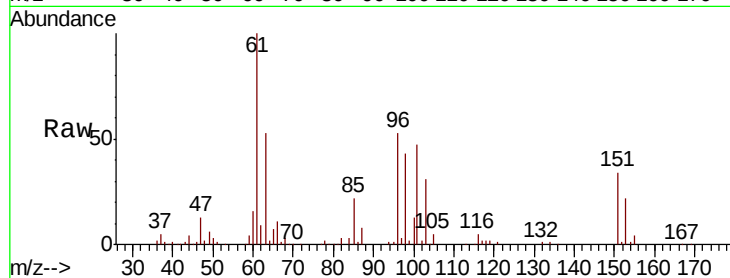
Tot Ion:101 Resp: 52333

Ion Ratio Lower Upper

101 100

85 46.0 37.4 56.0

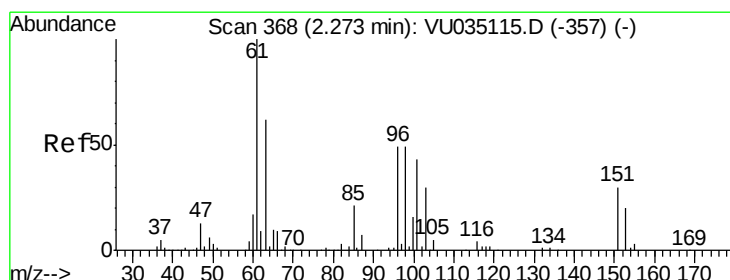
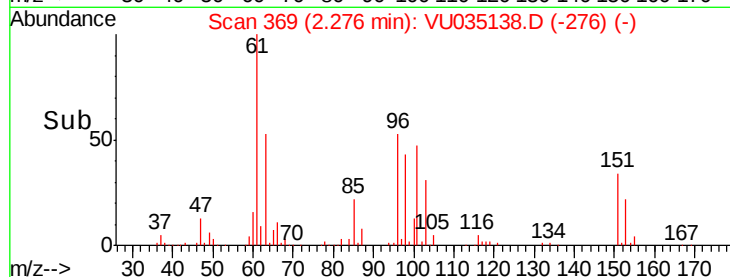
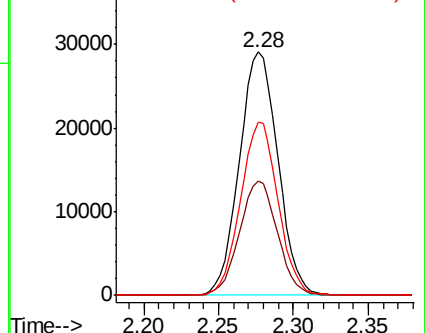
151 69.1 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.976 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

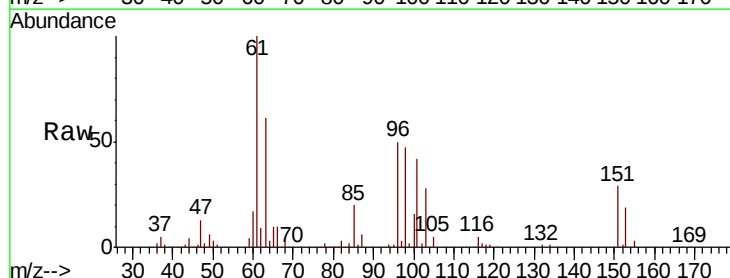
Tgt Ion: 96 Resp: 49888

Ion Ratio Lower Upper

96 100

61 198.7 129.3 240.1

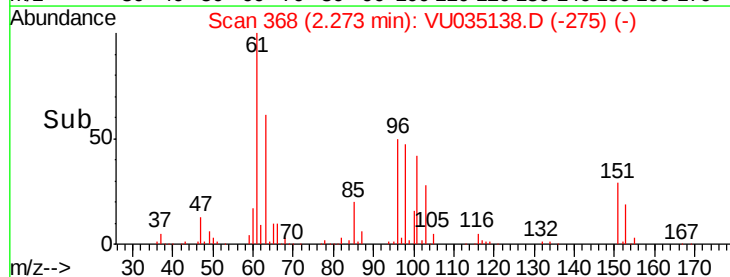
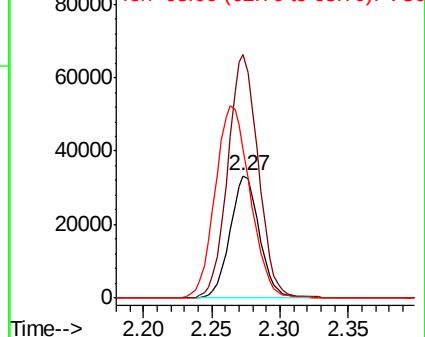
63 121.2 108.9 202.3

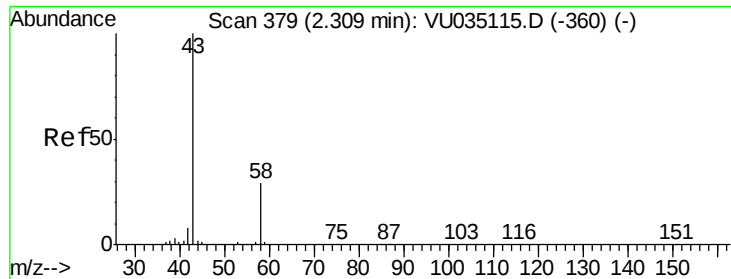


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.702 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

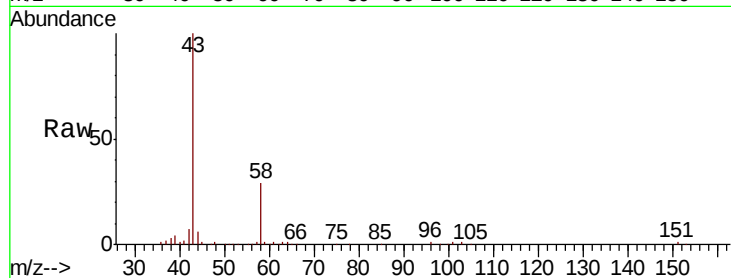
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 115044

Ion Ratio Lower Upper

43 100

58 29.9 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU035115.D (-360) (-)

Ion 58.05 (57.75 to 58.75): VU035115.D (-360) (-)

2.31

60000

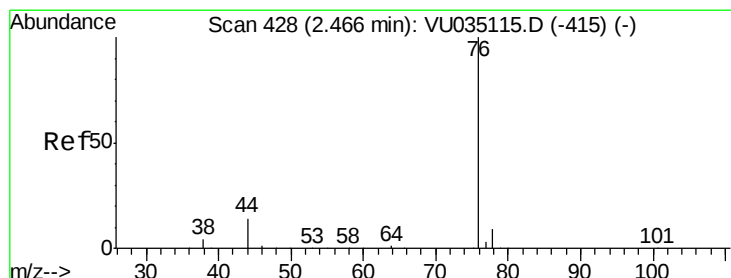
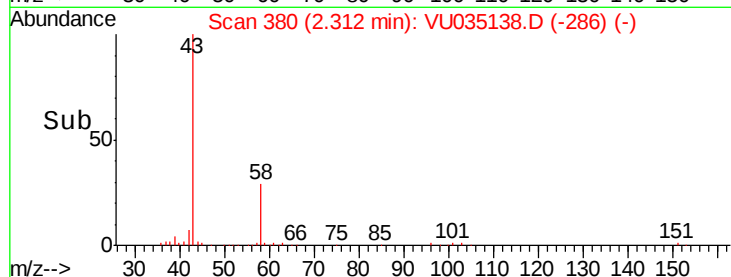
40000

20000

0

Time-->

2.20 2.30 2.40



#14

Carbon disulfide

Concen: 4.597 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VU035138.D

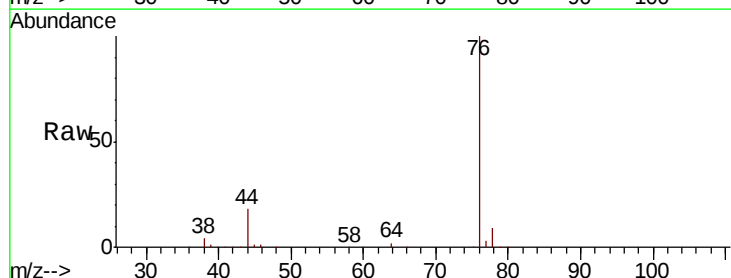
Acq: 12 Oct 2019 11:47

Tgt Ion: 76 Resp: 153367

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU035115.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU035115.D (-415) (-)

2.47

100000

80000

60000

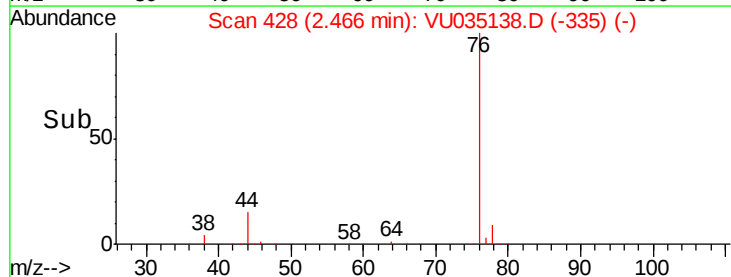
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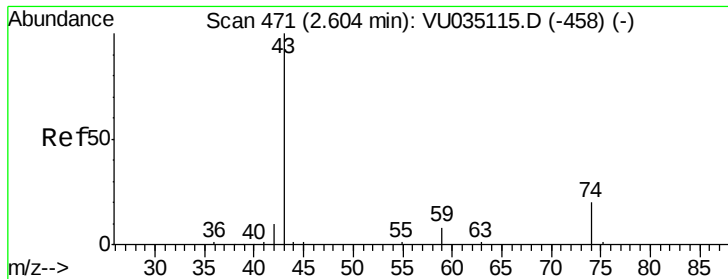
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Time-->

2.40 2.50 2.60

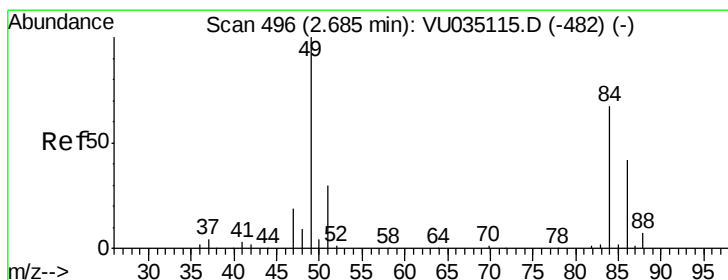
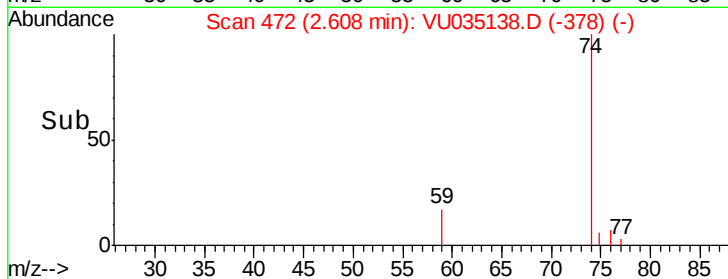
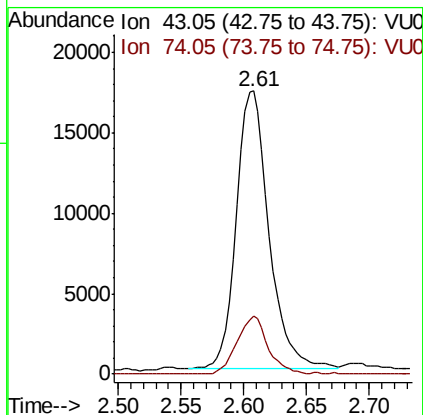
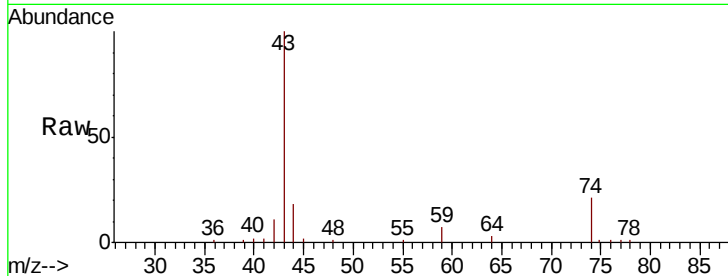




#15
Methvl Acetate
Concen: 5.274 ug/L
RT: 2.61 min Scan# 472
Delta R.T. 0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

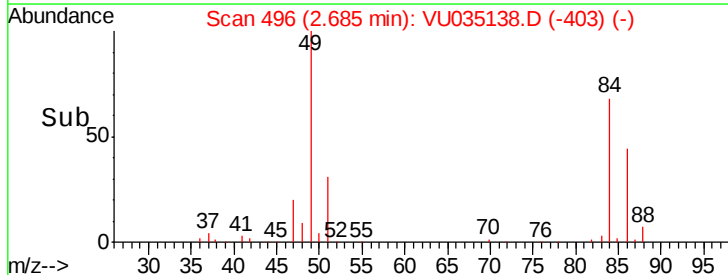
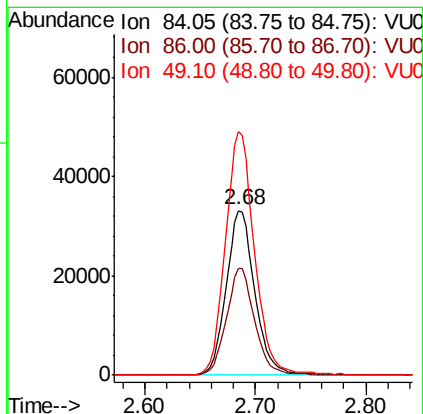
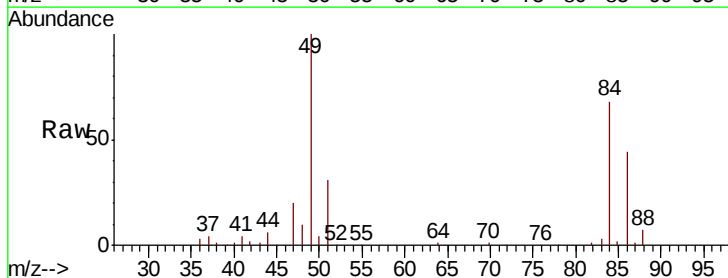
Instrument :
MSVOA_U
ClientSampleId :

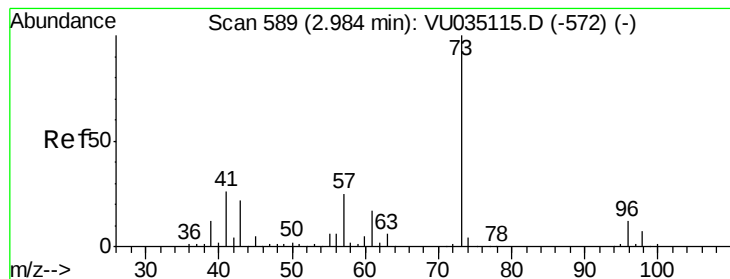
Tot Ion: 43 Resp: 31239
Ion Ratio Lower Upper
43 100
74 19.6 17.8 26.8



#16
Methylene chloride
Concen: 4.788 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Tgt Ion: 84 Resp: 59419
Ion Ratio Lower Upper
84 100
86 65.2 42.5 78.9
49 147.9 86.9 161.3



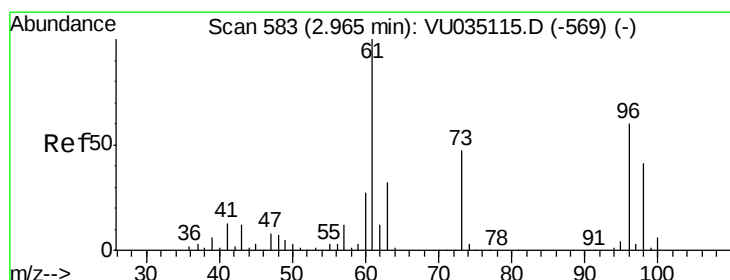
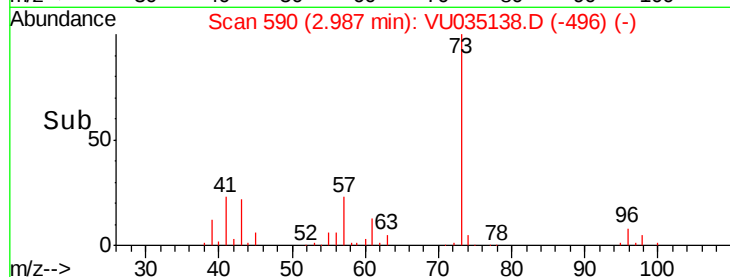
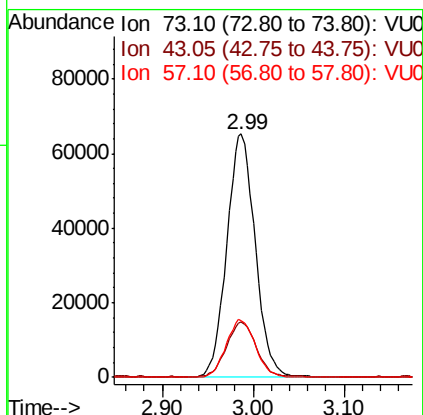
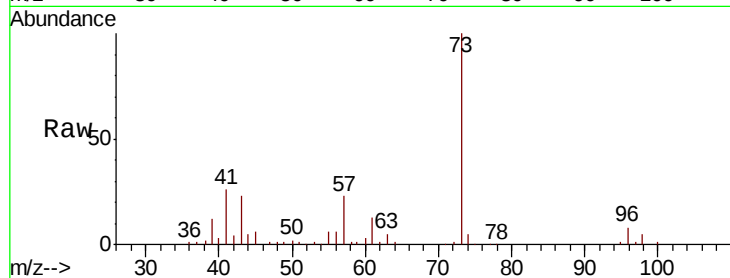


#17

Methvl tert-butvl Ether
 Concen: 5.178 ug/L
 RT: 2.99 min Scan# 590
 Delta R.T. 0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Instrument :
 MSVOA_U
 ClientSampleId :

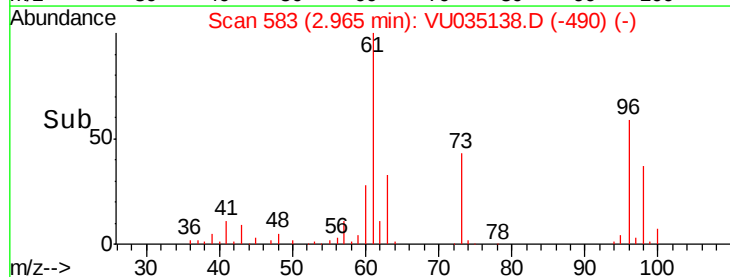
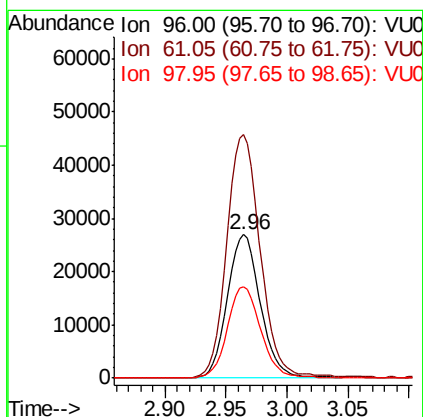
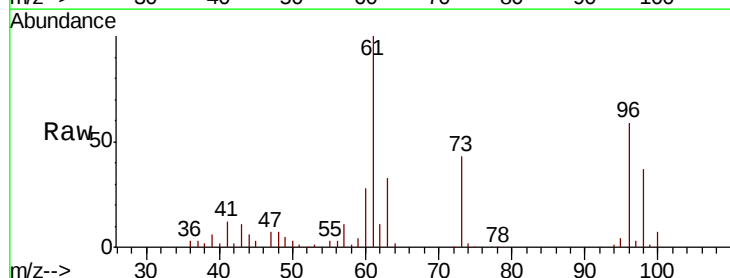
Tot Ion: 73 Resp: 141616
 Ion Ratio Lower Upper
 73 100
 43 23.2 16.3 24.5
 57 24.3 18.6 28.0

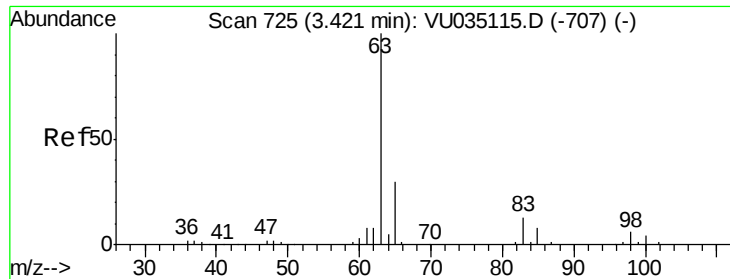


#18

trans-1,2-Dichloroethene
 Concen: 4.766 ug/L
 RT: 2.96 min Scan# 583
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Tgt Ion: 96 Resp: 51157
 Ion Ratio Lower Upper
 96 100
 61 169.8 107.1 198.9
 98 63.7 45.4 84.4

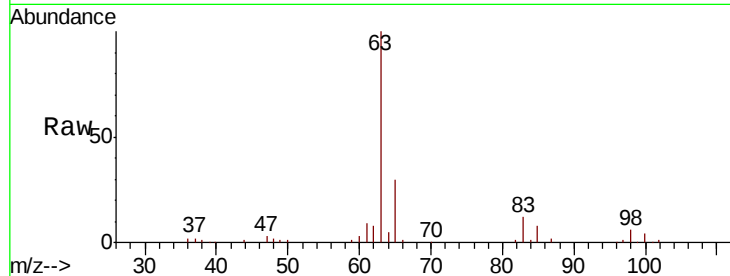




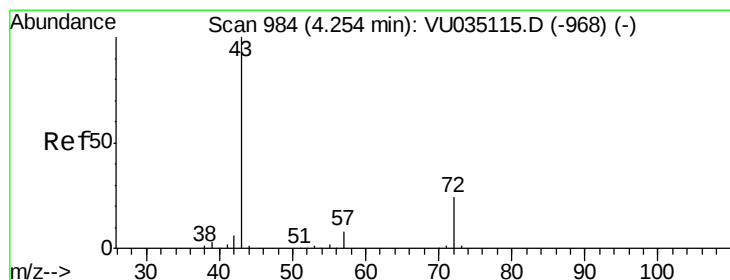
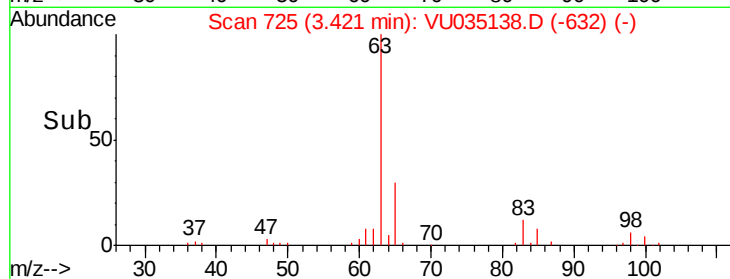
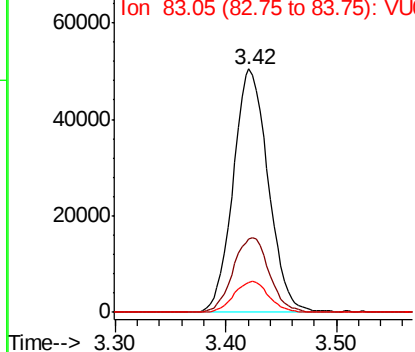
#19
 1,1-Dichloroethane
 Concen: 5.204 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 111024
 Ion Ratio Lower Upper
 63 100
 65 30.0 21.7 40.3
 83 12.5 9.0 16.8

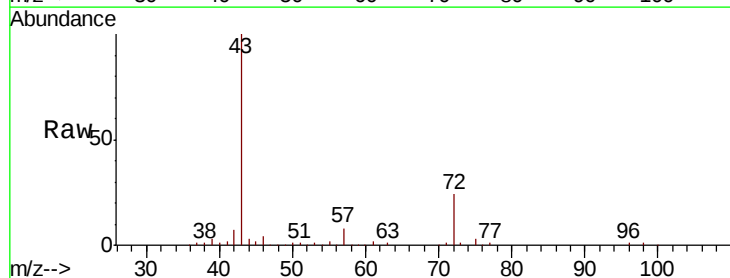


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

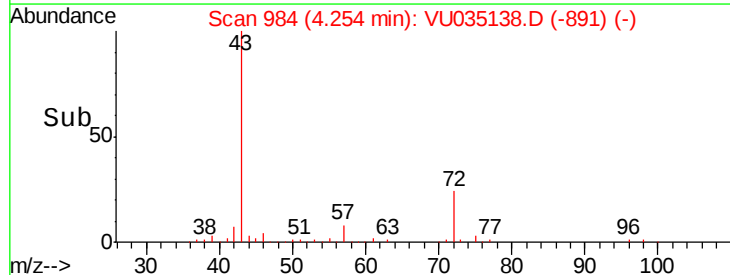
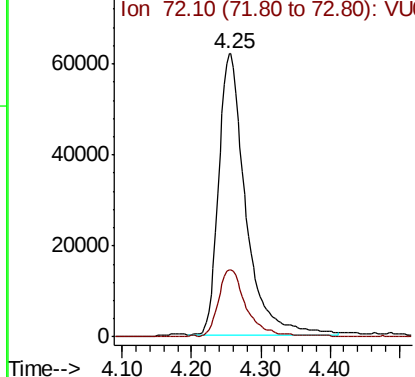


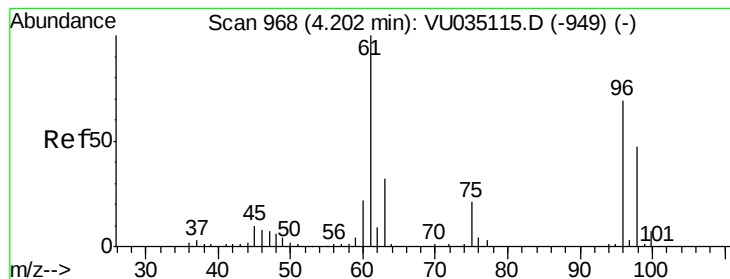
#21
 2-Butanone
 Concen: 52.743 ug/L
 RT: 4.25 min Scan# 984
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Tgt Ion: 43 Resp: 167130
 Ion Ratio Lower Upper
 43 100
 72 24.0 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



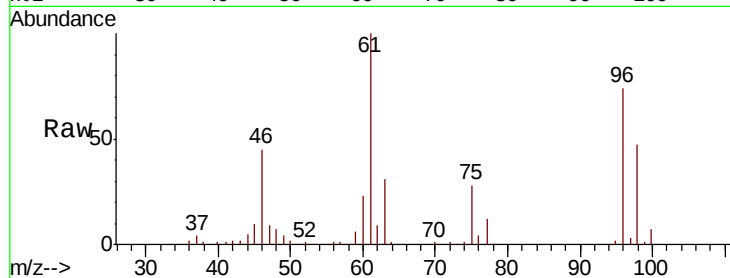


#22

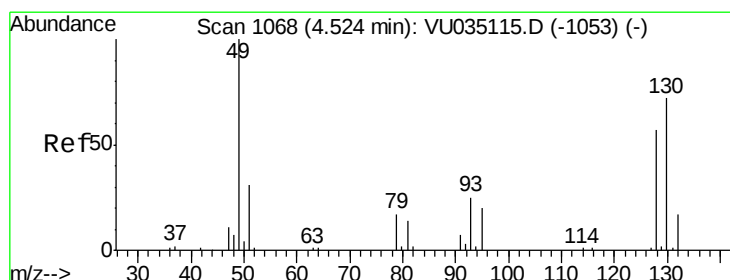
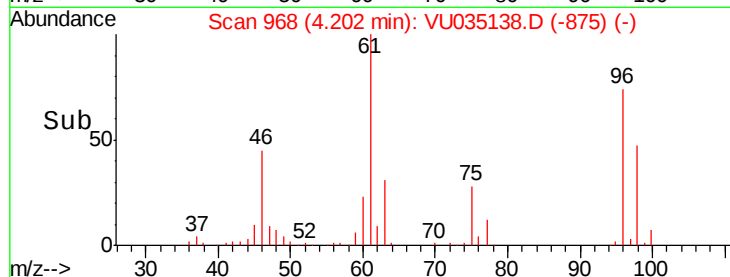
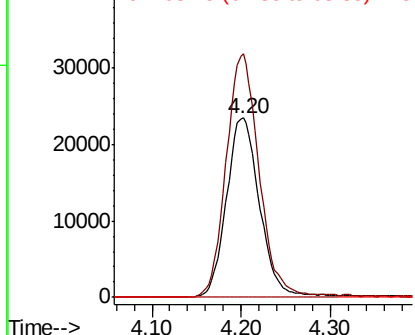
cis-1,2-Dichloroethene
Concen: 5.070 ug/L
RT: 4.20 min Scan# 968
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 60704
Ion Ratio Lower Upper
96 100
61 135.9 89.2 165.6
68 0.0 0.0 0.0



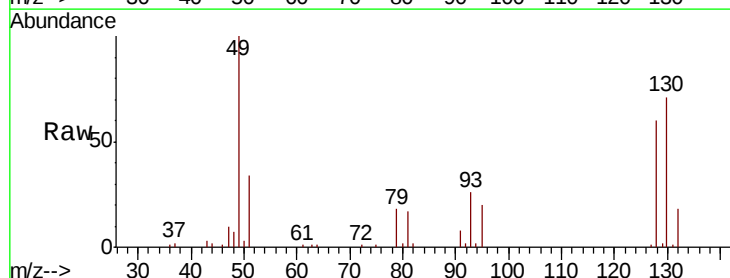
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



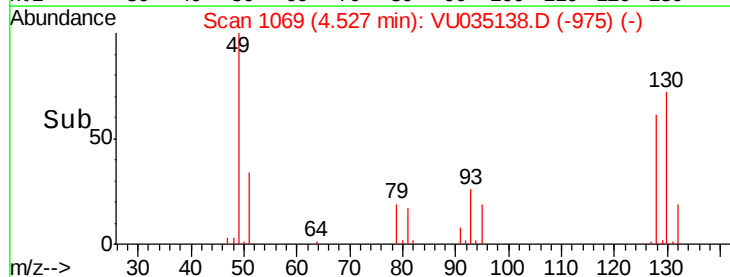
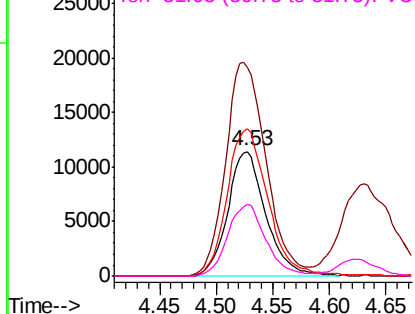
#23

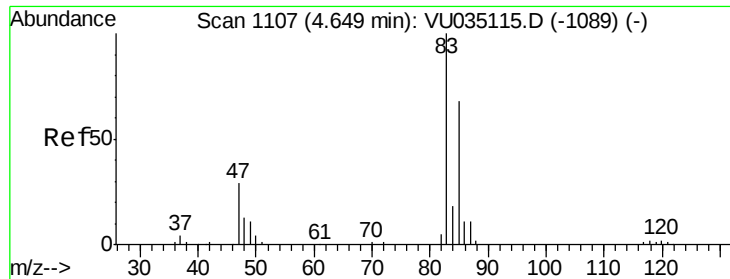
Bromochloromethane
Concen: 5.305 ug/L
RT: 4.53 min Scan# 1069
Delta R.T. 0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Tgt Ion: 128 Resp: 26622
Ion Ratio Lower Upper
128 100
49 167.5 110.5 205.3
130 118.2 88.6 164.6
51 57.5 43.2 64.8



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

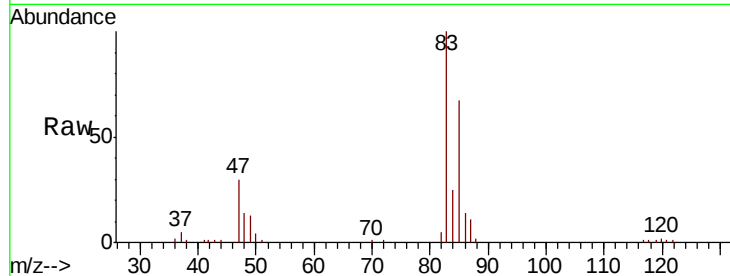




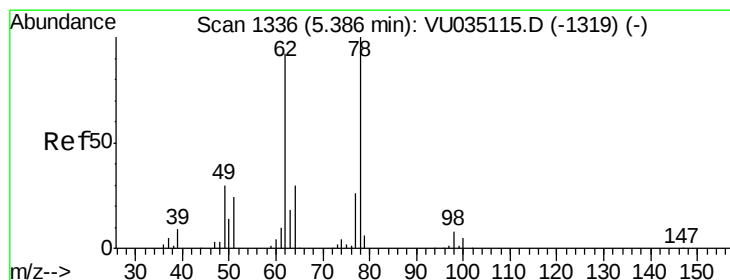
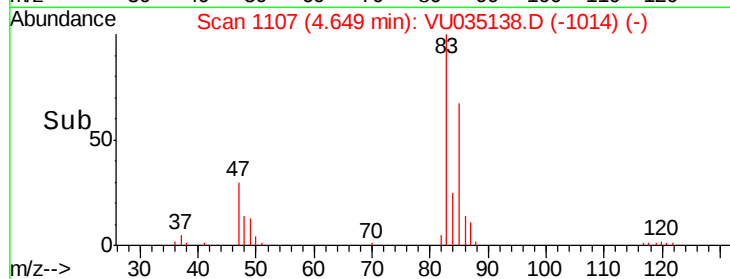
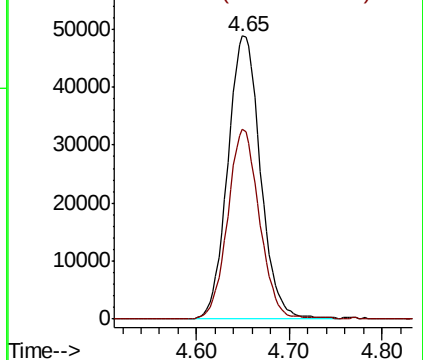
#25
Chloroform
Concen: 4.981 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 119400
Ion Ratio Lower Upper
83 100
85 66.9 45.4 84.4

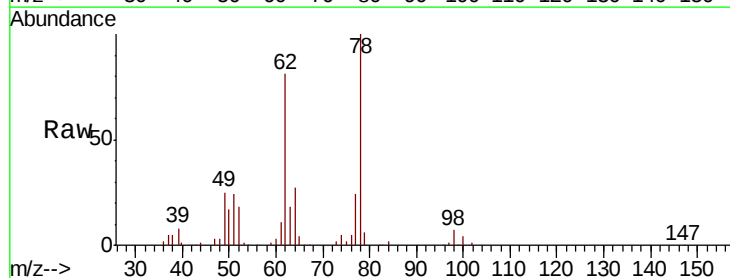


Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

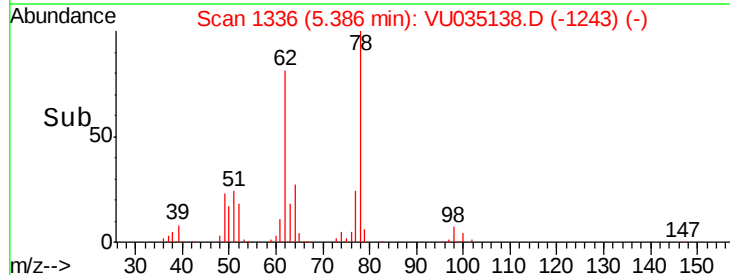
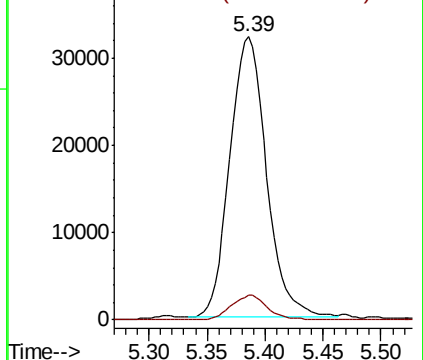


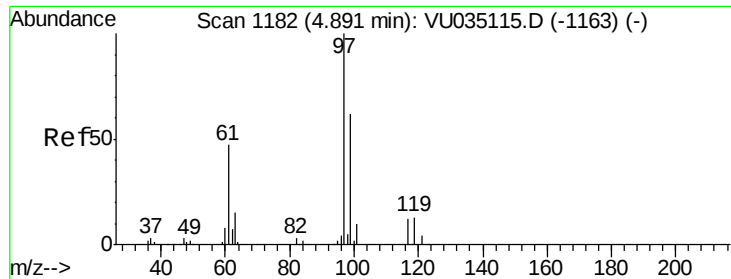
#27
1,2-Dichloroethane
Concen: 5.043 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Tgt Ion: 62 Resp: 70608
Ion Ratio Lower Upper
62 100
98 8.8 6.6 10.0



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.05 (97.75 to 98.75): VU0

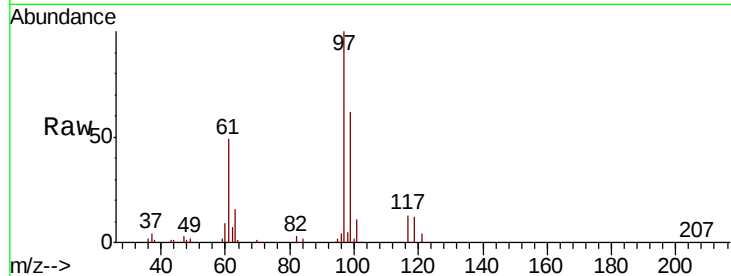




#29
 1,1,1-Trichloroethane
 Concen: 4.942 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	97	Resp	88938
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	50.2	36.2	54.4

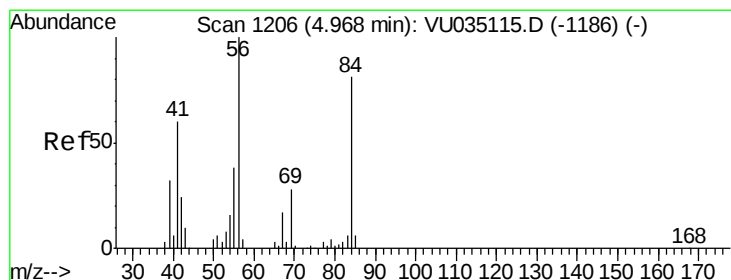
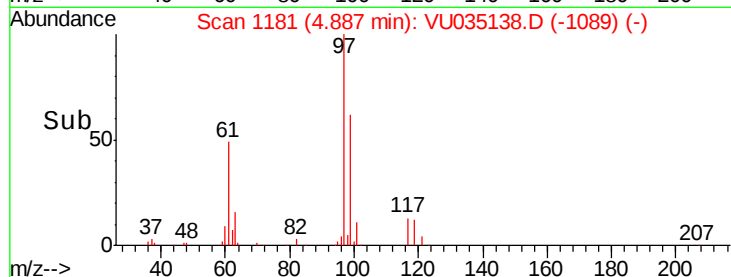
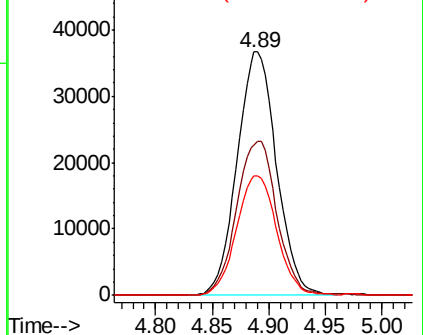


Abundance

Ion 96.95 (96.65 to 97.65): VU0

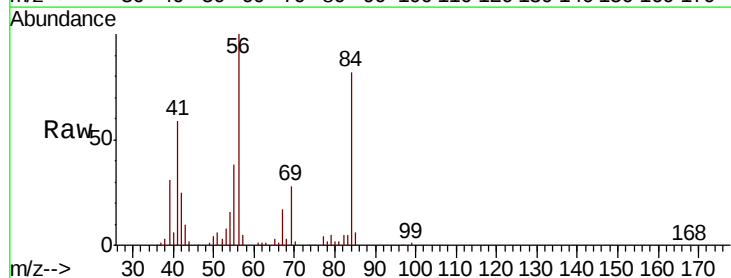
Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30
 Cyclohexane
 Concen: 4.432 ug/L
 RT: 4.97 min Scan# 1207
 Delta R.T. 0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Tgt Ion	56	Resp	87699
Ion	Ratio	Lower	Upper
56	100		
69	28.6	23.9	35.9
84	82.6	69.5	104.3

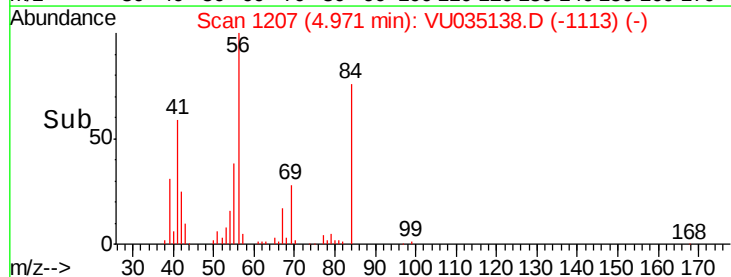
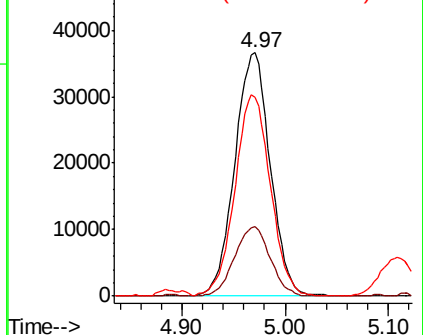


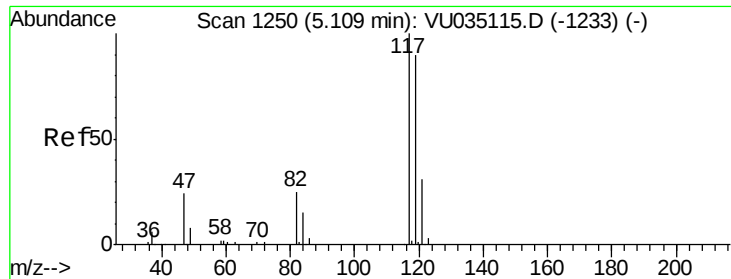
Abundance

Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

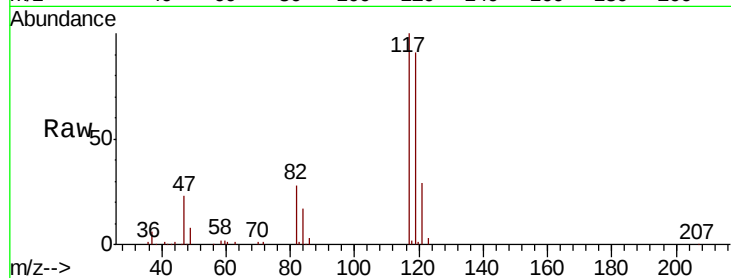




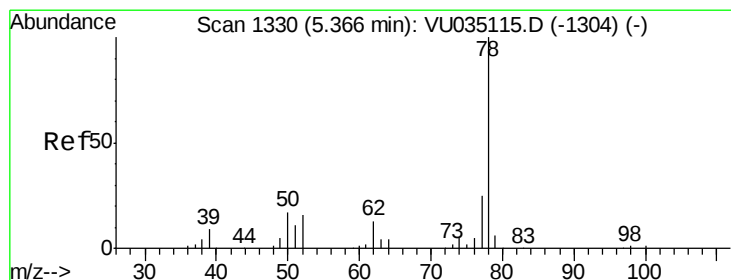
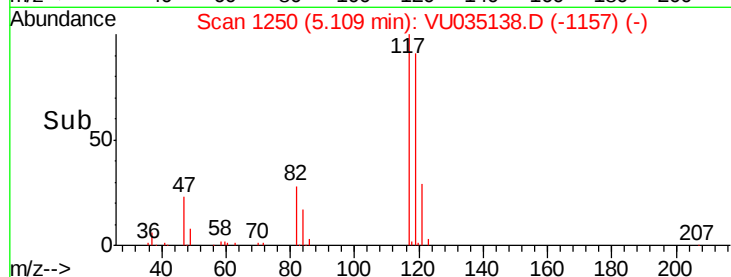
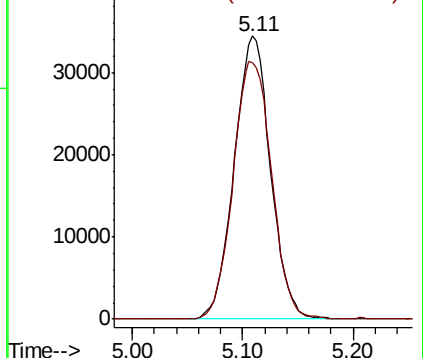
#31
Carbon tetrachloride
Concen: 5.020 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Instrument :
MSVOA_U
ClientSampleId :

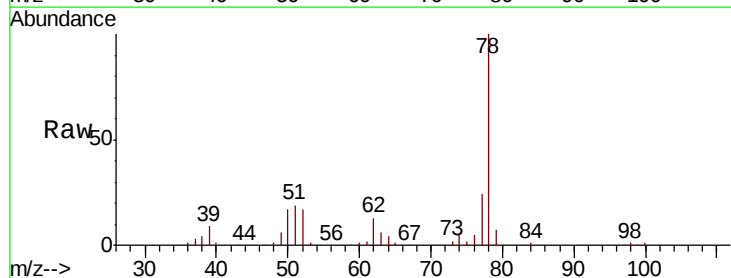
Tot Ion:117 Resp: 78342
Ion Ratio Lower Upper
117 100
119 96.5 77.5 116.3



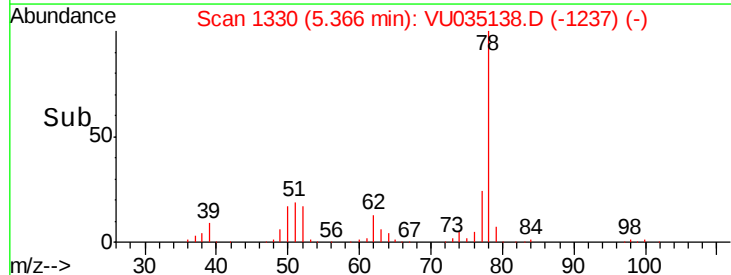
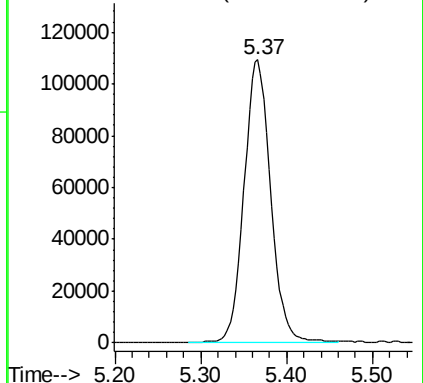
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

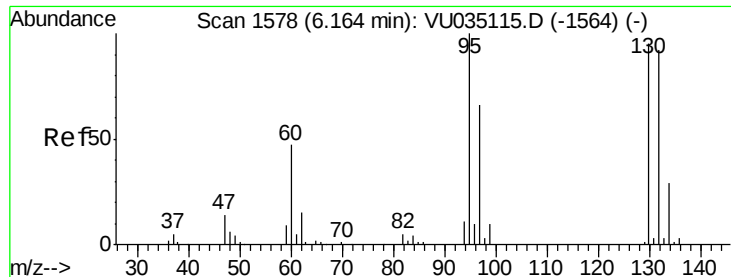


#33
Benzene
Concen: 4.900 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47
Tgt Ion: 78 Resp: 236515



Abundance Ion 78.10 (77.80 to 78.80): VU0

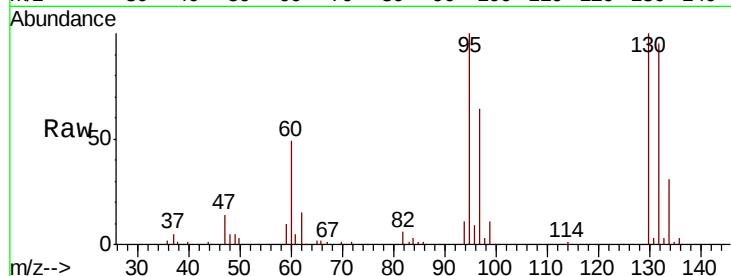




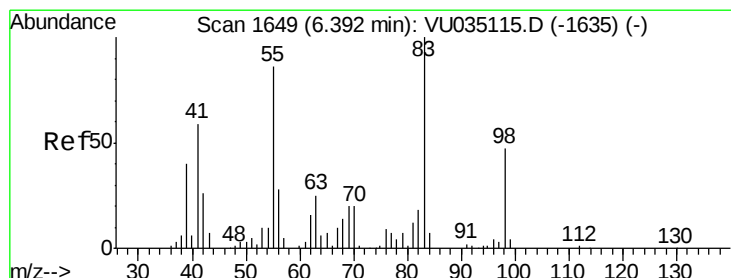
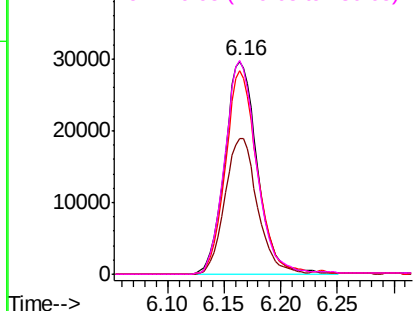
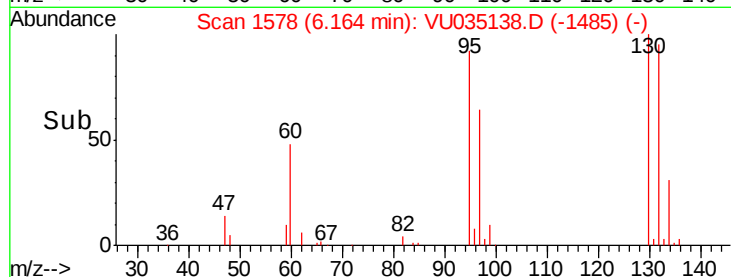
#34
 Trichloroethene
 Concen: 4.789 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 59613
 Ion Ratio Lower Upper
 95 100
 97 64.0 44.5 82.7
 132 95.9 66.6 123.8
 130 100.4 68.9 127.9

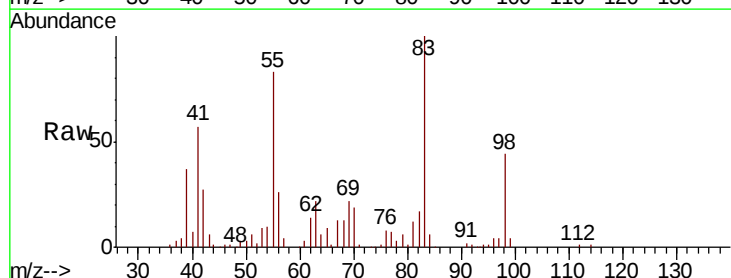


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

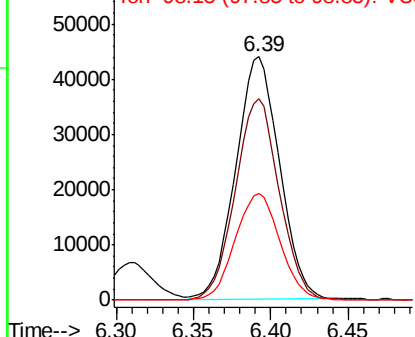
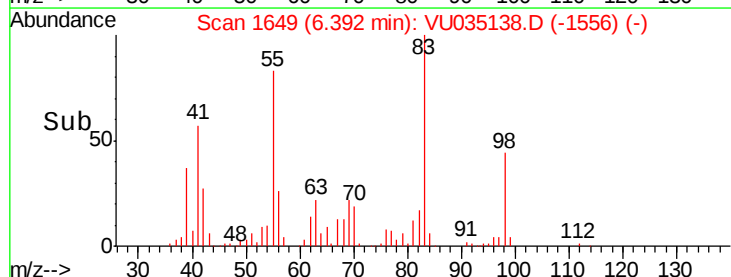


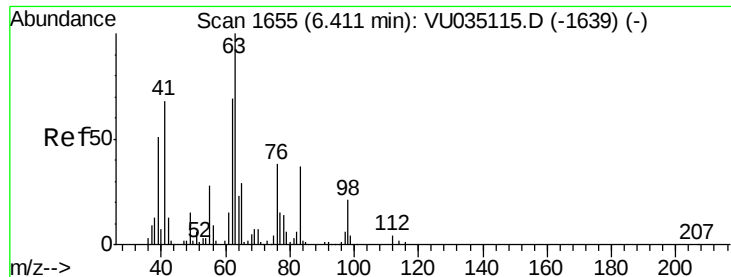
#35
 Methylcyclohexane
 Concen: 4.285 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Tgt Ion: 83 Resp: 86384
 Ion Ratio Lower Upper
 83 100
 55 83.5 62.6 94.0
 98 45.1 36.2 54.2



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.261 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

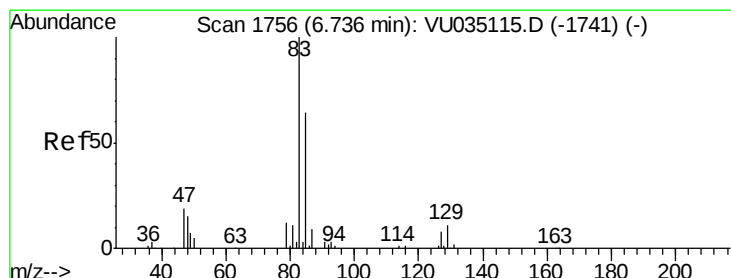
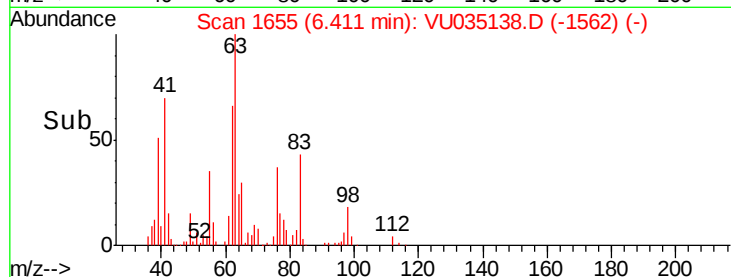
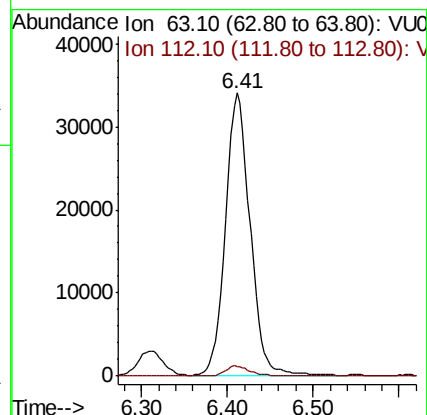
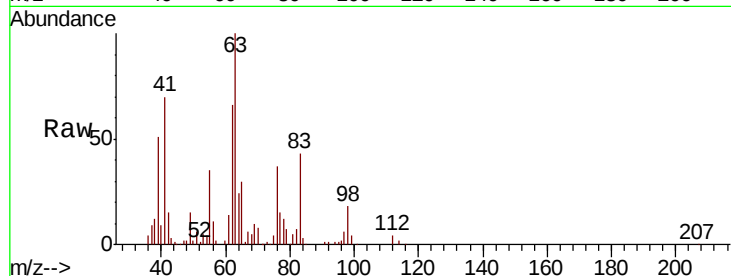
ClientSampleId :

Tot Ion: 63 Resp: 68497

Ion Ratio Lower Upper

63 100

112 3.5 3.1 4.7



#38

Bromodichloromethane

Concen: 5.022 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

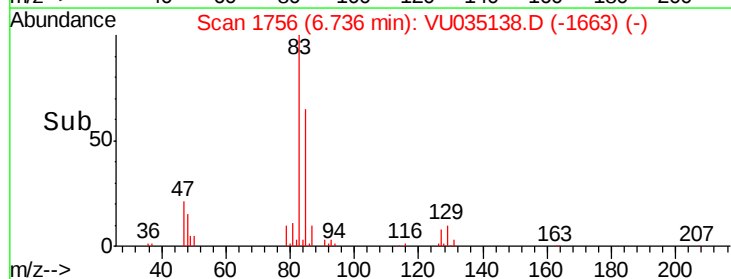
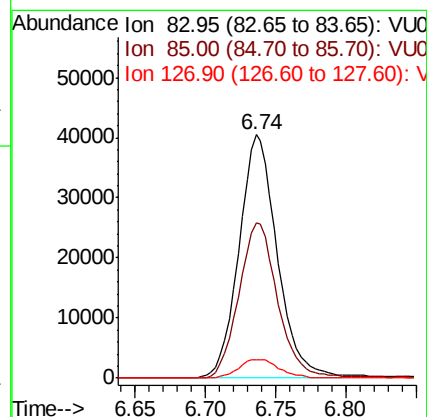
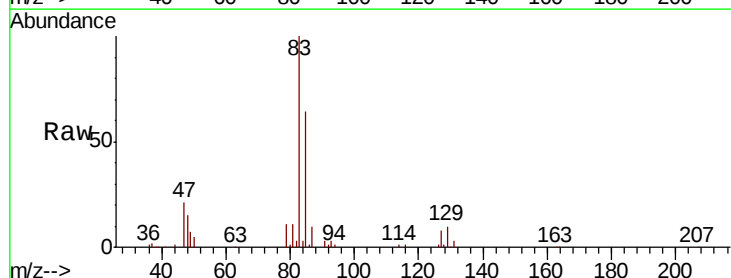
Tgt Ion: 83 Resp: 76656

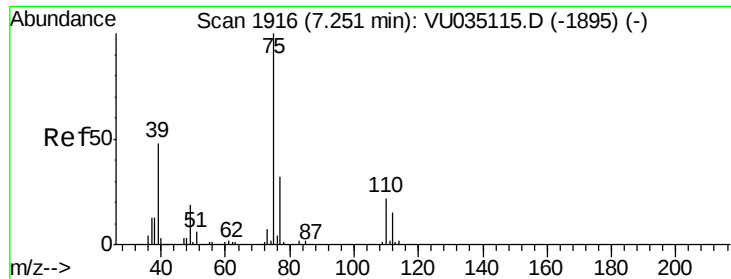
Ion Ratio Lower Upper

83 100

85 64.0 44.0 81.8

127 7.7 7.0 10.4



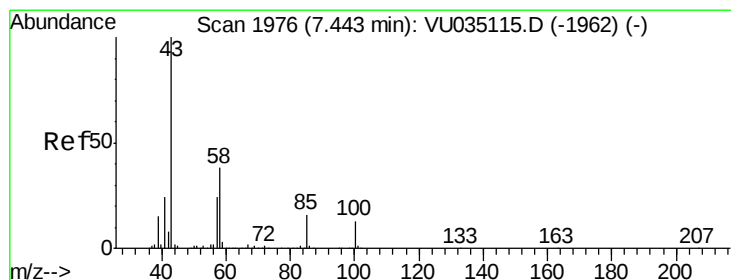
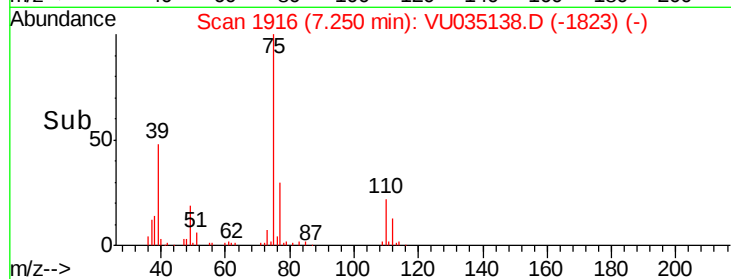
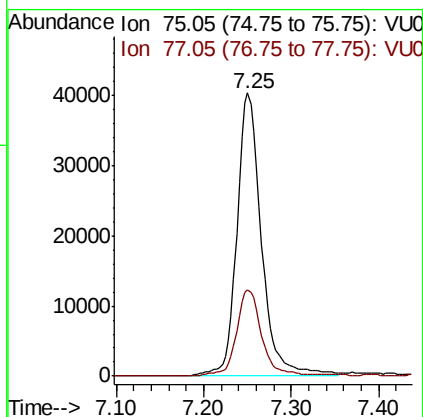
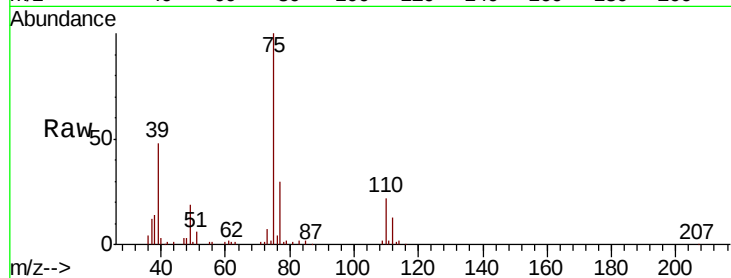


#39

cis-1,3-Dichloropropene
Concen: 4.480 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Instrument :
MSVOA_U
ClientSampleId :

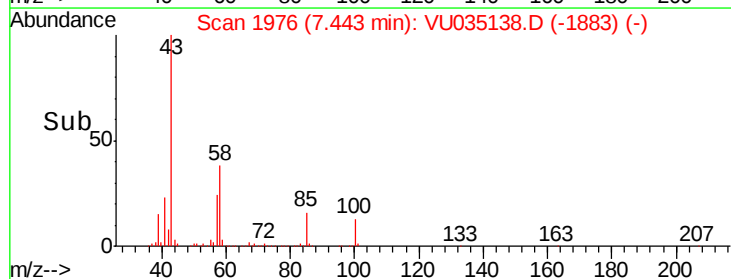
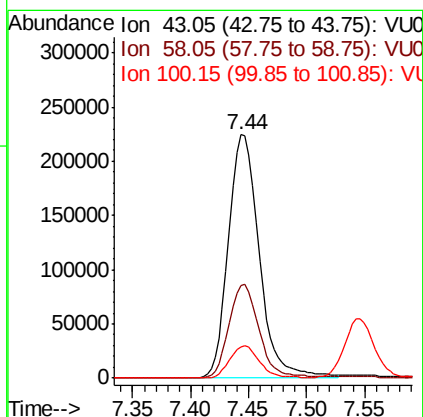
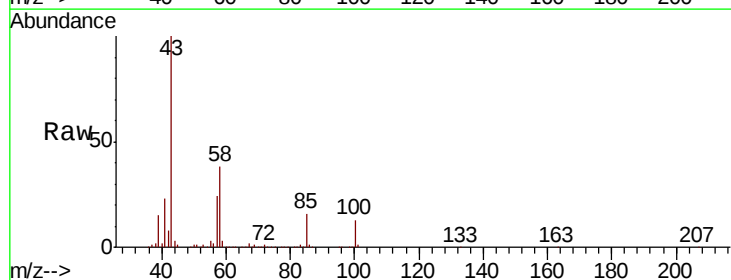
Tot Ion: 75 Resp: 79014
Ion Ratio Lower Upper
75 100
77 30.4 22.1 41.1

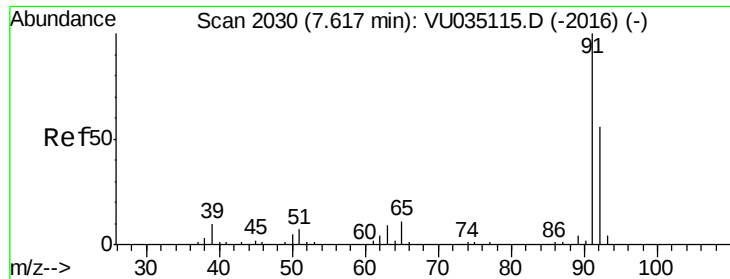


#40

4-Methyl-2-pentanone
Concen: 50.573 ug/L
RT: 7.44 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Tgt Ion: 43 Resp: 414428
Ion Ratio Lower Upper
43 100
58 37.9 32.4 48.6
100 12.9 11.9 17.9





#42

Toluene

Concen: 5.121 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

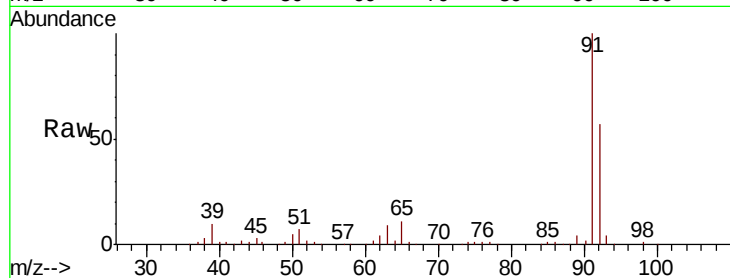
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 258001

Ion Ratio Lower Upper

91 100

92 57.2 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU035115.D (-2016) (-)

Ion 92.15 (91.85 to 92.85): VU035115.D (-2016) (-)

7.62

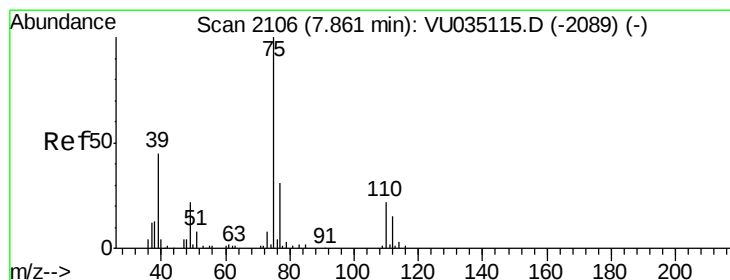
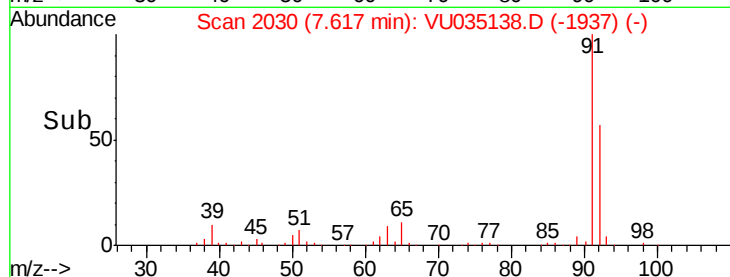
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.591 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU035138.D

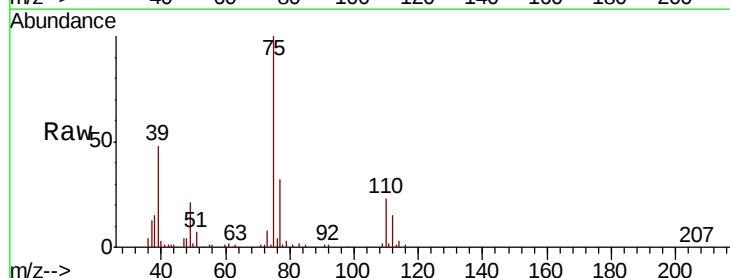
Acq: 12 Oct 2019 11:47

Tgt Ion: 75 Resp: 62719

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU035115.D (-2089) (-)

Ion 77.05 (76.75 to 77.75): VU035115.D (-2089) (-)

7.86

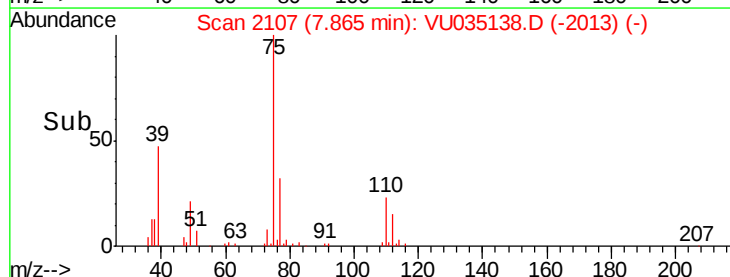
30000

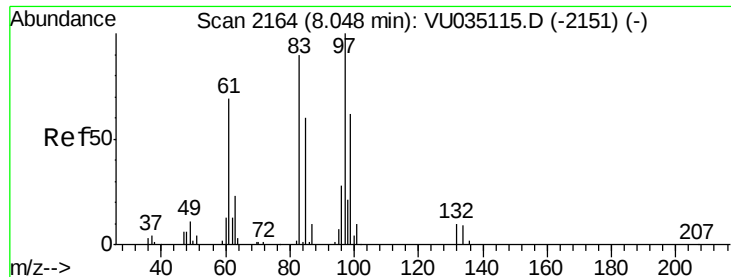
20000

10000

0

Time-->

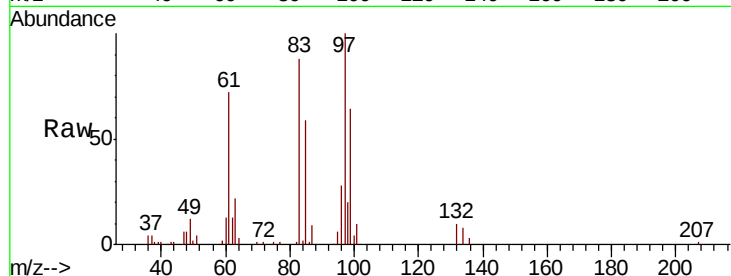




#45
 1,1,2-Trichloroethane
 Concen: 5.167 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	44669
Ion	Ratio	Lower	Upper
97	100		
99	64.3	42.3	78.5
83	88.2	58.0	107.6
85	59.0	37.8	70.2



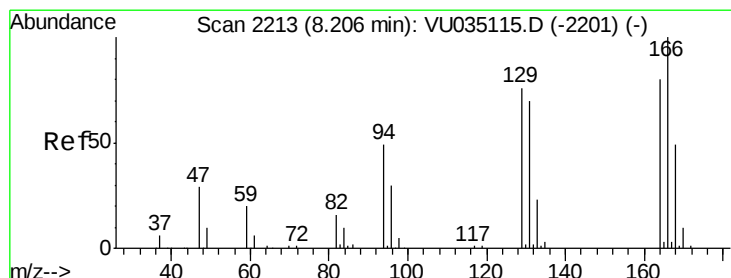
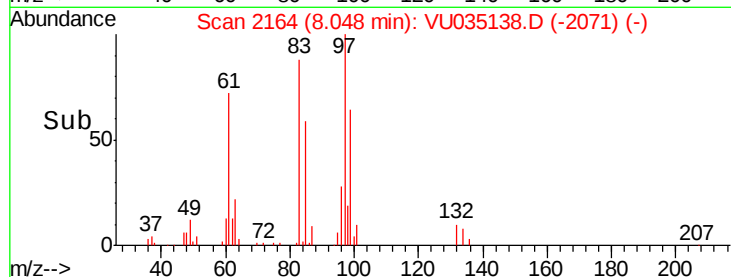
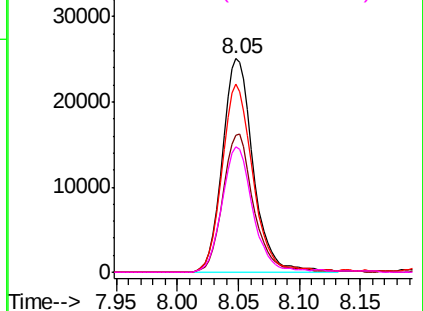
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

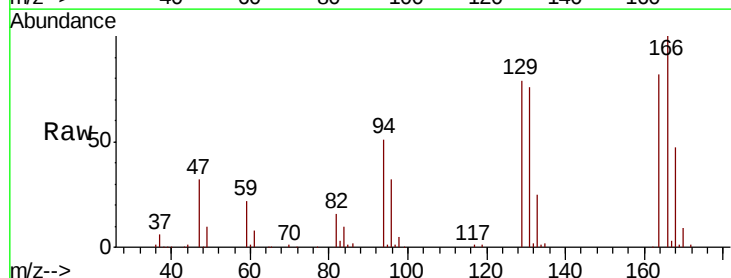
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 4.682 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Tgt Ion:	164	Resp:	47175
Ion	Ratio	Lower	Upper
164	100		
129	96.7	68.5	127.1
131	92.5	67.3	124.9
166	122.3	93.1	172.9



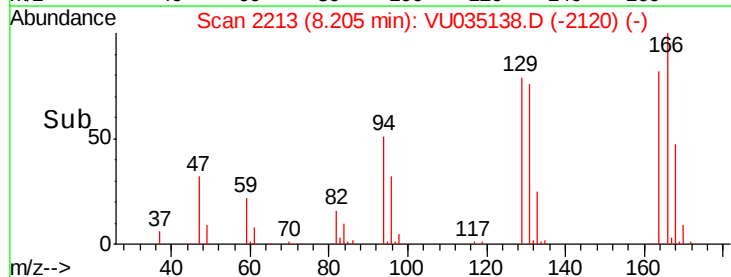
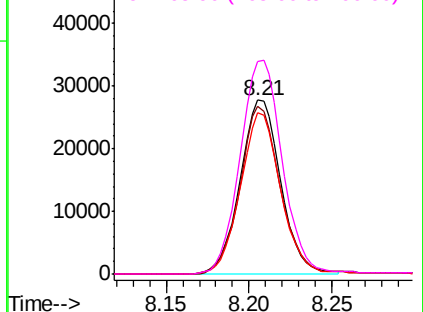
Abundance

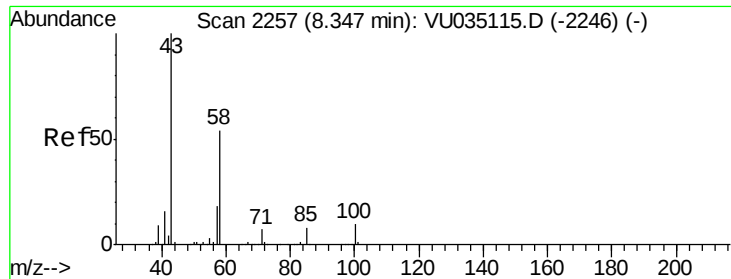
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

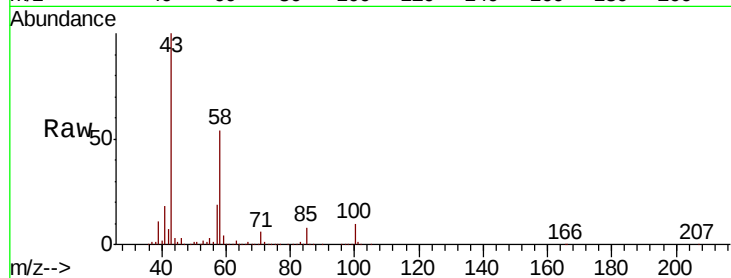




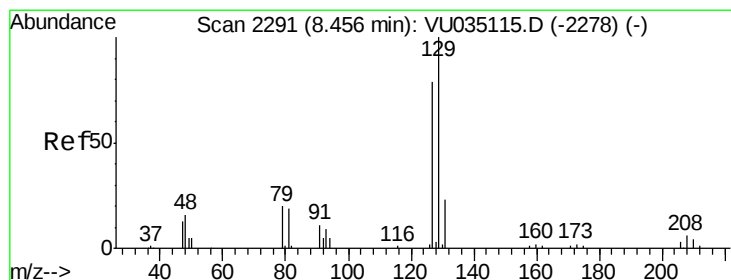
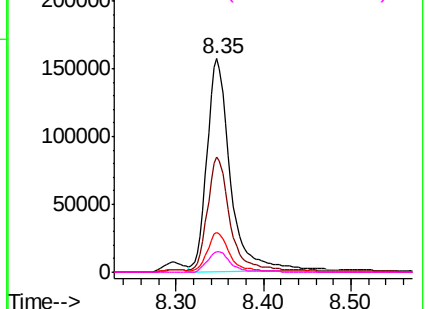
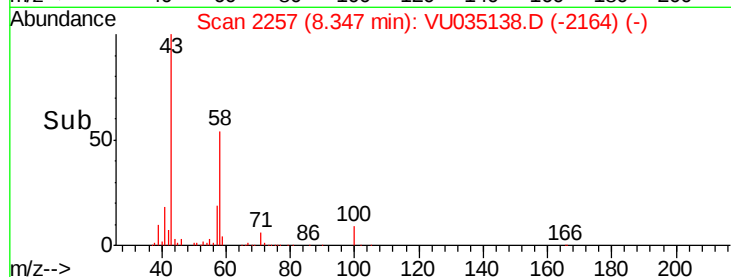
#48
2-Hexanone
Concen: 51.732 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	290656
Ion	Ratio	Lower	Upper
43	100		
58	51.6	44.1	66.1
57	17.3	15.8	23.8
100	9.6	9.4	14.2

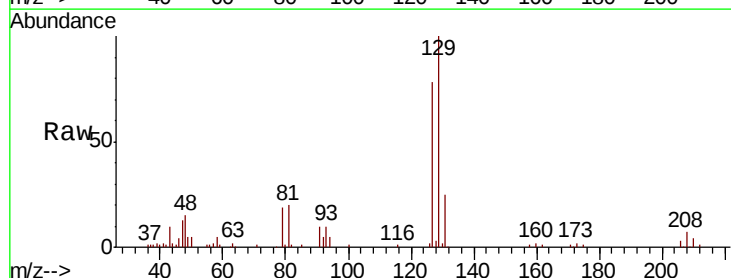


Abundance Ion 43.05 (42.75 to 43.75): VU035115.D (-2246) (-)
Ion 58.05 (57.75 to 58.75): VU035115.D (-2246) (-)
Ion 57.20 (56.90 to 57.90): VU035115.D (-2246) (-)
Ion 100.15 (99.85 to 100.85): VU035115.D (-2246) (-)

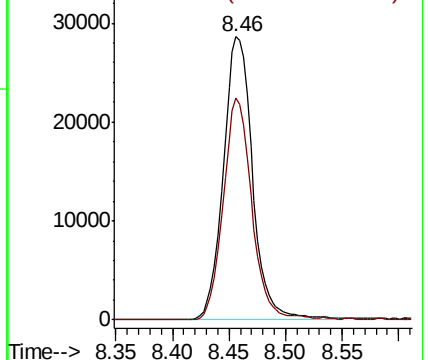
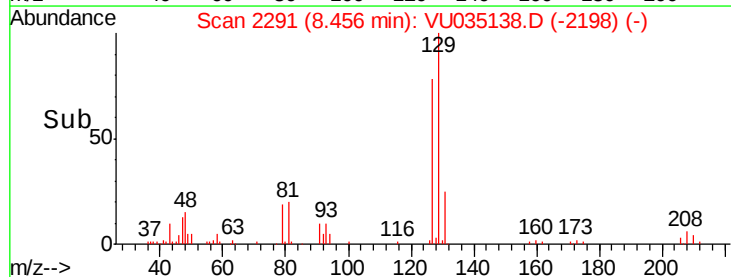


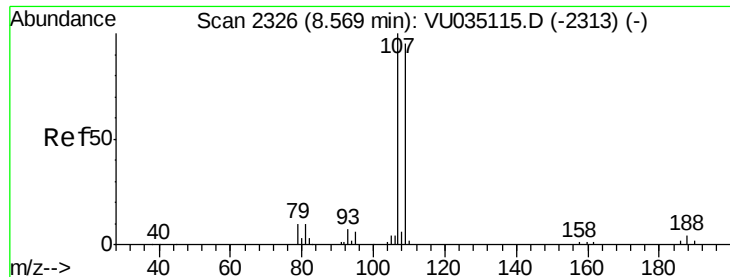
#49
Dibromochloromethane
Concen: 5.174 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Tgt Ion:	129	Resp:	51700
Ion	Ratio	Lower	Upper
129	100		
127	78.4	51.9	96.5



Abundance Ion 128.95 (128.65 to 129.65): VU035115.D (-2278) (-)
Ion 126.90 (126.60 to 127.60): VU035115.D (-2278) (-)

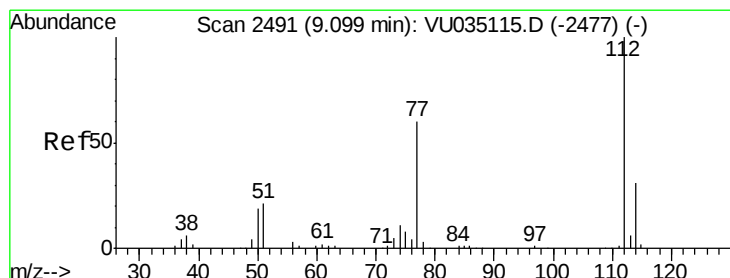
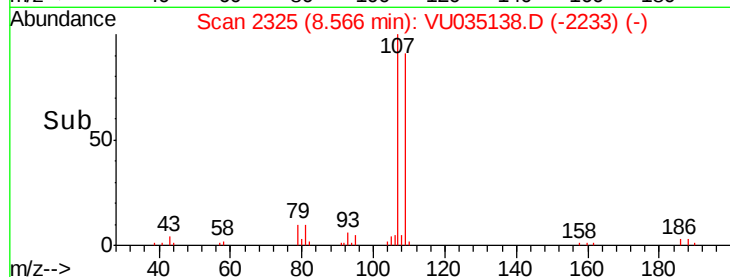
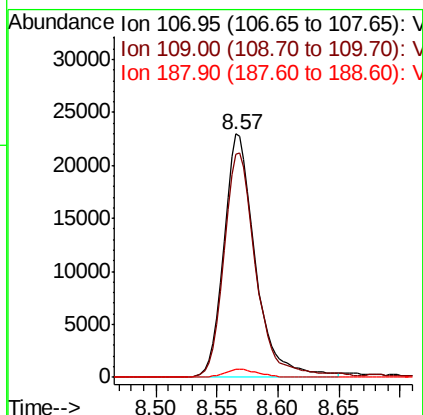
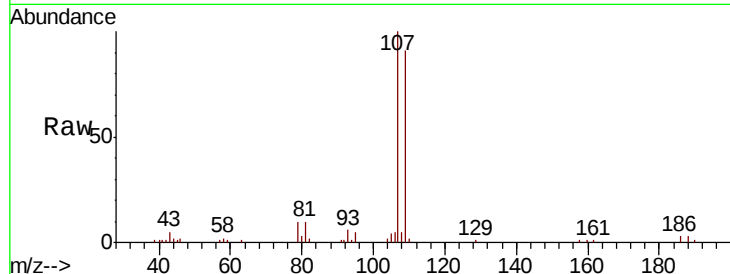




#50
1,2-Dibromoethane
Concen: 5.049 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

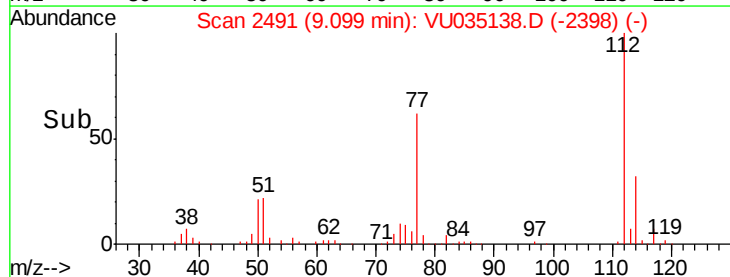
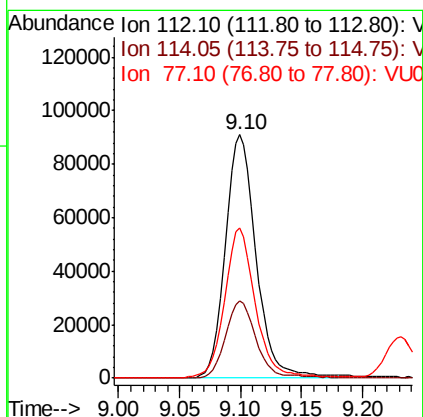
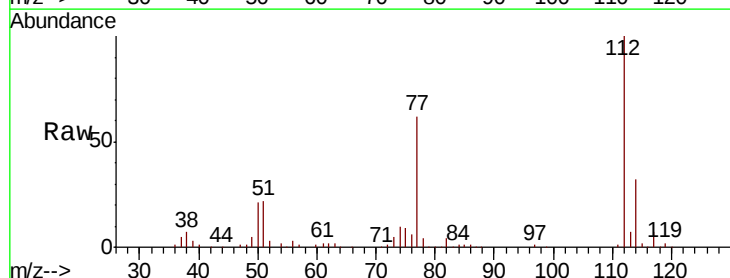
Instrument :
MSVOA_U
ClientSampleId :

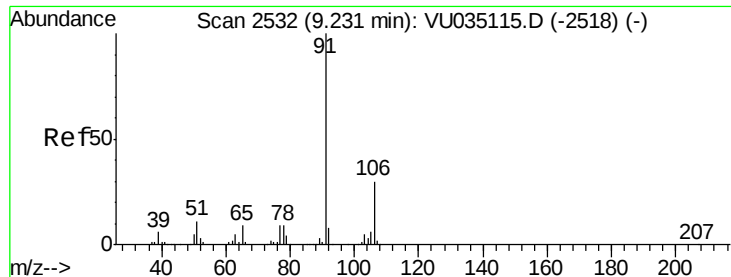
Tot Ion:107 Resp: 41717
Ion Ratio Lower Upper
107 100
109 91.4 64.8 120.4
188 3.2 3.0 4.6



#51
Chlorobenzene
Concen: 4.925 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Tgt Ion:112 Resp: 160813
Ion Ratio Lower Upper
112 100
114 31.6 22.1 41.1
77 61.9 46.9 70.3





#52

Ethylbenzene

Concen: 4.786 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

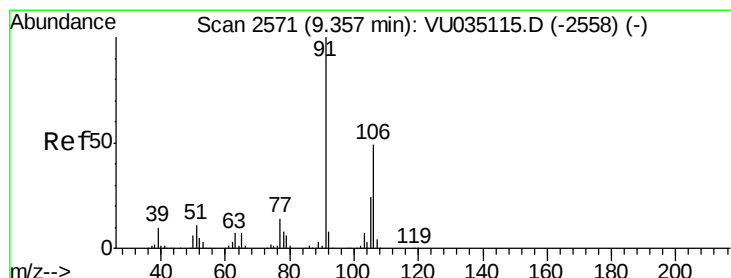
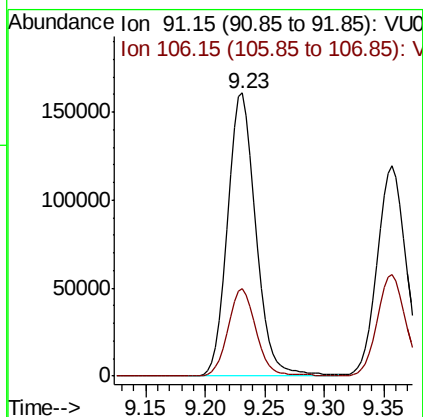
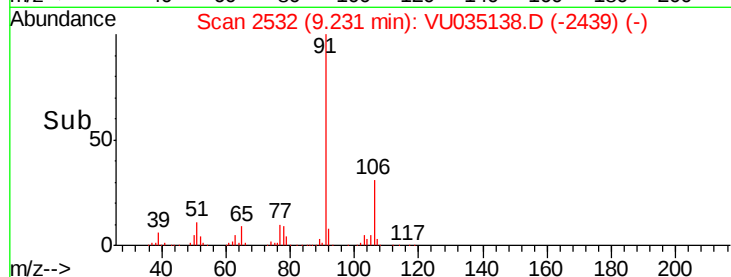
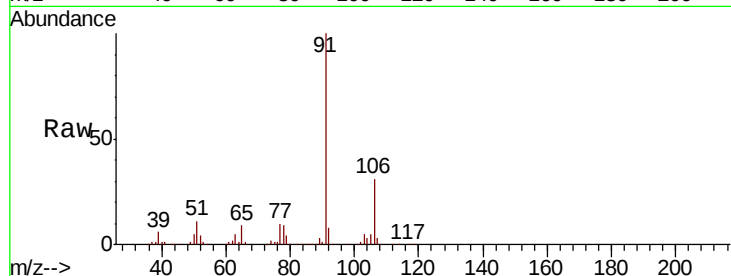
ClientSampleId :

Tot Ion: 91 Resp: 266335

Ion Ratio Lower Upper

91 100

106 30.9 21.6 40.2



#53

m,p-Xylene

Concen: 4.753 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU035138.D

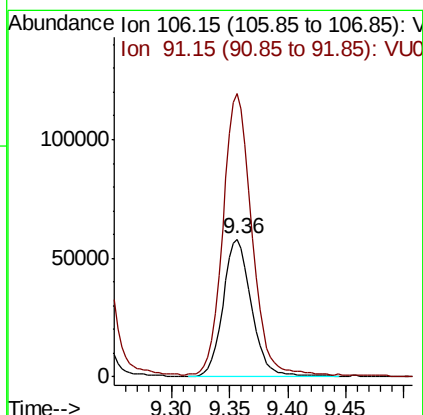
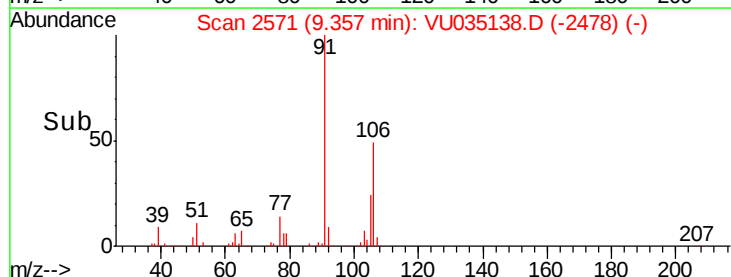
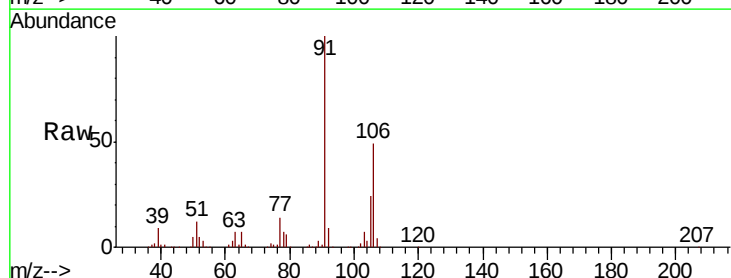
Acq: 12 Oct 2019 11:47

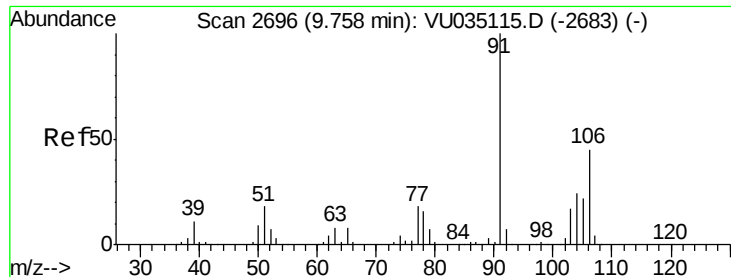
Tgt Ion: 106 Resp: 97701

Ion Ratio Lower Upper

106 100

91 205.9 147.6 274.0

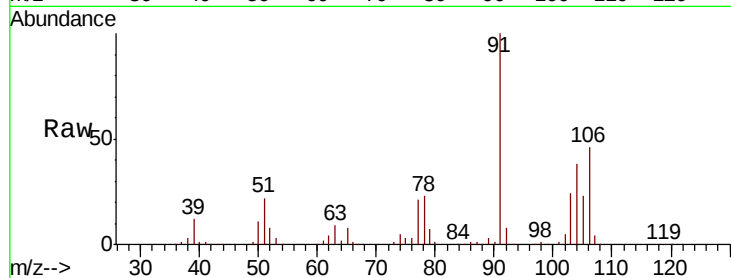




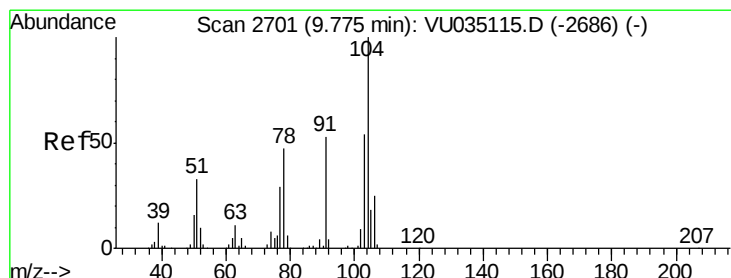
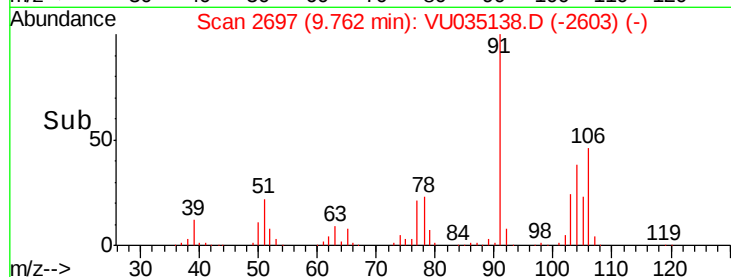
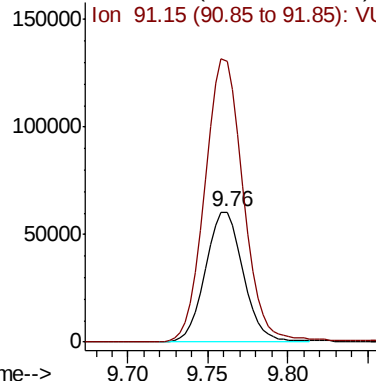
#54
o-Xylene
Concen: 4.842 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 97339
Ion Ratio Lower Upper
106 100
91 216.2 148.5 275.7

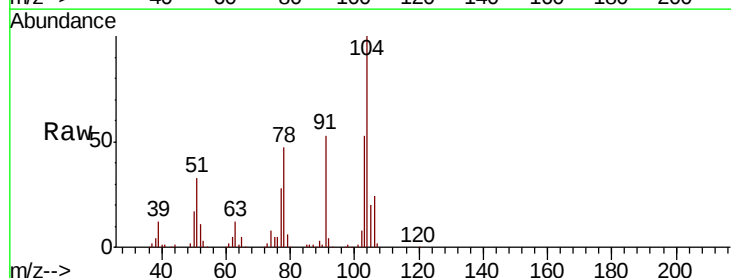


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

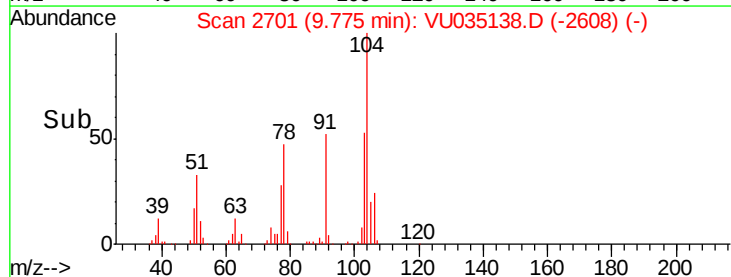
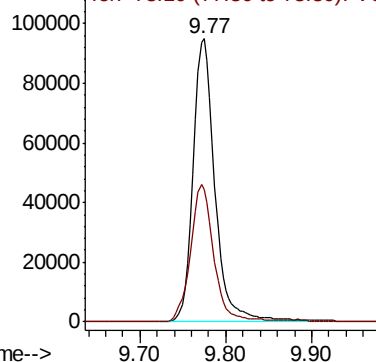


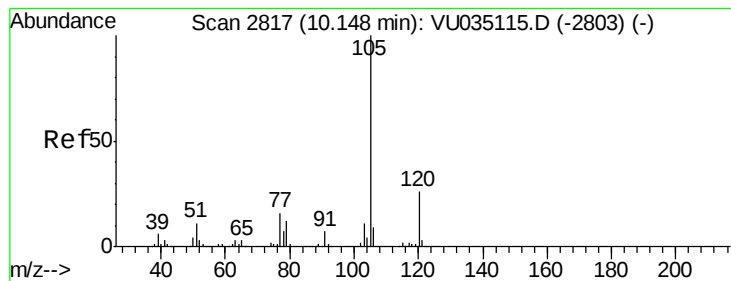
#55
Styrene
Concen: 5.172 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU035138.D
Acq: 12 Oct 2019 11:47

Tgt Ion:104 Resp: 168370
Ion Ratio Lower Upper
104 100
78 46.9 32.8 60.8



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.867 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

ClientSampleId :

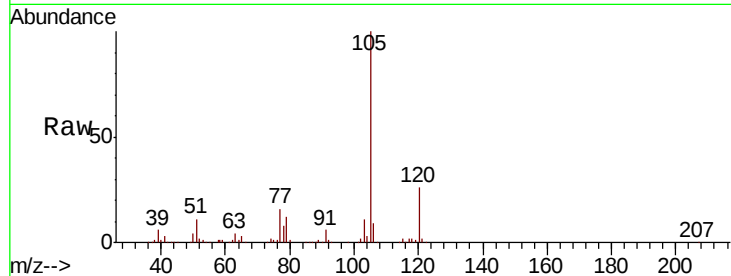
Tot Ion:105 Resp: 260654

Ion Ratio Lower Upper

105 100

120 25.5 21.3 31.9

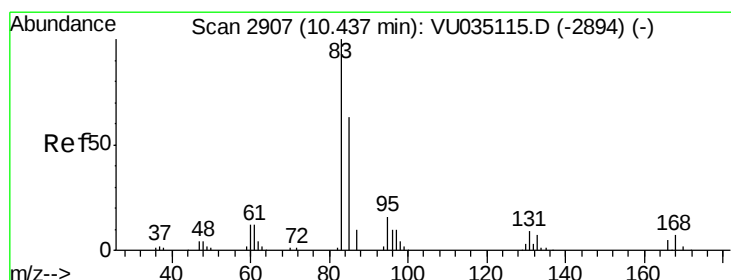
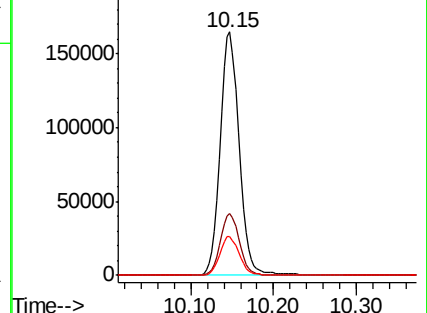
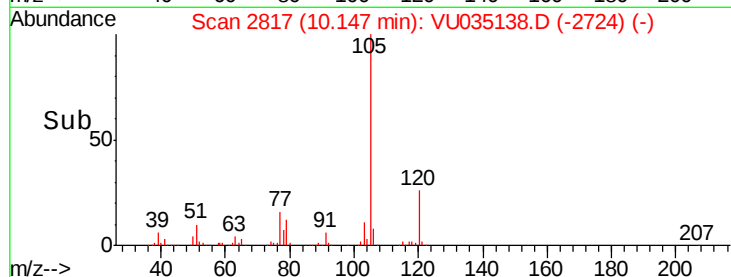
77 16.4 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.181 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

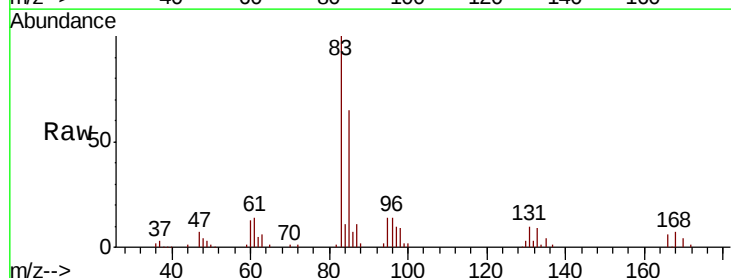
Tgt Ion: 83 Resp: 60917

Ion Ratio Lower Upper

83 100

85 65.2 44.6 82.8

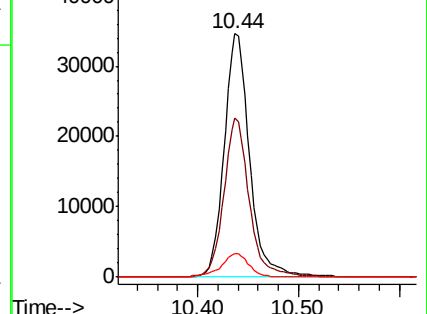
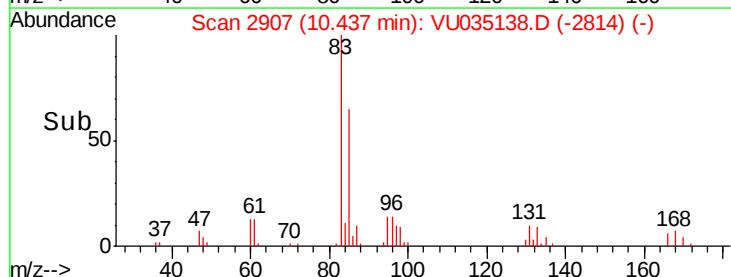
131 9.7 7.4 11.2

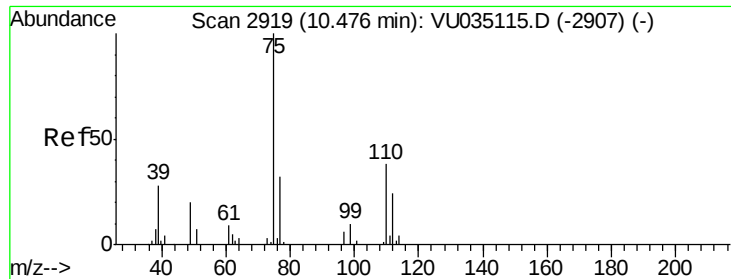


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.084 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

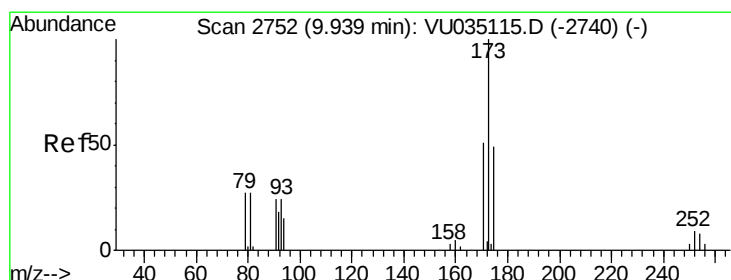
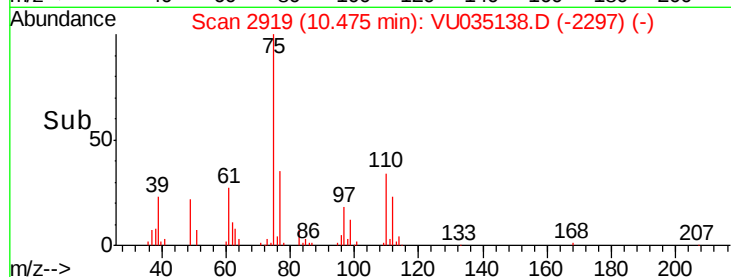
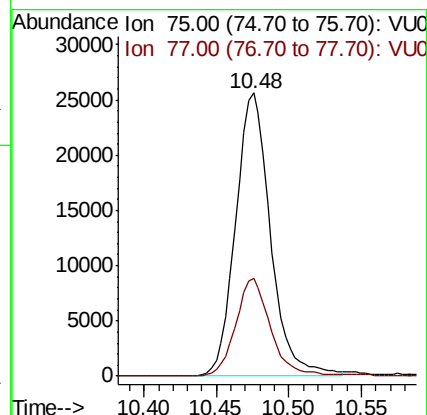
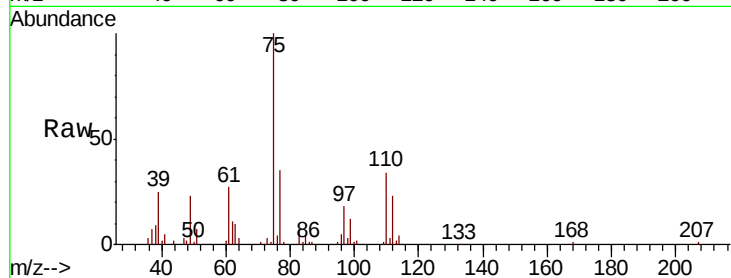
ClientSampleId :

Tot Ion: 75 Resp: 42850

Ion Ratio Lower Upper

75 100

77 34.3 26.5 39.7



#61

Bromoform

Concen: 5.120 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

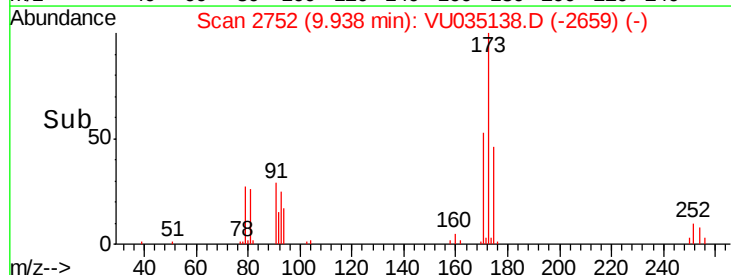
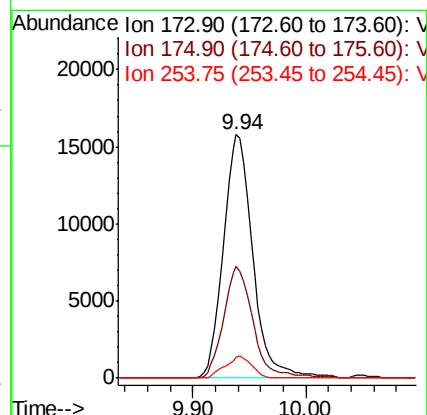
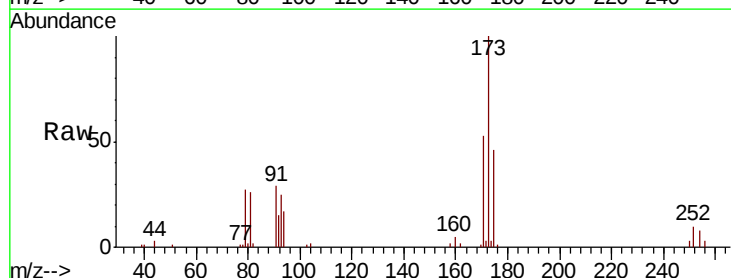
Tgt Ion: 173 Resp: 28489

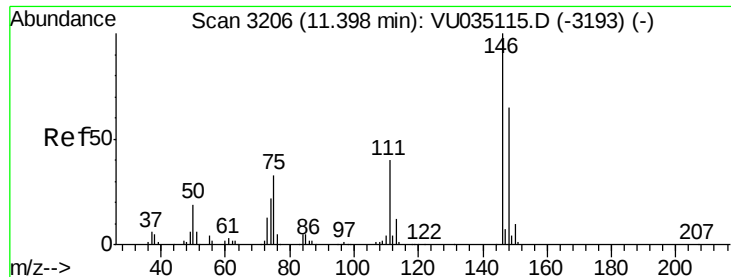
Ion Ratio Lower Upper

173 100

175 45.8 37.2 55.8

254 8.1 6.6 9.8





#62

1,3-Dichlorobenzene

Concen: 4.942 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

ClientSampled :

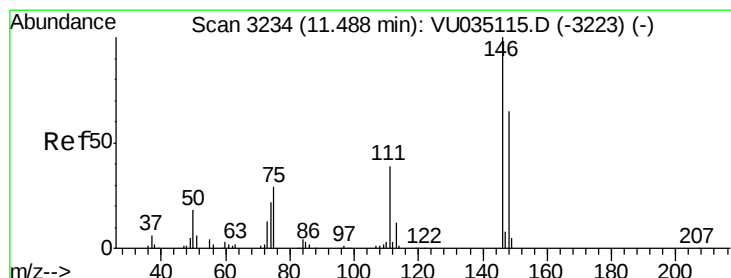
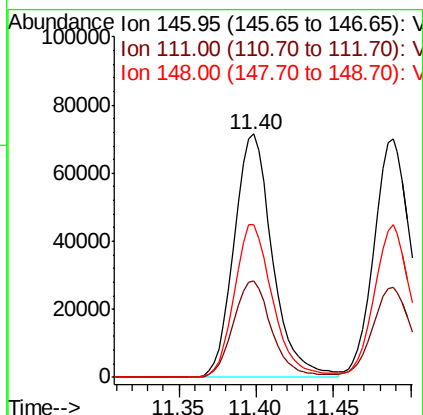
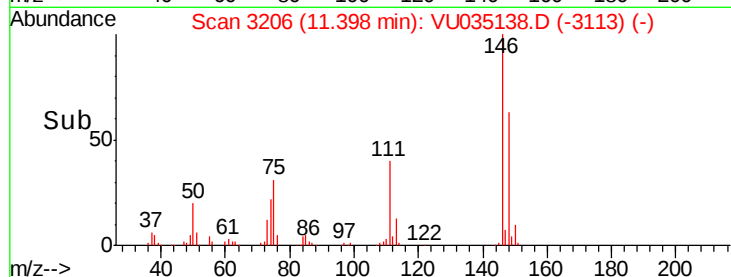
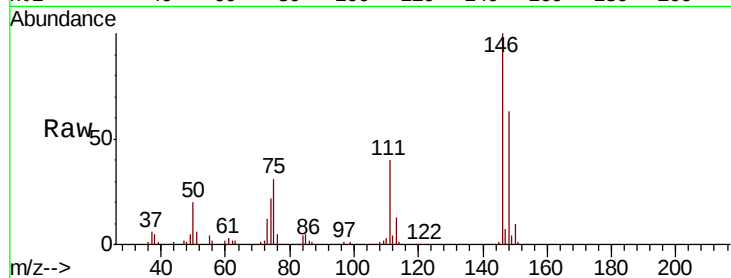
Tot Ion:146 Resp: 123494

Ion Ratio Lower Upper

146 100

111 39.6 28.6 53.2

148 62.8 45.0 83.6



#63

1,4-Dichlorobenzene

Concen: 4.910 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

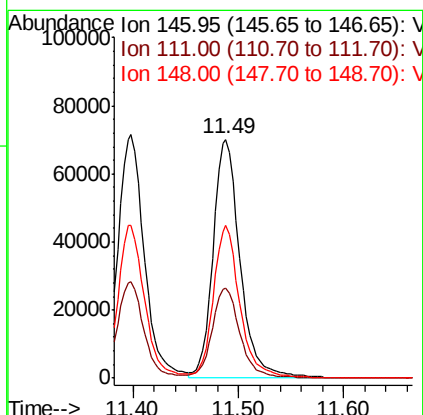
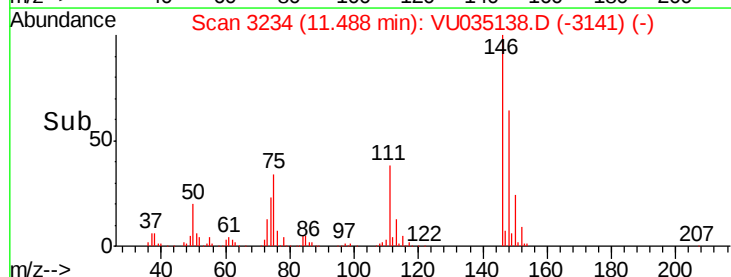
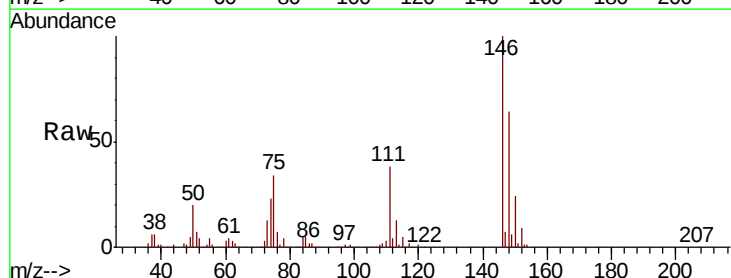
Tgt Ion:146 Resp: 123830

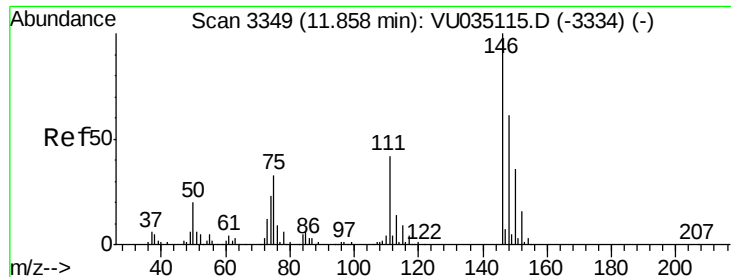
Ion Ratio Lower Upper

146 100

111 37.6 27.9 51.7

148 63.8 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 4.897 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

ClientSampleId :

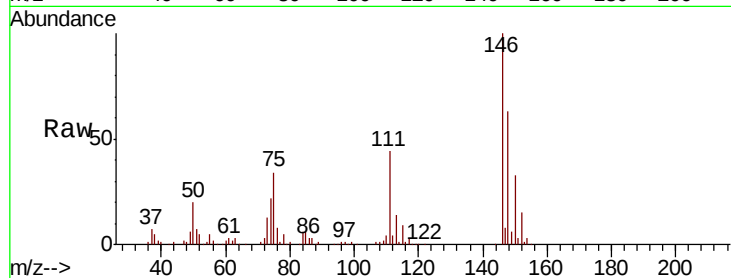
Tot Ion:146 Resp: 118091

Ion Ratio Lower Upper

146 100

111 44.3 34.2 51.4

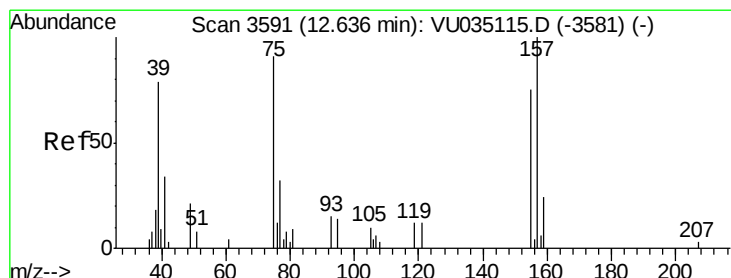
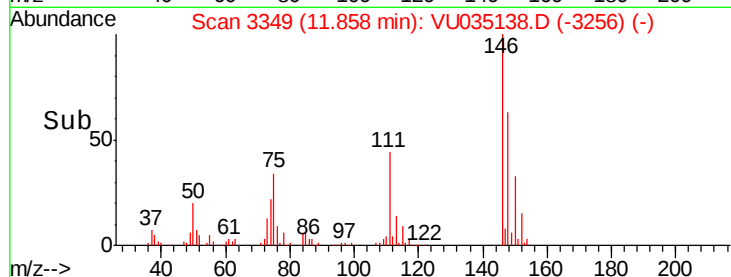
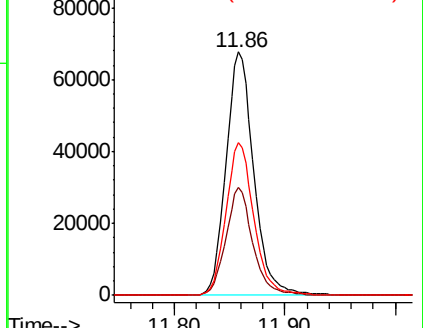
148 62.7 52.0 78.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.265 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

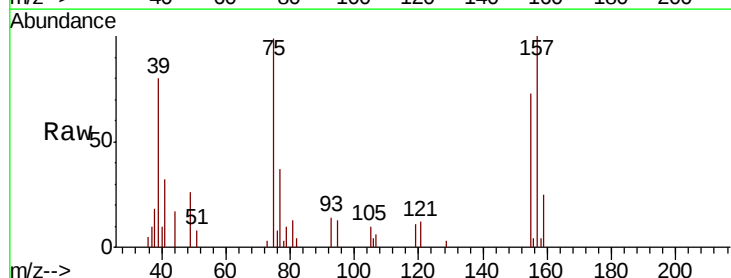
Tgt Ion: 75 Resp: 8069

Ion Ratio Lower Upper

75 100

155 74.3 67.1 100.7

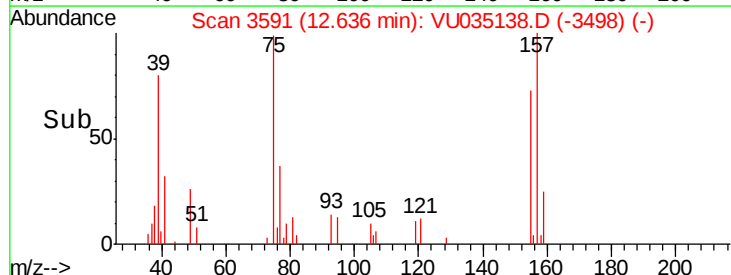
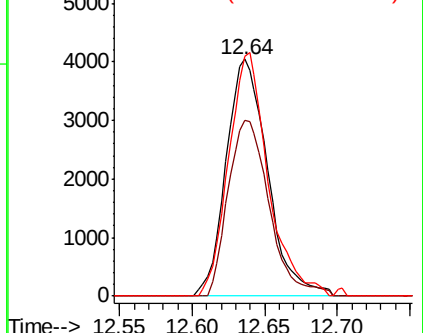
157 101.1 83.7 125.5

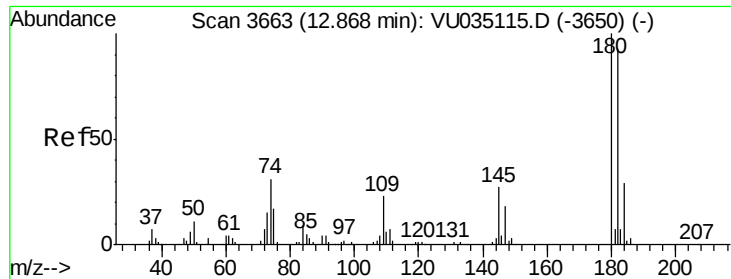


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

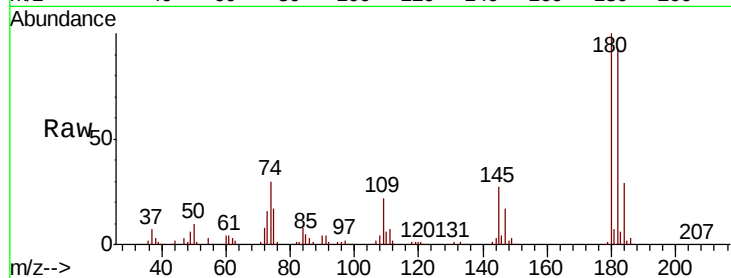




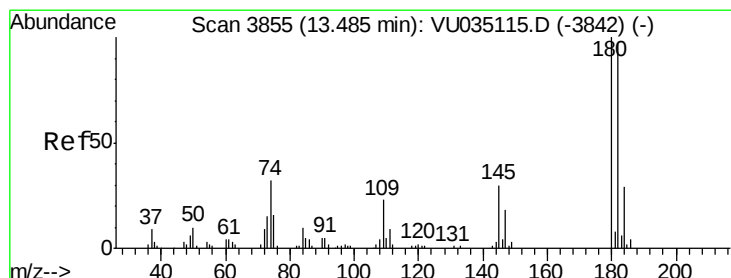
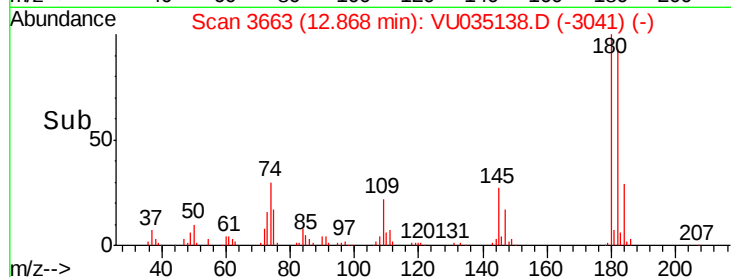
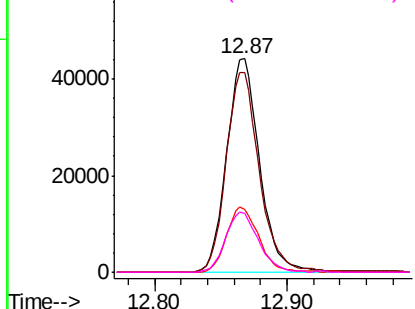
#67
 1,3,5-Trichlorobenzene
 Concen: 4.514 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 76379
 Ion Ratio Lower Upper
 180 100
 182 94.2 76.0 114.0
 184 29.8 24.2 36.2
 145 28.1 24.6 37.0

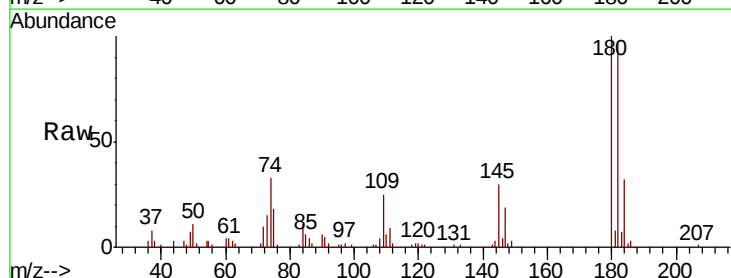


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

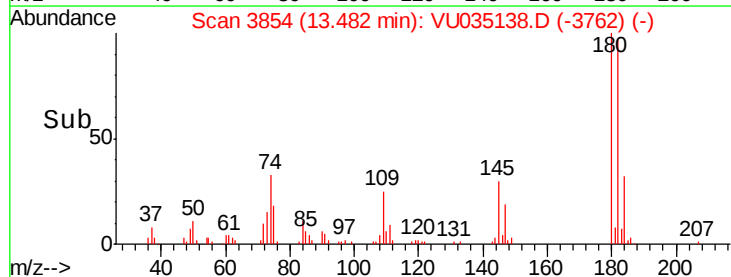
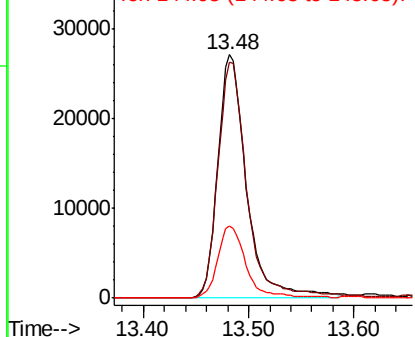


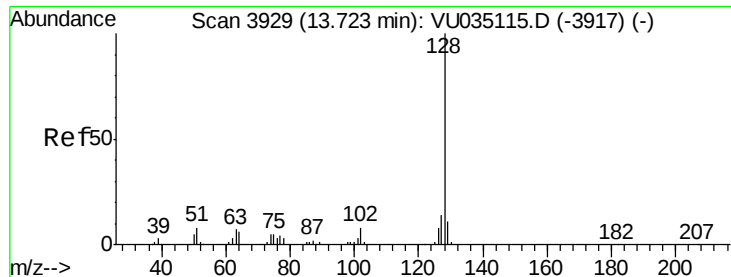
#68
 1,2,4-trichlorobenzene
 Concen: 4.048 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU035138.D
 Acq: 12 Oct 2019 11:47

Tgt Ion:180 Resp: 51155
 Ion Ratio Lower Upper
 180 100
 182 96.9 77.3 115.9
 145 28.9 24.5 36.7



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 3.449 ug/L

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

Instrument :

MSVOA_U

ClientSampleId :

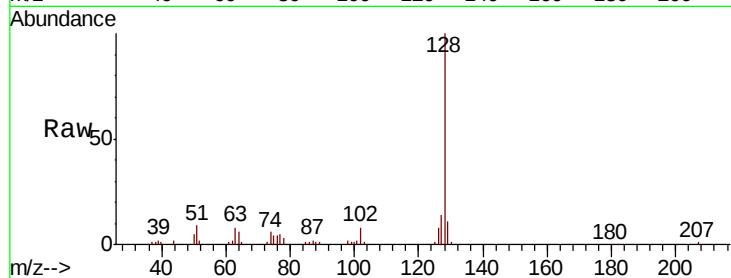
Tot Ion:128 Resp: 67780

Ion Ratio Lower Upper

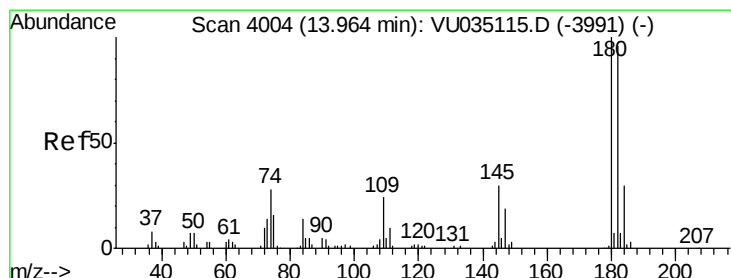
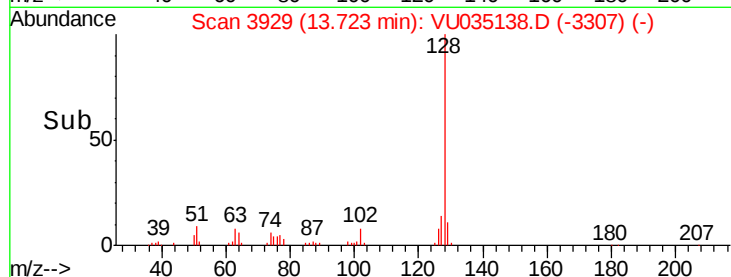
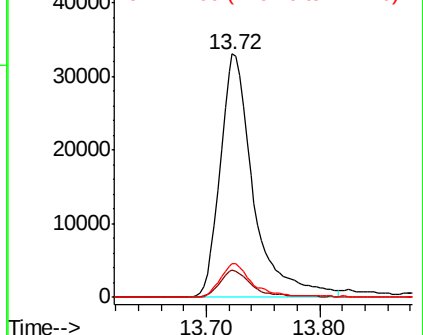
128 100

129 10.8 8.7 13.1

127 13.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.345 ug/L

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU035138.D

Acq: 12 Oct 2019 11:47

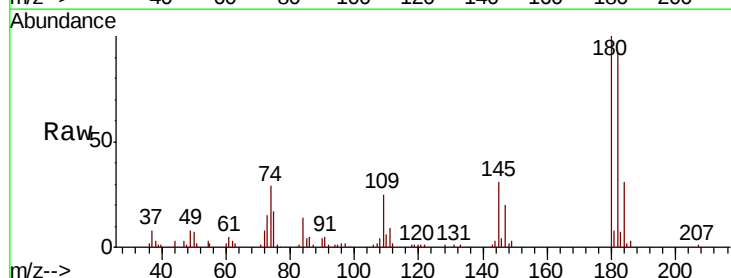
Tgt Ion:180 Resp: 53401

Ion Ratio Lower Upper

180 100

182 94.5 77.0 115.4

145 30.8 25.9 38.9



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

