

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090119\
 Data File : VU034116.D
 Acq On : 31 Aug 2019 11:52
 Operator : JC/SP
 Sample : VSTD00102
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 31 14:51:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR090119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 31 14:48:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	341055	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	324760	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	173971	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	22826	0.80	ug/L	0.00
7) Chloroethane-d5	1.68	69	18417	0.77	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	43038	0.78	ug/L	0.00
20) 2-Butanone-d5	4.19	46	51898	7.60	ug/L	0.00
24) Chloroform-d	4.63	84	40267	0.81	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	20202	0.77	ug/L	0.00
32) Benzene-d6	5.32	84	83503	0.93	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	25943	0.91	ug/L	0.00
41) Toluene-d8	7.55	98	76348	0.97	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	8307	0.78	ug/L	0.00
46) 2-Hexanone-d5	8.30	63	36915	8.47	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	19018	0.82	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	30073	0.94	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	32407	0.833	ug/L 98
3) Chloromethane	1.32	50	31620	0.826	ug/L 98
5) Vinyl chloride	1.40	62	33126	0.822	ug/L 97
6) Bromomethane	1.62	94	15250	0.828	ug/L 92
8) Chloroethane	1.69	64	20251	0.814	ug/L 96
9) Trichlorofluoromethane	1.88	101	36572	0.803	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	21232	0.816	ug/L 97
12) 1,1-Dichloroethene	2.28	96	21256	0.838	ug/L 90
13) Acetone	2.32	43	34980	6.656	ug/L 98
14) Carbon disulfide	2.47	76	72153	0.810	ug/L 97
15) Methyl Acetate	2.61	43	10017	0.693	ug/L 95
16) Methylene chloride	2.69	84	24890	0.837	ug/L 98
17) Methyl tert-butyl Ether	2.99	73	52613	0.803	ug/L 97
18) trans-1,2-Dichloroethene	2.96	96	23048	0.842	ug/L 95
19) 1,1-Dichloroethane	3.42	63	44226	0.826	ug/L 99
21) 2-Butanone	4.27	43	53554	7.015	ug/L 97
22) cis-1,2-Dichloroethene	4.20	96	25734	0.897	ug/L 95
23) Bromochloromethane	4.53	128	10818	0.840	ug/L 99
25) Chloroform	4.65	83	48485	0.875	ug/L 91
27) 1,2-Dichloroethane	5.39	62	24370	0.751	ug/L 98
29) 1,1,1-Trichloroethane	4.89	97	34490	0.879	ug/L 98
30) Cyclohexane	4.97	56	39600	0.967	ug/L 99
31) Carbon tetrachloride	5.11	117	31180	0.895	ug/L 100
33) Benzene	5.37	78	97037	0.956	ug/L 100
34) Trichloroethene	6.17	95	24320	0.919	ug/L 95
35) Methylcyclohexane	6.39	83	39025	0.959	ug/L 97
37) 1,2-Dichloropropane	6.41	63	24282	0.878	ug/L 98
38) Bromodichloromethane	6.74	83	28967	0.863	ug/L 97
39) cis-1,3-Dichloropropene	7.25	75	33350	0.915	ug/L 98
40) 4-Methyl-2-pentanone	7.45	43	132147	8.100	ug/L 99

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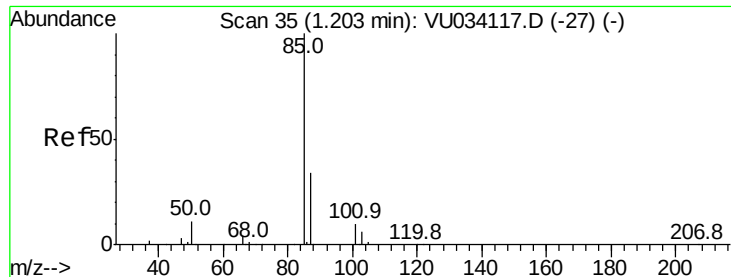
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 31 14:51:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR090119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 31 14:48:50 2019
 Response via : Initial Calibration

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

42) Toluene	7.62	91	98722	0.961	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	24361	0.832	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	16205	0.877	ug/L	99
47) Tetrachloroethene	8.21	164	19828	0.950	ug/L	99
48) 2-Hexanone	8.35	43	91814	8.060	ug/L	97
49) Dibromochloromethane	8.46	129	18390	0.844	ug/L	99
50) 1,2-Dibromoethane	8.57	107	15451	0.881	ug/L #	99
51) Chlorobenzene	9.10	112	64327	0.953	ug/L	99
52) Ethylbenzene	9.23	91	105980	0.976	ug/L	98
53) m,p-Xylene	9.36	106	39354	0.967	ug/L	95
54) o-Xylene	9.76	106	38434	0.997	ug/L	98
55) Styrene	9.78	104	62918	0.956	ug/L	98
56) Isopropylbenzene	10.15	105	101463	0.990	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	20396	0.842	ug/L	94
59) 1,2,3-Trichloropropane	10.48	75	14280	0.827	ug/L	98
61) Bromoform	9.94	173	11031	0.860	ug/L	95
62) 1,3-Dichlorobenzene	11.40	146	52489	0.962	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	52562	0.931	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	48749	0.934	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.64	75	2852	0.732	ug/L	95
67) 1,3,5-Trichlorobenzene	12.87	180	42275	0.987	ug/L	97
68) 1,2,4-trichlorobenzene	13.49	180	30712	0.956	ug/L	96
69) Naphthalene	13.73	128	38428	0.774	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	28075	0.916	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 0.833 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

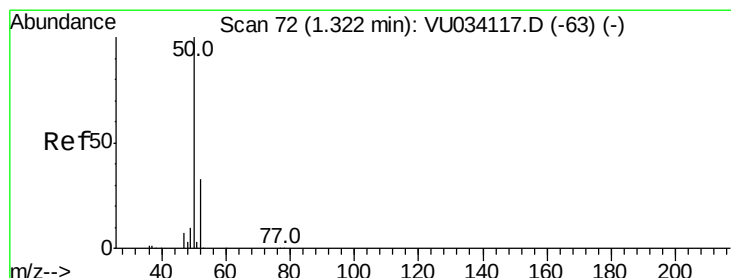
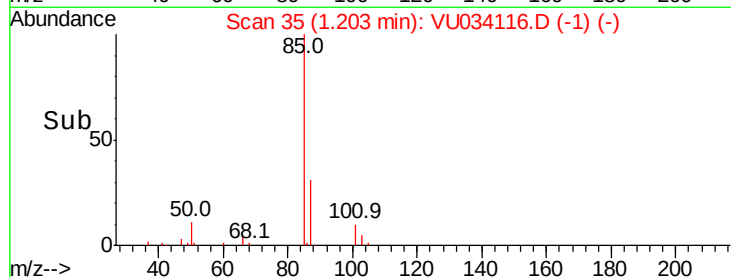
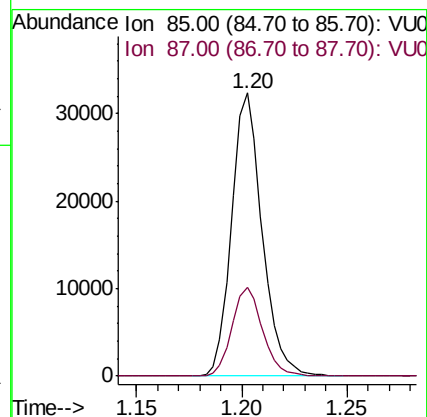
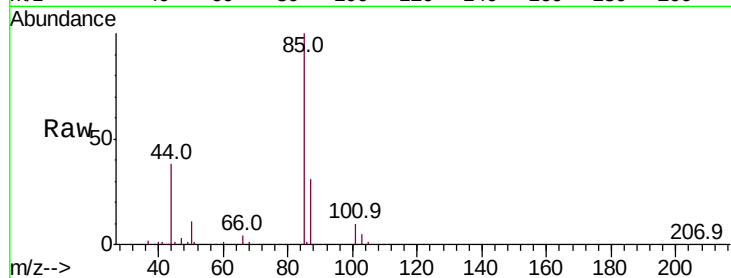
ClientSampleId :

Tot Ion: 85 Resp: 32407

Ion Ratio Lower Upper

85 100

87 31.3 26.2 39.2



#3

Chloromethane

Concen: 0.826 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034116.D

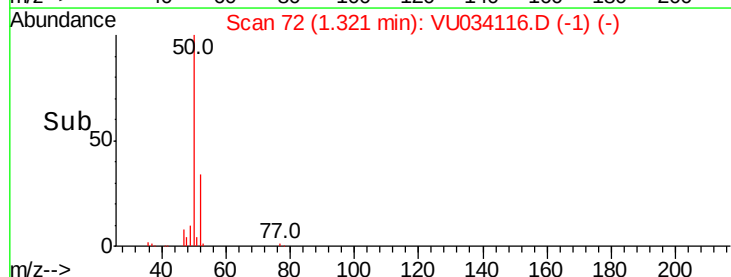
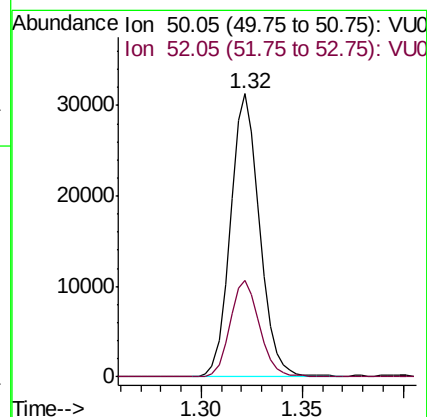
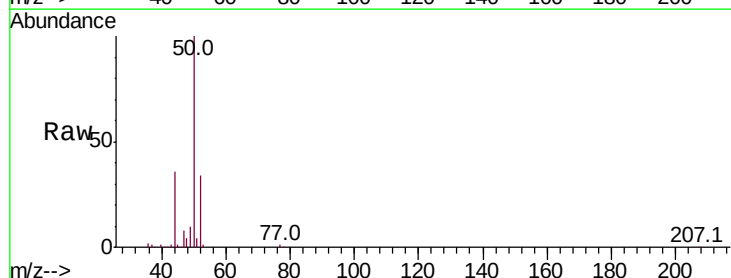
Acq: 31 Aug 2019 11:52

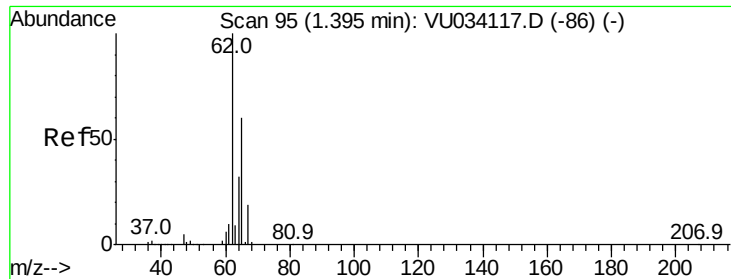
Tgt Ion: 50 Resp: 31620

Ion Ratio Lower Upper

50 100

52 34.1 23.1 42.9





#5

Vinyl chloride

Concen: 0.822 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

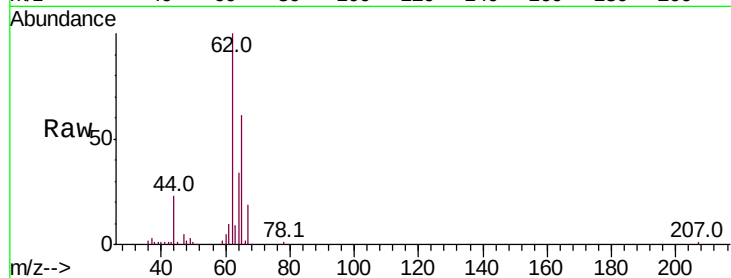
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 33126

Ion Ratio Lower Upper

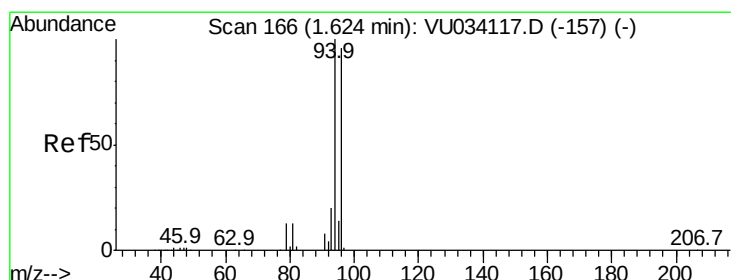
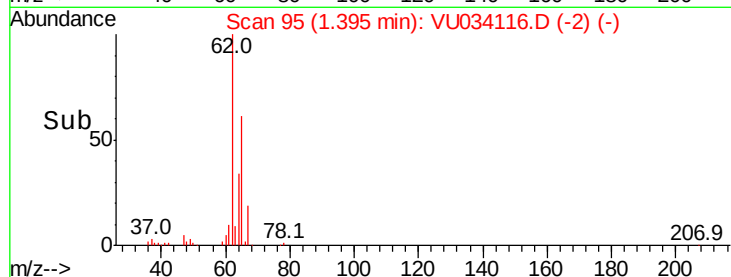
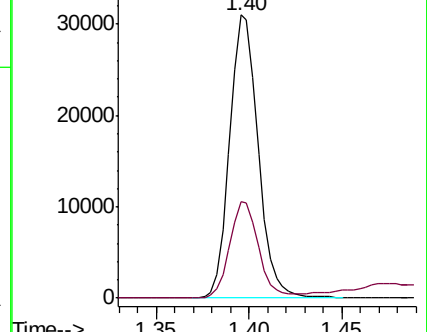
62 100

64 34.0 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.828 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU034116.D

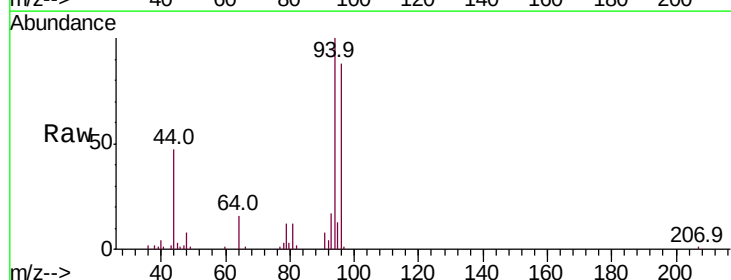
Acq: 31 Aug 2019 11:52

Tgt Ion: 94 Resp: 15250

Ion Ratio Lower Upper

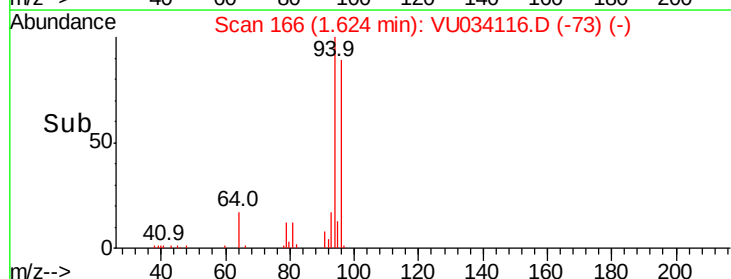
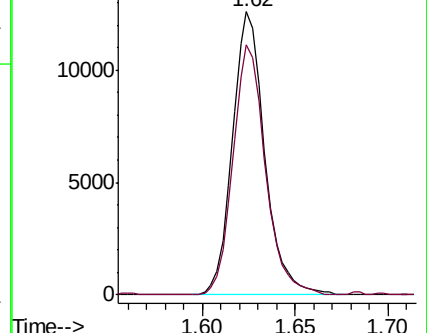
94 100

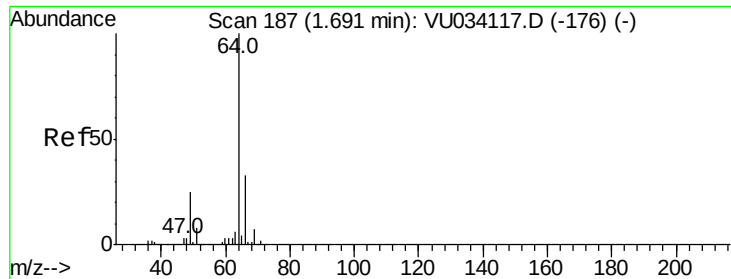
96 88.3 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

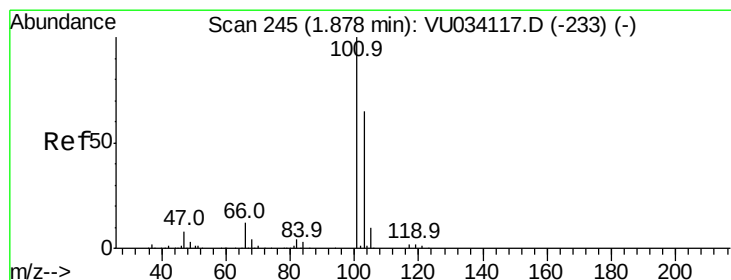
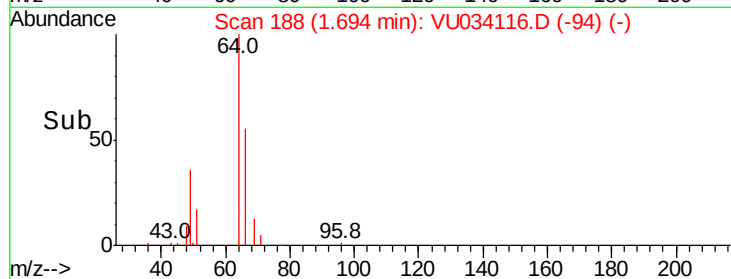
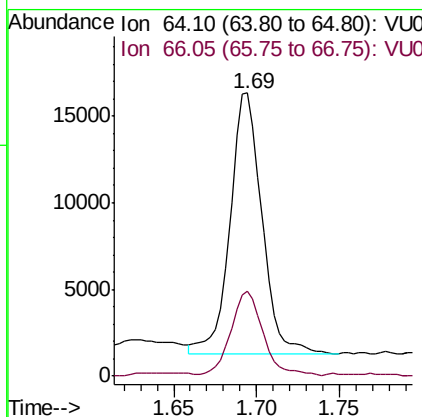
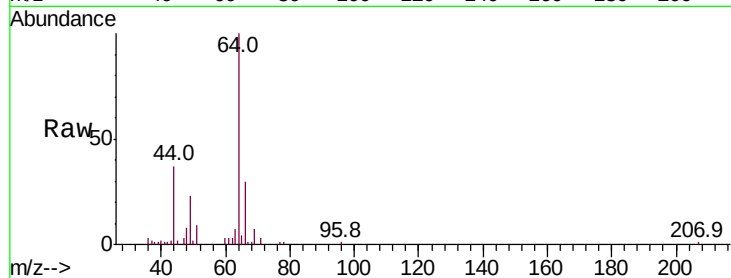




#8
Chloroethane
Concen: 0.814 ug/L
RT: 1.69 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

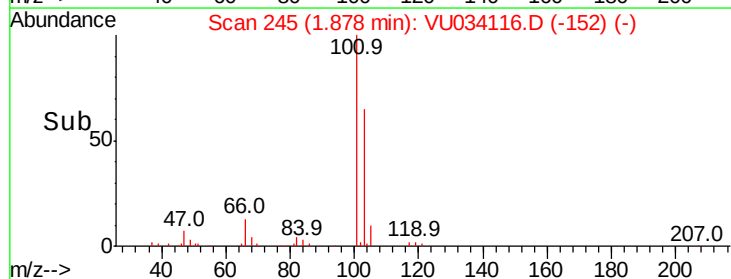
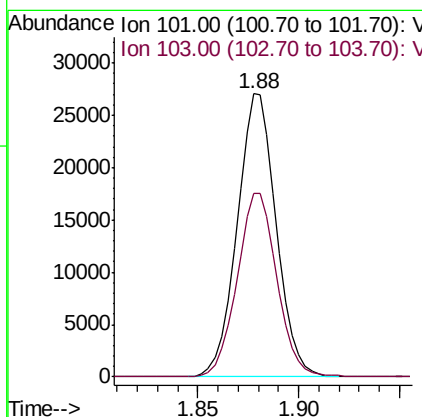
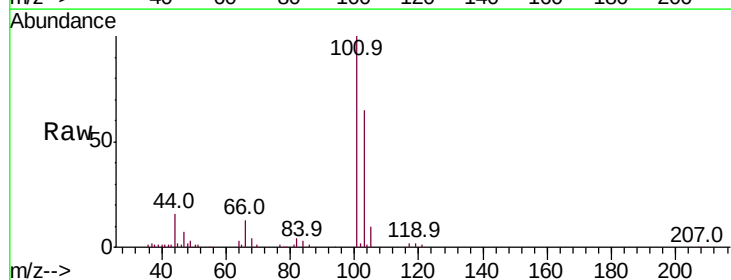
Instrument :
MSVOA_U
ClientSampleId :

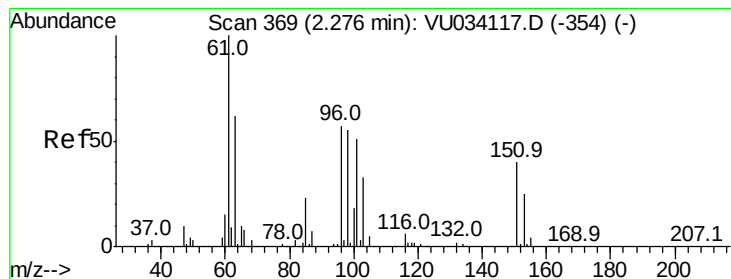
Tot Ion: 64 Resp: 20251
Ion Ratio Lower Upper
64 100
66 30.1 22.7 42.1



#9
Trichlorofluoromethane
Concen: 0.803 ug/L
RT: 1.88 min Scan# 245
Delta R.T. -0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

Tgt Ion:101 Resp: 36572
Ion Ratio Lower Upper
101 100
103 66.3 52.3 78.5





#10

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

Concen: 0.816 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

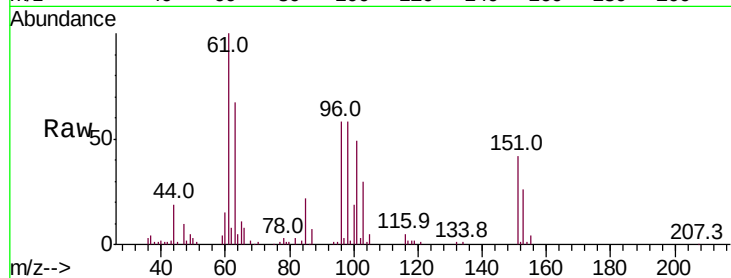
Tot Ion:101 Resp: 21232

Ion Ratio Lower Upper

101 100

85 44.8 35.0 52.4

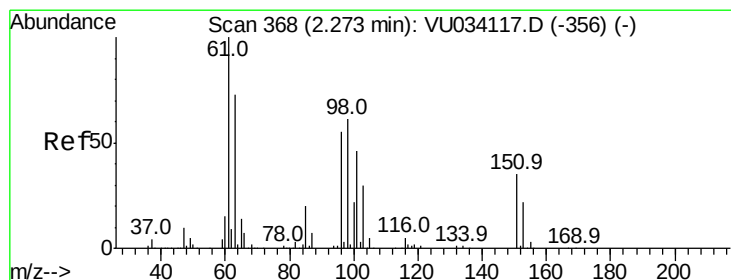
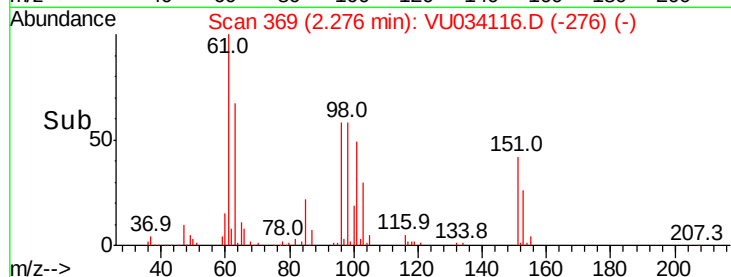
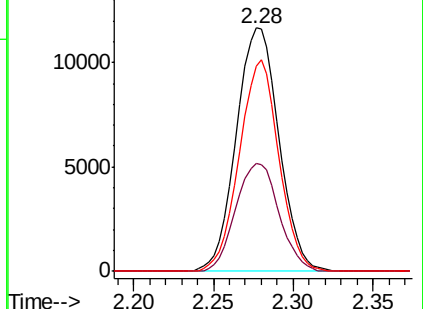
151 80.6 62.0 93.0



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: 0.838 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

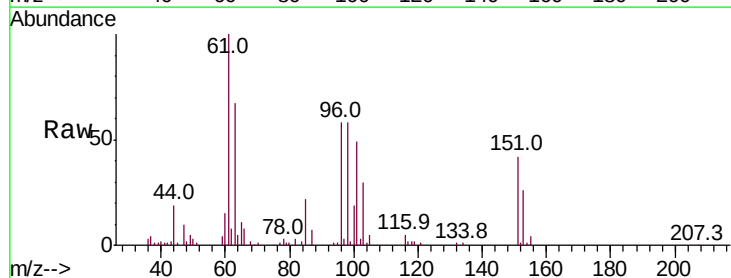
Tgt Ion: 96 Resp: 21256

Ion Ratio Lower Upper

96 100

61 173.6 126.6 235.0

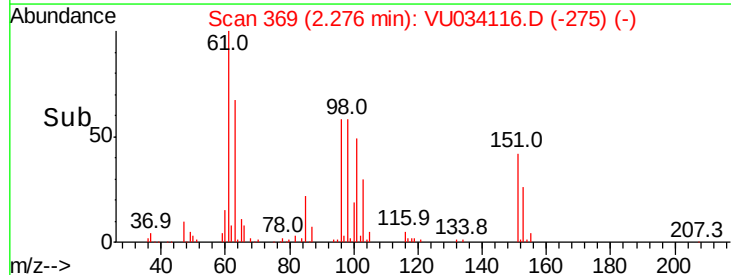
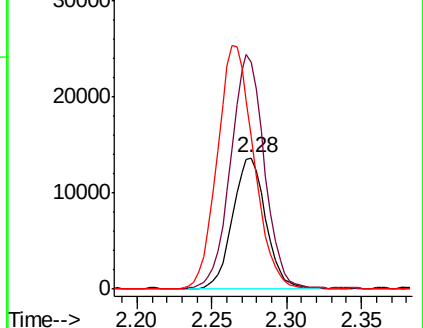
63 116.5 94.5 175.5

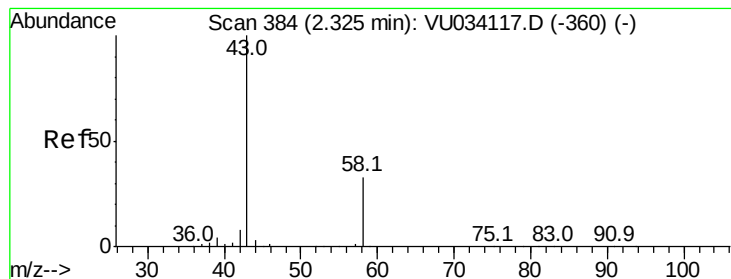


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.656 ug/L

RT: 2.32 min Scan# 384

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

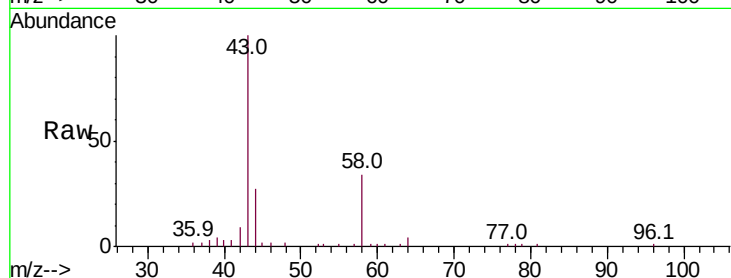
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 34980

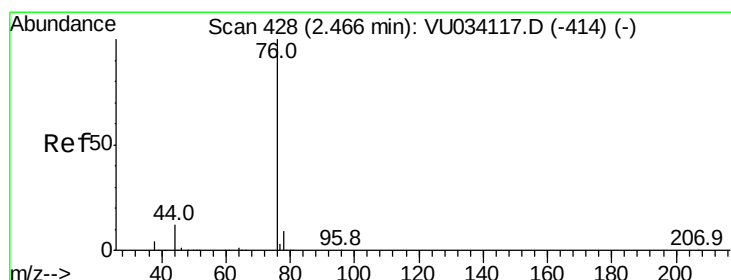
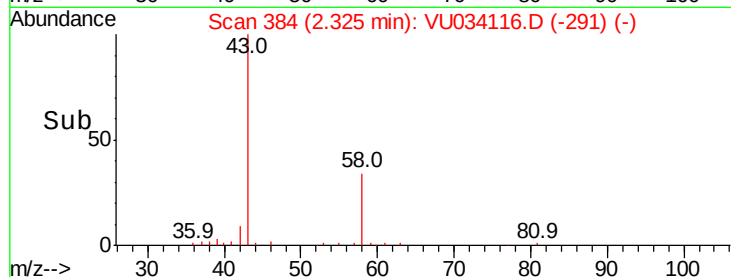
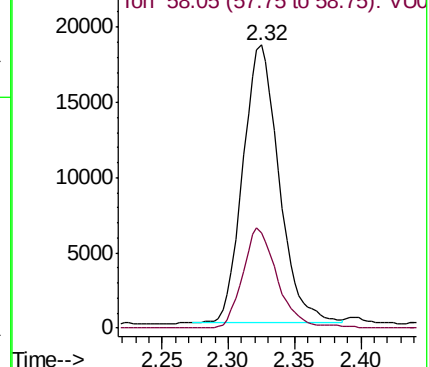
Ion Ratio Lower Upper

43 100

58 34.8 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU034116.D (-291) (-)



#14

Carbon disulfide

Concen: 0.810 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VU034116.D

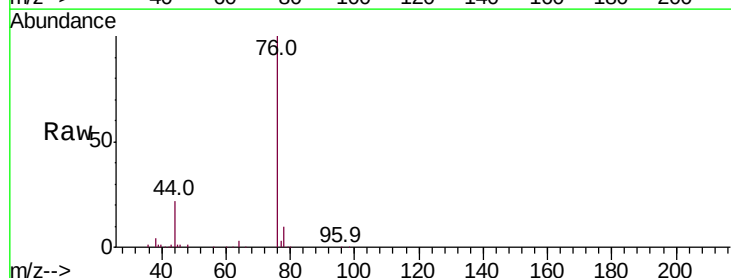
Acq: 31 Aug 2019 11:52

Tgt Ion: 76 Resp: 72153

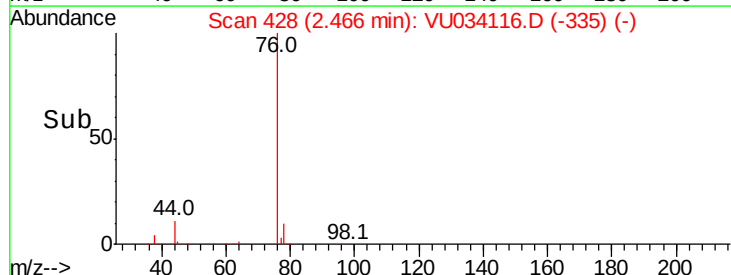
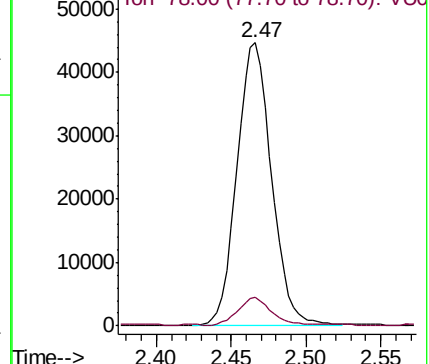
Ion Ratio Lower Upper

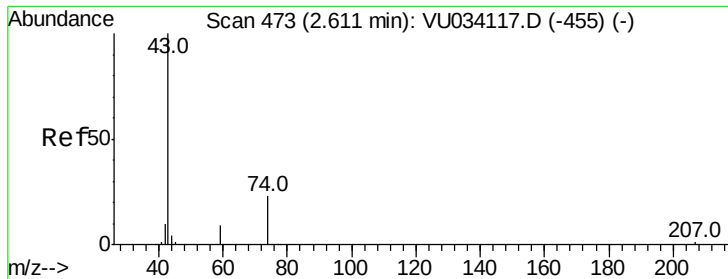
76 100

78 9.9 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU034116.D (-335) (-)

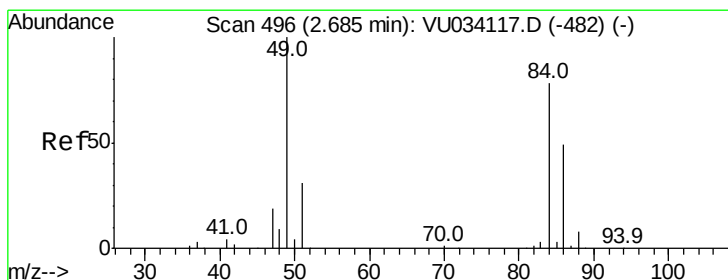
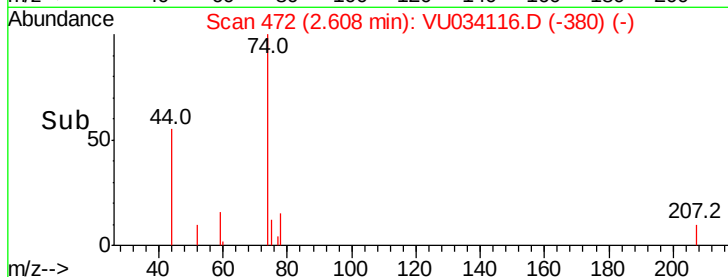
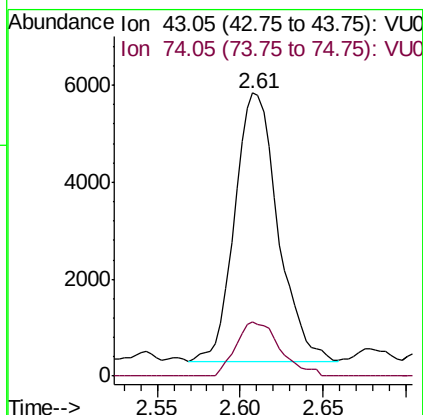
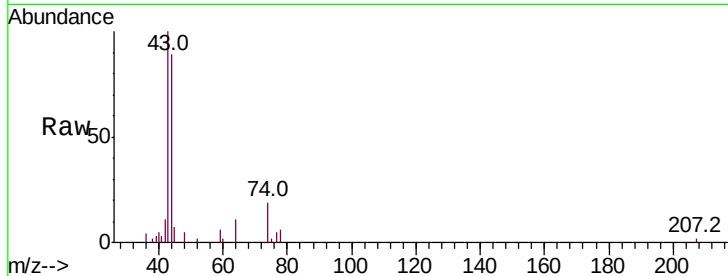




#15
Methvl Acetate
Concen: 0.693 ug/L
RT: 2.61 min Scan# 472
Delta R.T. -0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

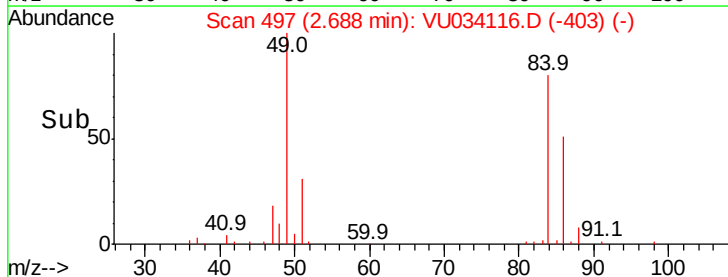
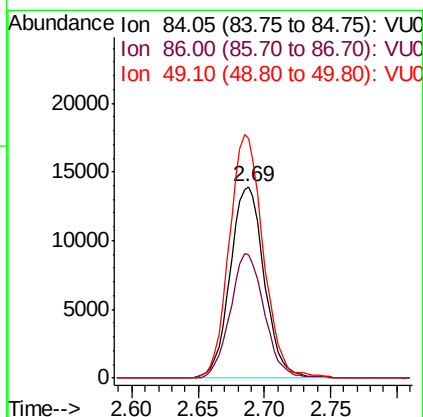
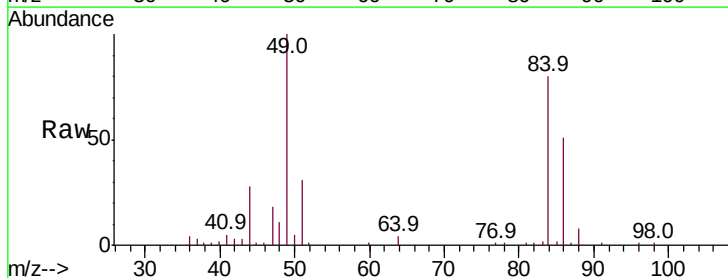
Instrument :
MSVOA_U
ClientSampleId :

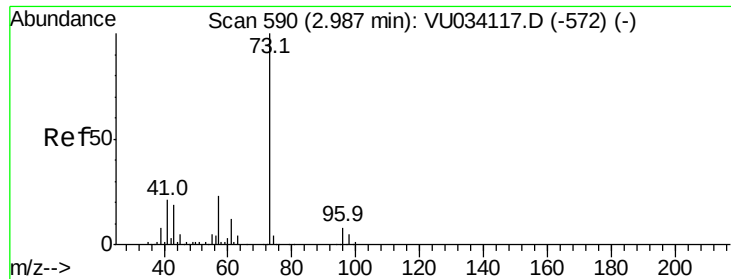
Tot Ion: 43 Resp: 10017
Ion Ratio Lower Upper
43 100
74 20.6 18.4 27.6



#16
Methylene chloride
Concen: 0.837 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

Tgt Ion: 84 Resp: 24890
Ion Ratio Lower Upper
84 100
86 64.4 44.4 82.5
49 125.3 90.2 167.4

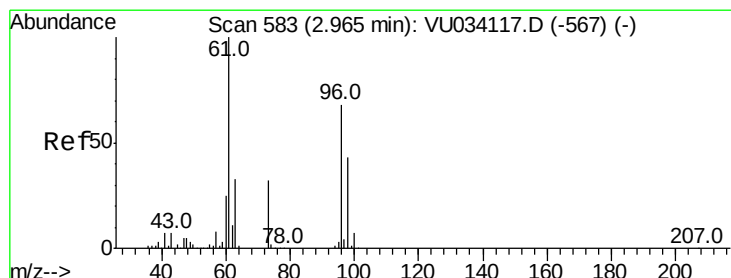
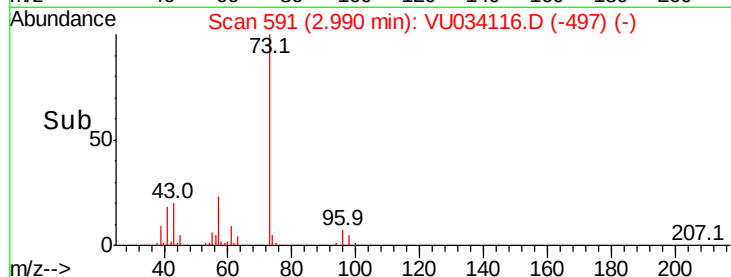
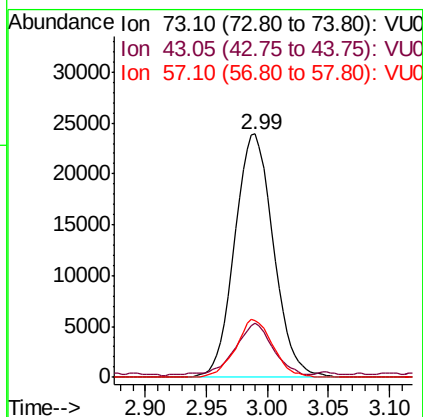
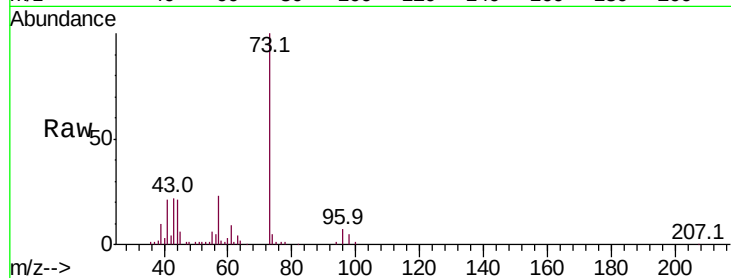




#17
Methvl tert-butvl Ether
Concen: 0.803 ug/L
RT: 2.99 min Scan# 591
Delta R.T. 0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

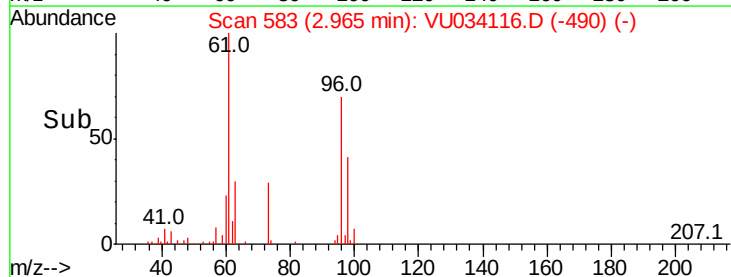
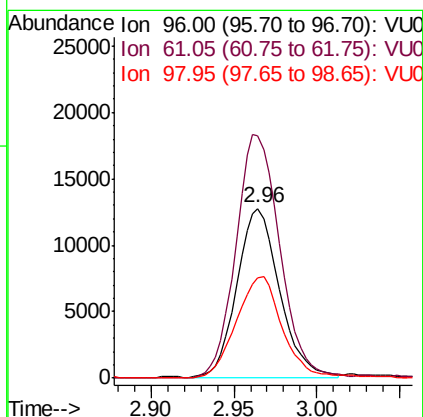
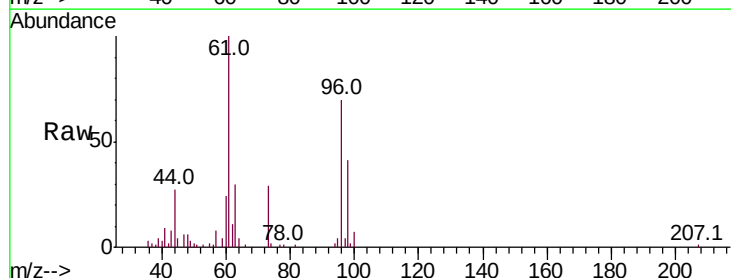
Instrument :
MSVOA_U
ClientSampled :

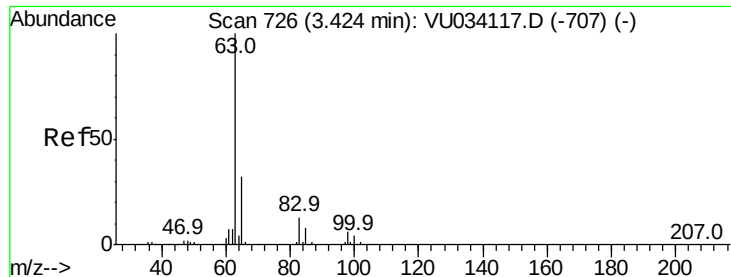
Tot Ion: 73 Resp: 52613
Ion Ratio Lower Upper
73 100
43 20.8 14.7 22.1
57 22.6 18.6 27.8



#18
trans-1,2-Dichloroethene
Concen: 0.842 ug/L
RT: 2.96 min Scan# 583
Delta R.T. -0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

Tgt Ion: 96 Resp: 23048
Ion Ratio Lower Upper
96 100
61 143.0 103.5 192.3
98 59.3 44.9 83.3





#19

1,1-Dichloroethane

Concen: 0.826 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

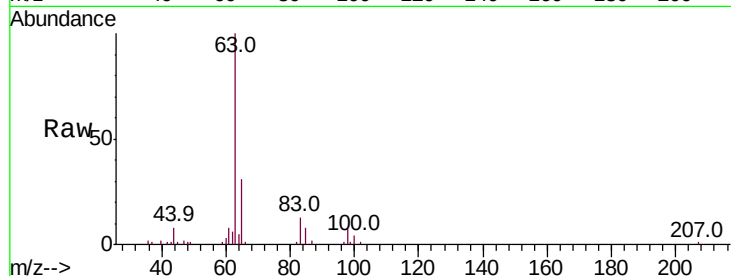
Tot Ion: 63 Resp: 44226

Ion Ratio Lower Upper

63 100

65 31.2 22.5 41.9

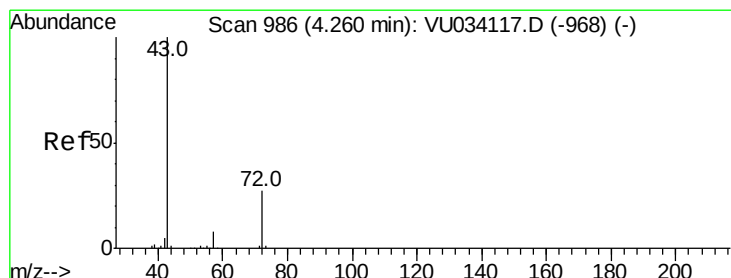
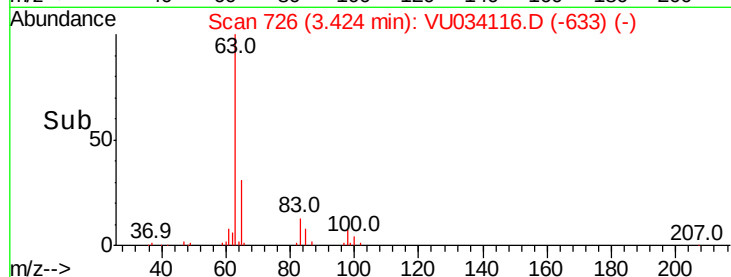
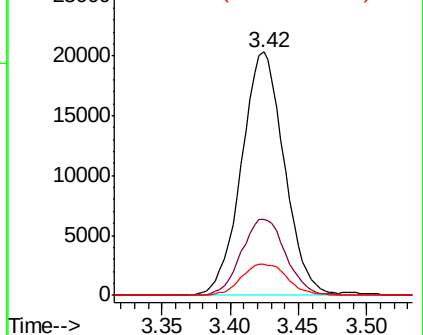
83 12.9 9.1 16.9



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: 7.015 ug/L

RT: 4.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VU034116.D

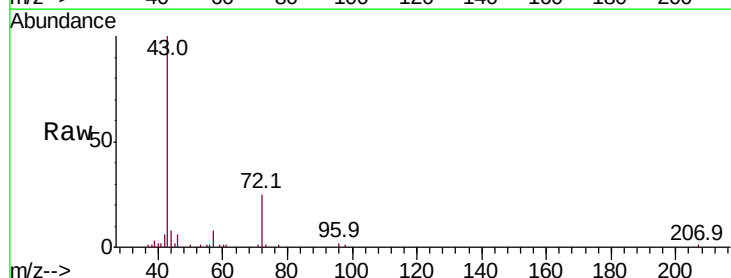
Acq: 31 Aug 2019 11:52

Tgt Ion: 43 Resp: 53554

Ion Ratio Lower Upper

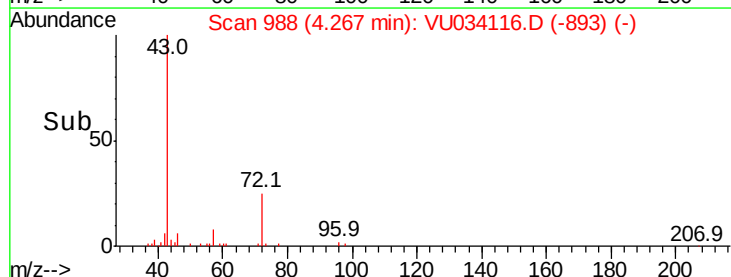
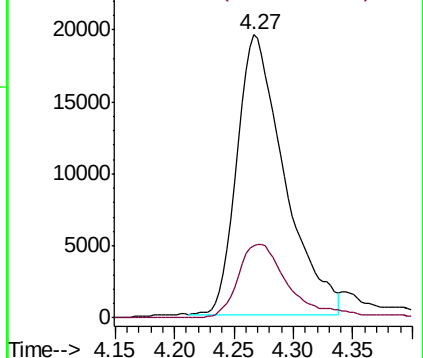
43 100

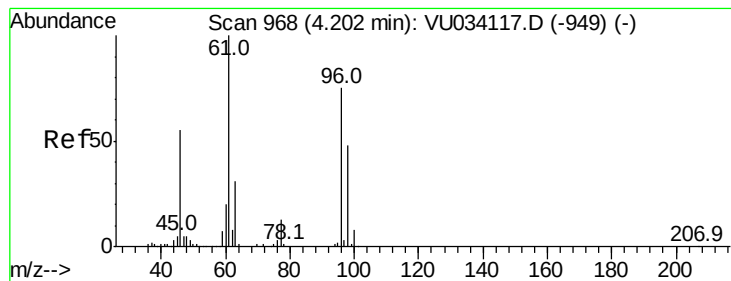
72 28.2 13.3 39.8



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: 0.897 ug/L

RT: 4.20 min Scan# 968

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :
MSVOA_U
ClientSampleId :

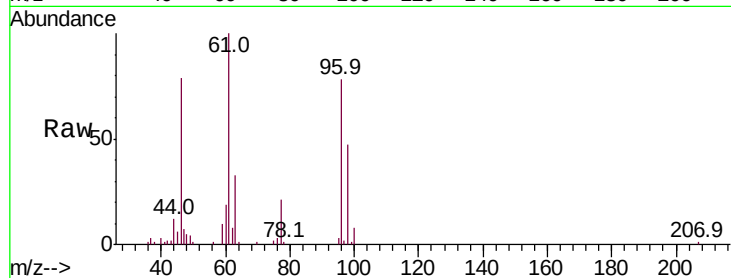
Tot Ion: 96 Resp: 25734

Ion Ratio Lower Upper

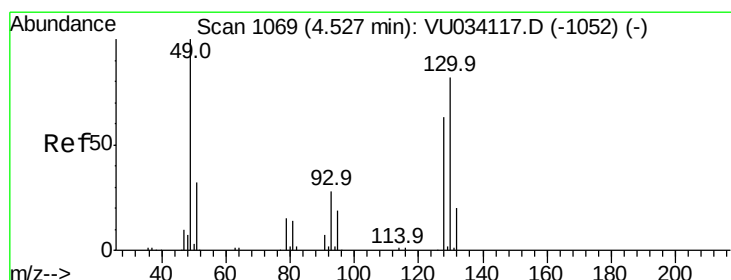
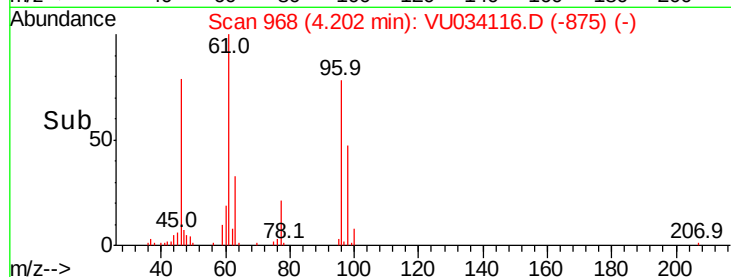
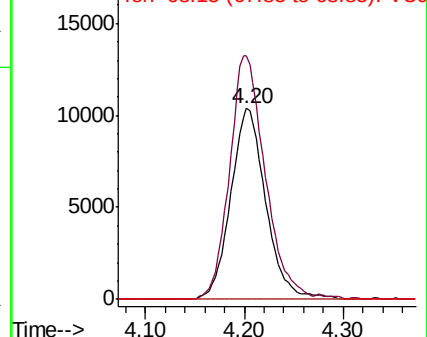
96 100

61 127.7 93.6 173.8

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: 0.840 ug/L

RT: 4.53 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Tgt Ion: 128 Resp: 10818

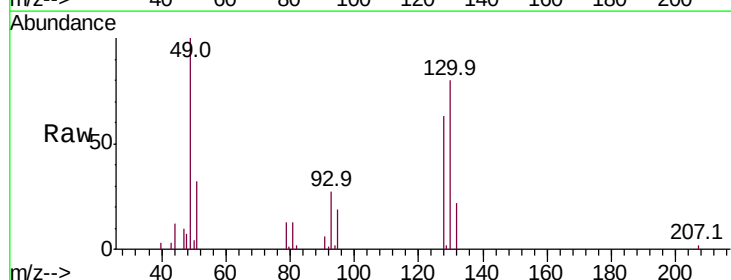
Ion Ratio Lower Upper

128 100

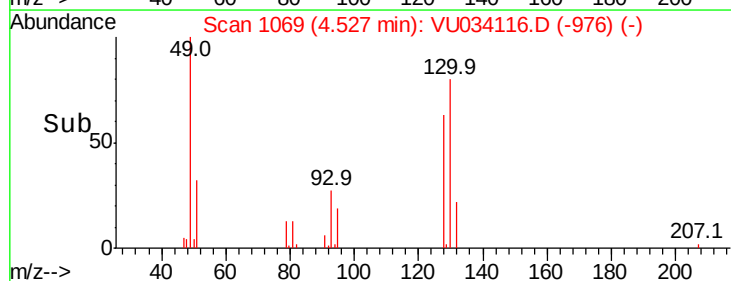
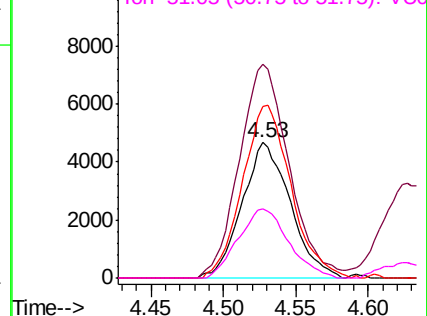
49 157.8 110.8 205.8

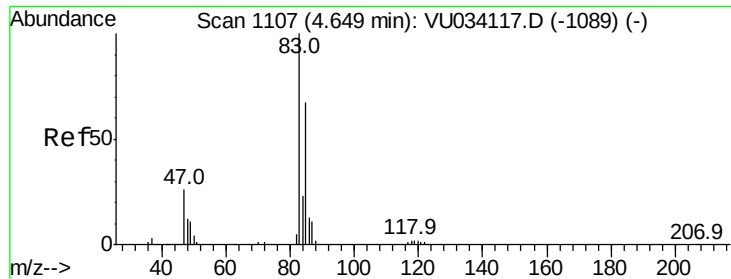
130 127.0 90.8 168.6

51 50.9 41.1 61.7



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

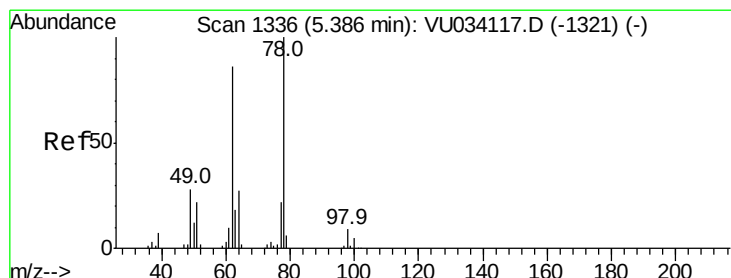
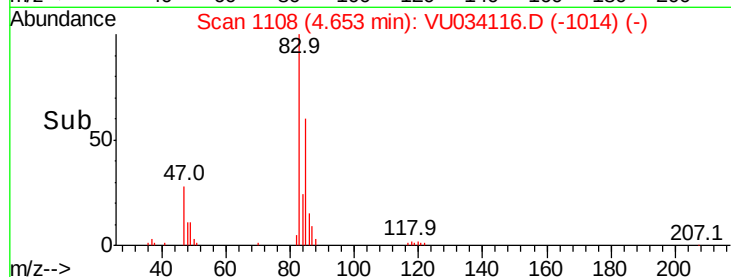
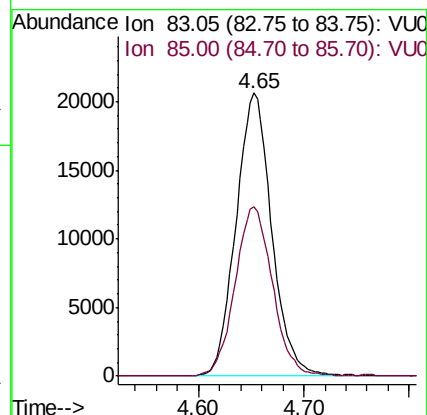
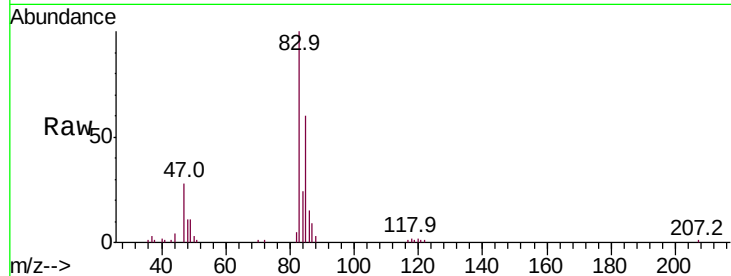




#25
Chloroform
Concen: 0.875 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

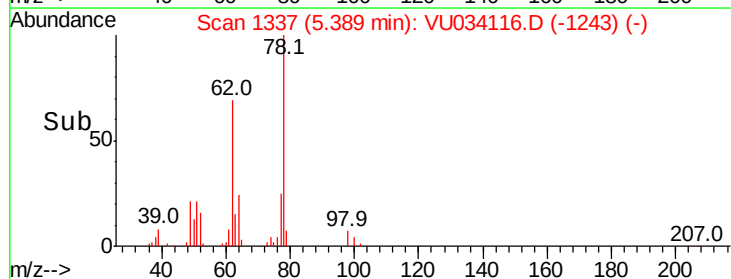
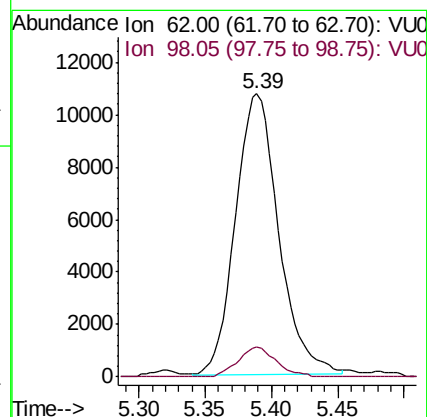
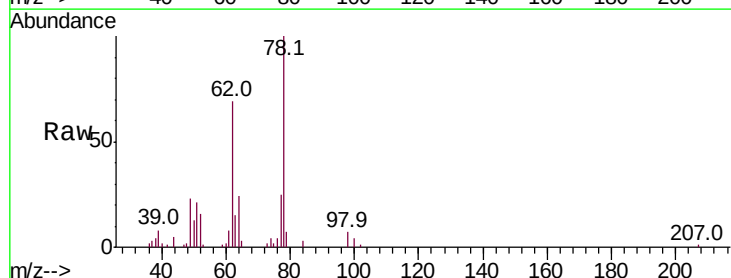
Instrument :
MSVOA_U
ClientSampleId :

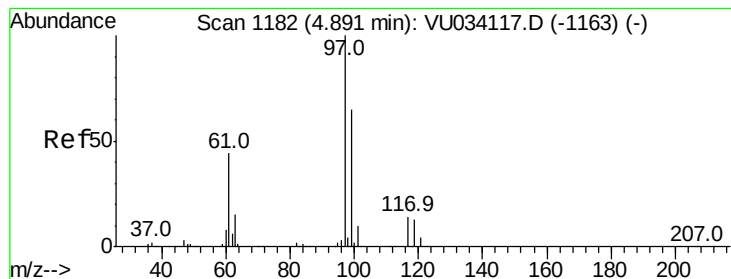
Tot Ion: 83 Resp: 48485
Ion Ratio Lower Upper
83 100
85 59.7 46.8 86.8



#27
1,2-Dichloroethane
Concen: 0.751 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

Tgt Ion: 62 Resp: 24370
Ion Ratio Lower Upper
62 100
98 10.5 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 0.879 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

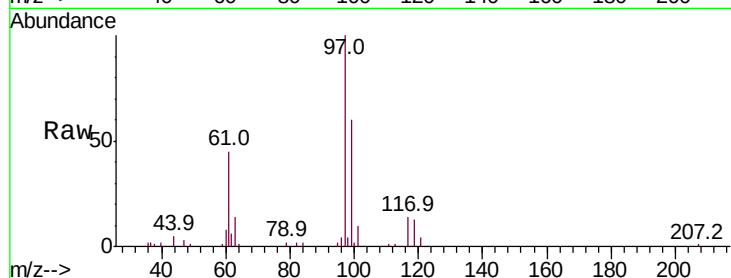
Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 97 Resp: 34490

Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.1	78.1
61	46.5	35.4	53.2

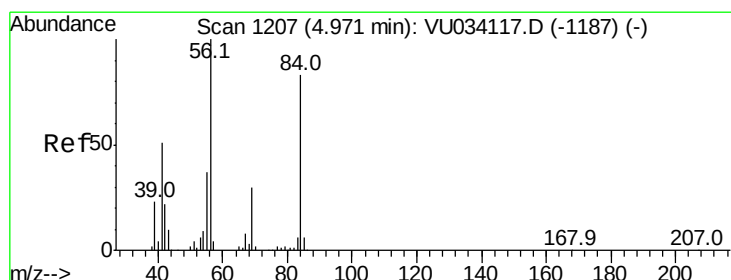
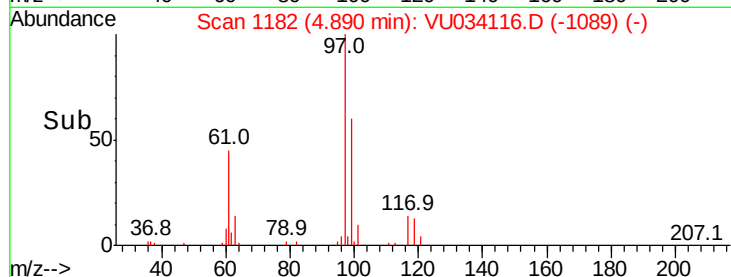
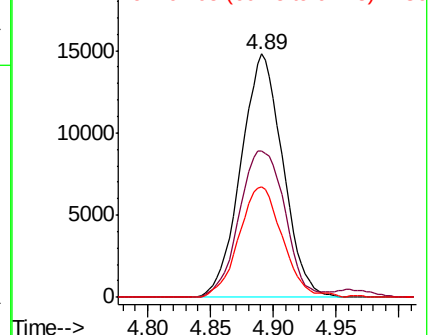


Abundance

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: 0.967 ug/L

RT: 4.97 min Scan# 1206

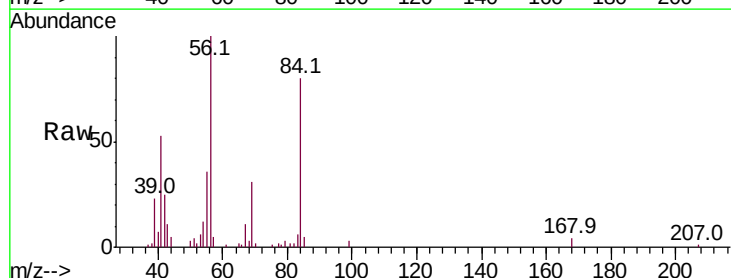
Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Tgt Ion: 56 Resp: 39600

Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.2	36.4
84	84.1	67.0	100.4

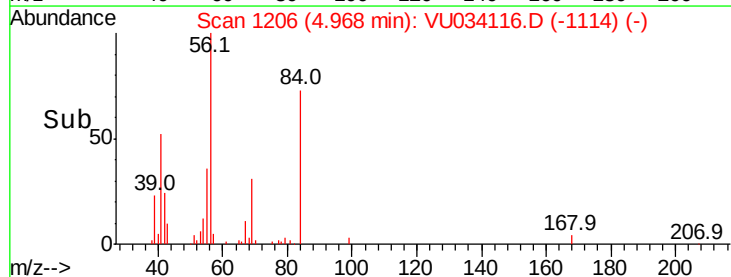
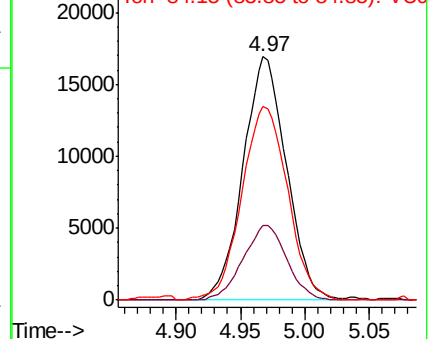


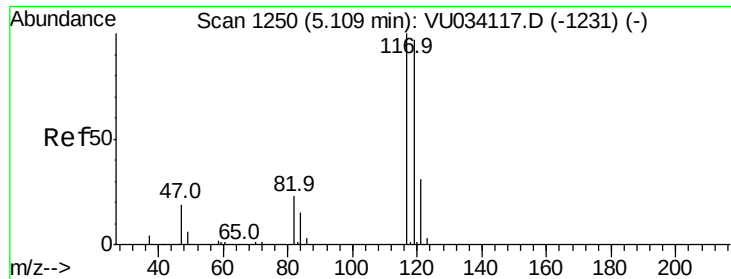
Abundance

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: 0.895 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

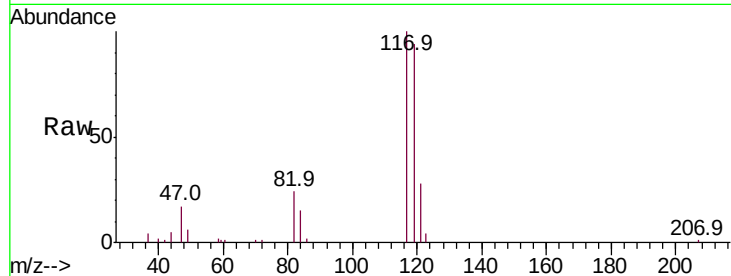
ClientSampleId :

Tot Ion:117 Resp: 31180

Ion Ratio Lower Upper

117 100

119 96.4 77.1 115.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.11

15000

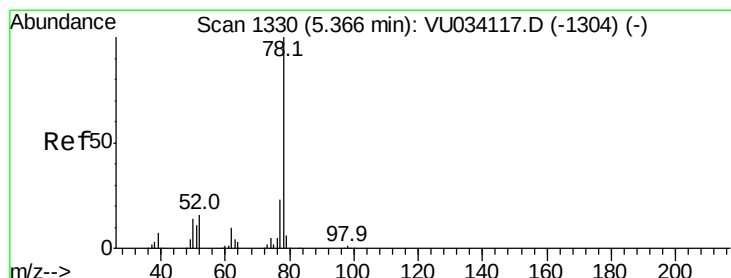
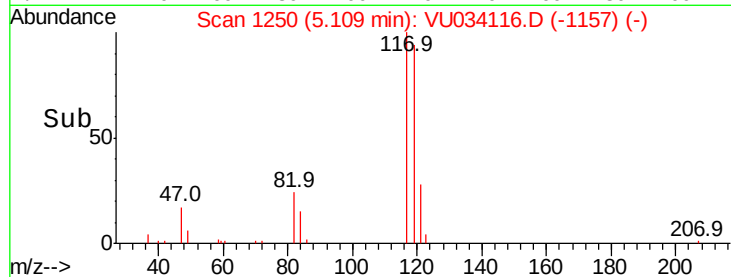
10000

5000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 0.956 ug/L

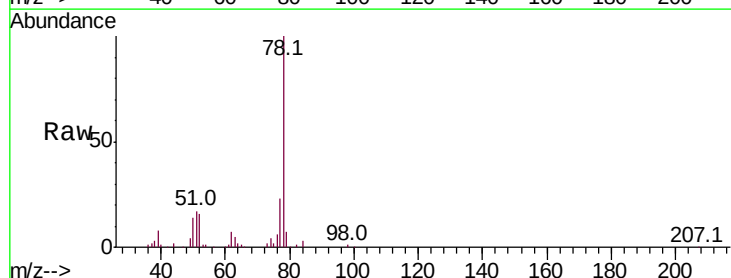
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Tgt Ion: 78 Resp: 97037



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.37

50000

40000

30000

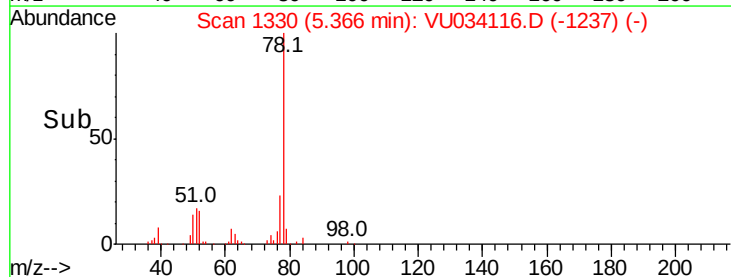
20000

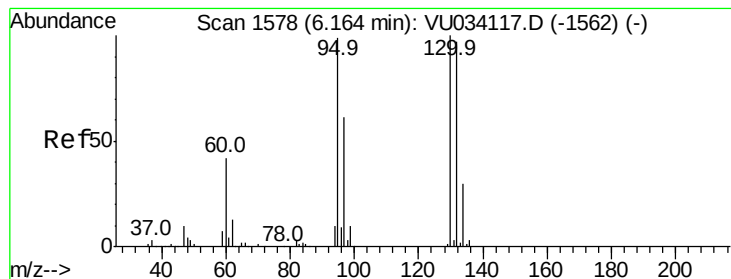
10000

0

Time-->

5.30 5.40 5.50





#34

Trichloroethene

Concen: 0.919 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 24320

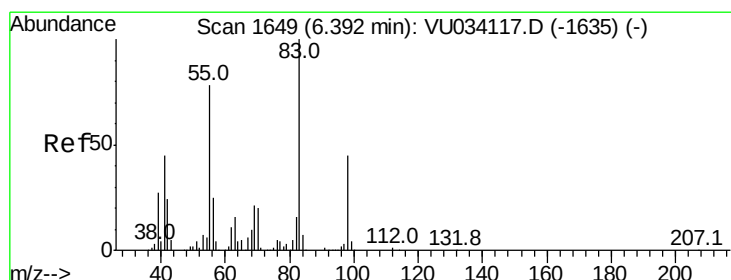
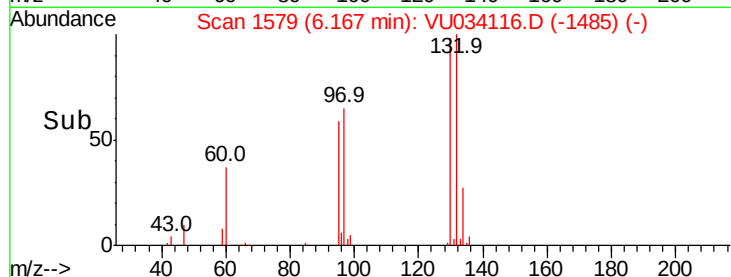
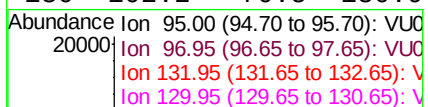
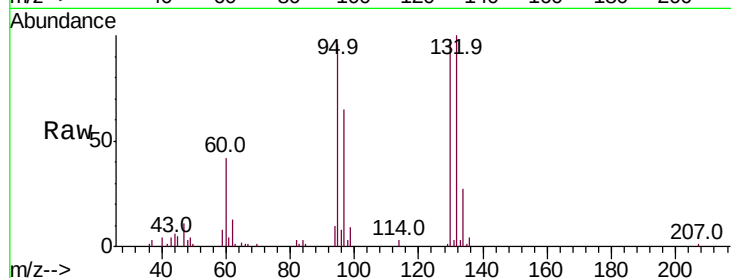
Ion Ratio Lower Upper

95 100

97 67.4 43.3 80.5

132 104.3 68.6 127.4

130 102.2 70.5 130.9



#35

Methylcyclohexane

Concen: 0.959 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

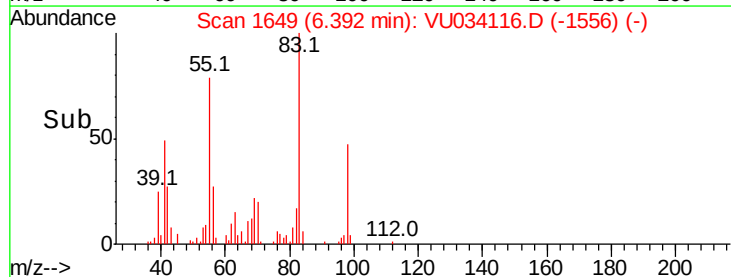
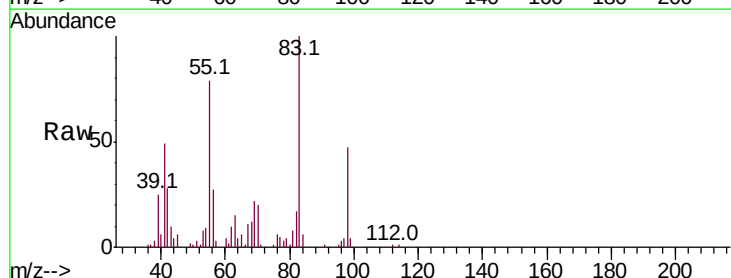
Tgt Ion: 83 Resp: 39025

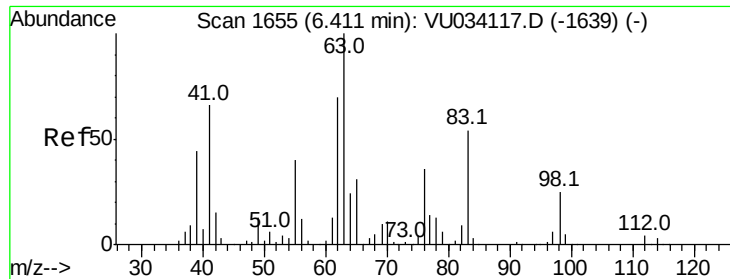
Ion Ratio Lower Upper

83 100

55 81.5 62.6 94.0

98 46.6 36.2 54.2

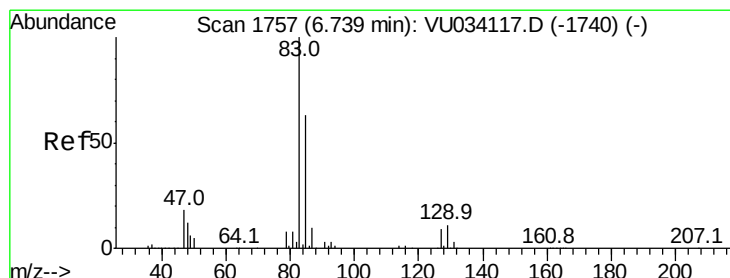
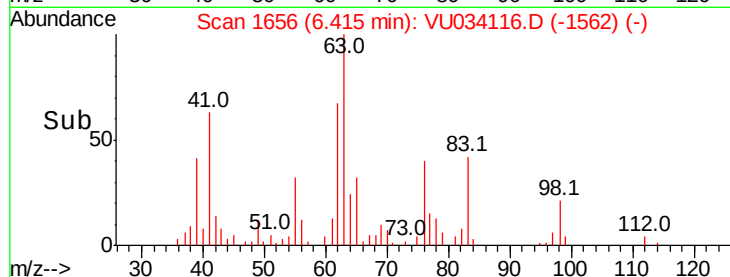
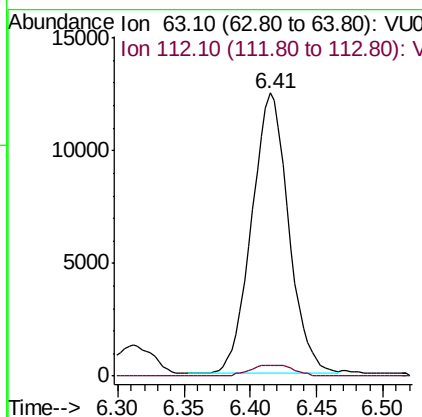
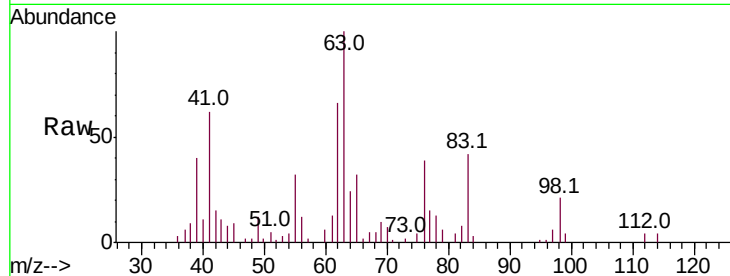




#37
 1,2-Dichloropropane
 Concen: 0.878 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

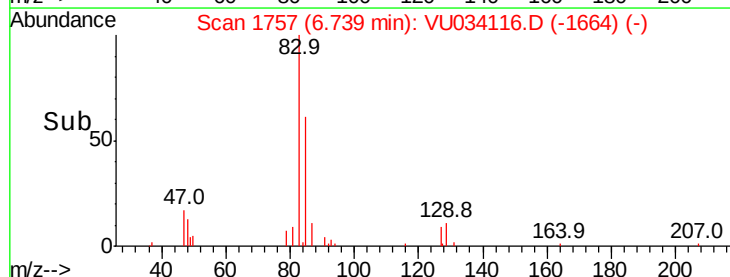
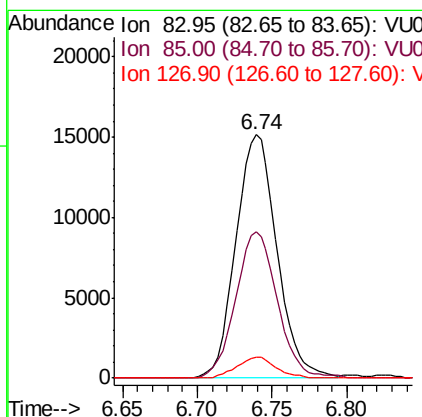
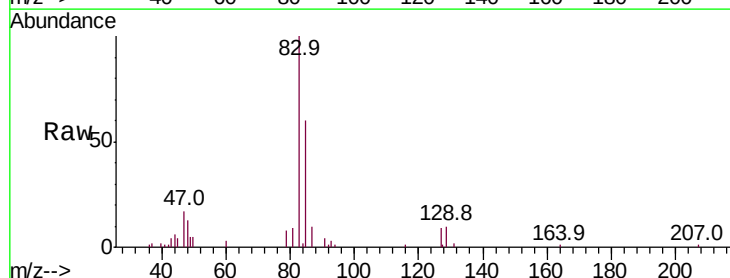
Instrument :
 MSVOA_U
 ClientSampled :

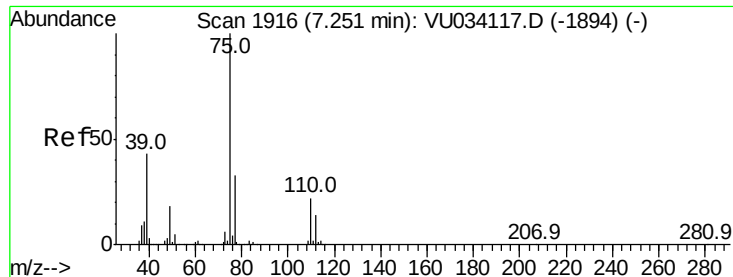
Tot Ion: 63 Resp: 24282
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.3 4.9



#38
 Bromodichloromethane
 Concen: 0.863 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

Tgt Ion: 83 Resp: 28967
 Ion Ratio Lower Upper
 83 100
 85 60.1 44.0 81.8
 127 9.4 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 0.915 ug/L

RT: 7.25 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

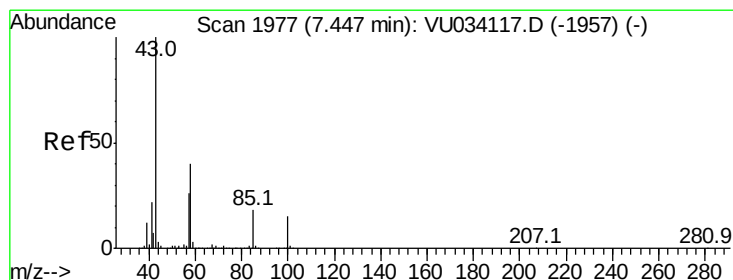
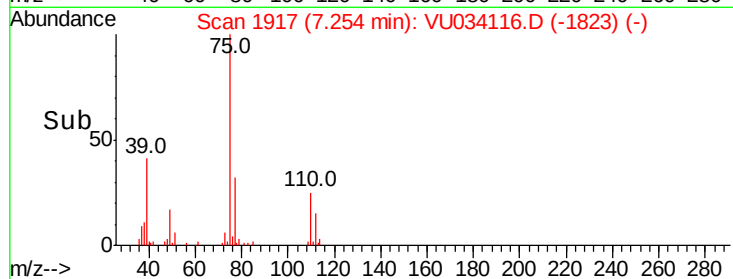
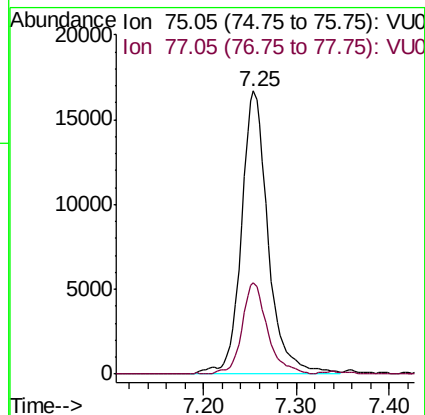
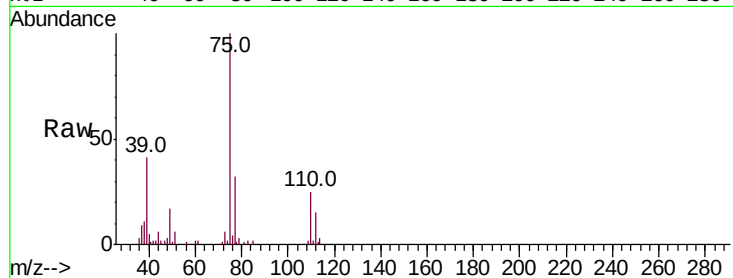
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 33350

Ion Ratio Lower Upper

75 100

77 32.1 23.2 43.2



#40

4-Methyl-2-pentanone

Concen: 8.100 ug/L

RT: 7.45 min Scan# 1978

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

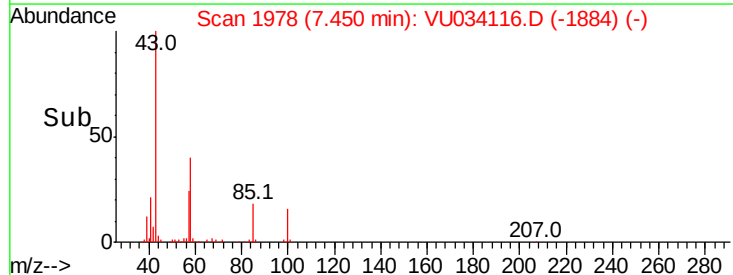
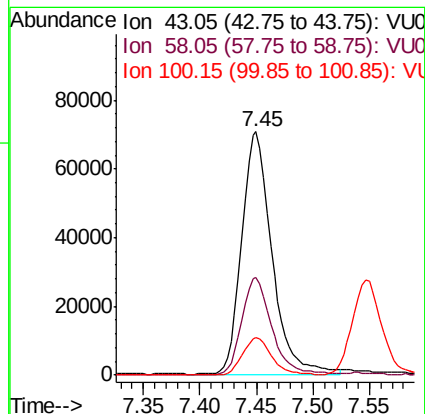
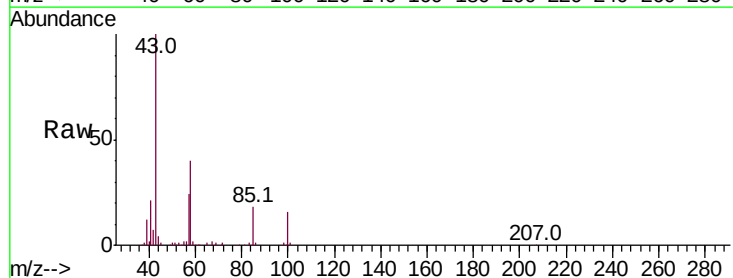
Tgt Ion: 43 Resp: 132147

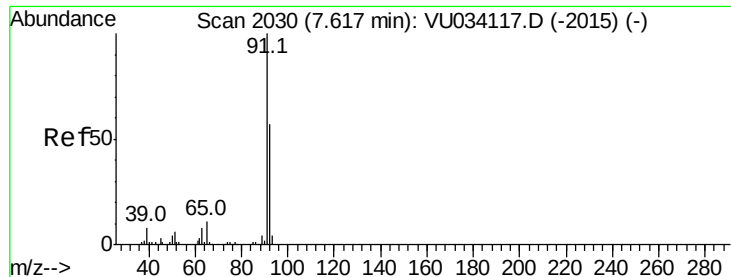
Ion Ratio Lower Upper

43 100

58 40.1 32.4 48.6

100 15.0 12.2 18.2





#42

Toluene

Concen: 0.961 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

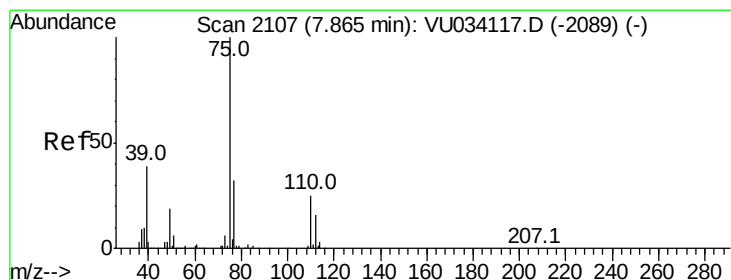
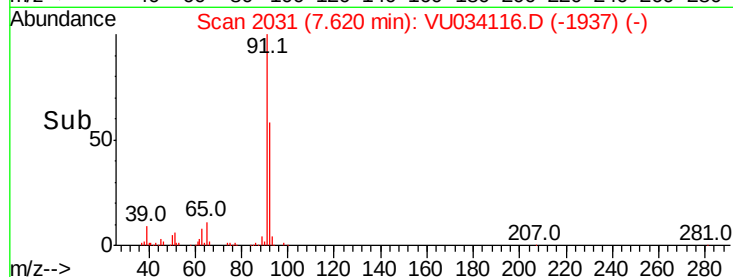
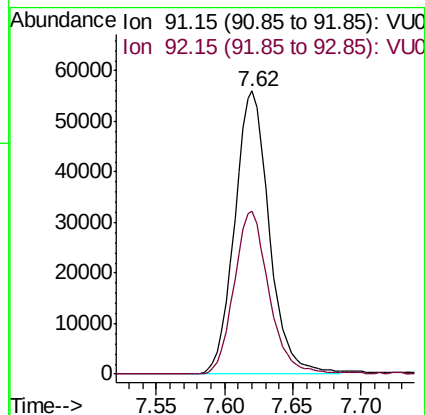
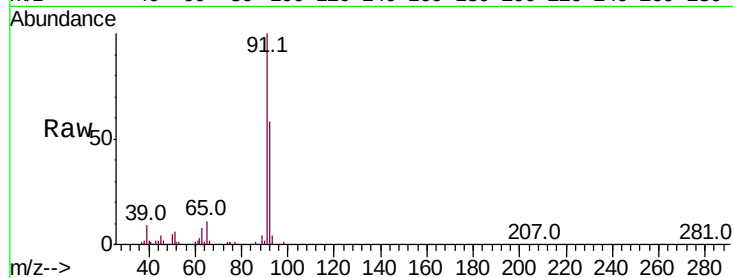
ClientSampleId :

Tot Ion: 91 Resp: 98722

Ion Ratio Lower Upper

91 100

92 57.7 40.0 74.2



#44

trans-1,3-Dichloropropene

Concen: 0.832 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VU034116.D

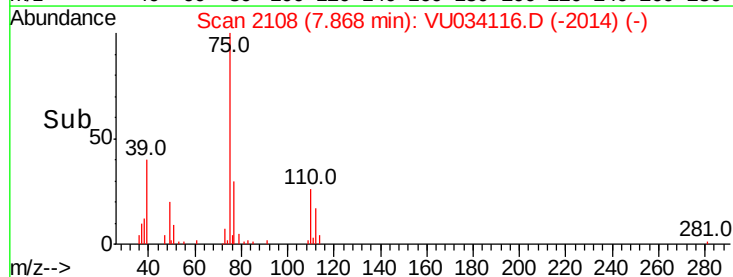
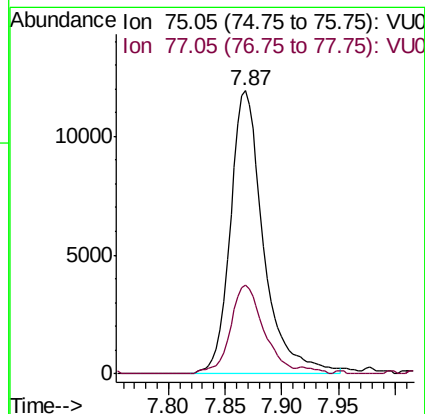
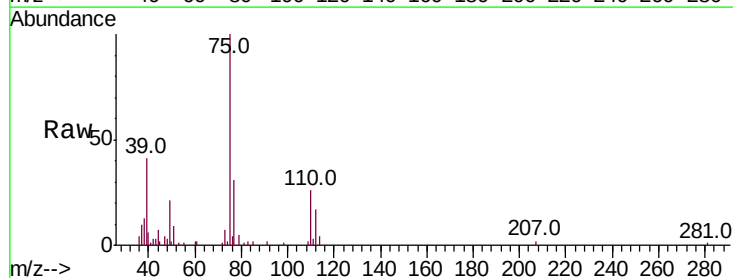
Acq: 31 Aug 2019 11:52

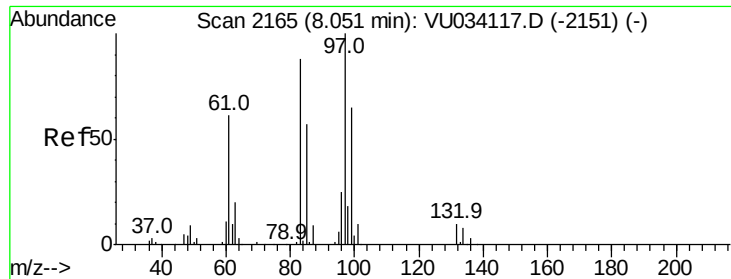
Tgt Ion: 75 Resp: 24361

Ion Ratio Lower Upper

75 100

77 31.3 22.7 42.3





#45

1,1,2-Trichloroethane

Concen: 0.877 ug/L

RT: 8.05 min Scan# 2166

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 16205

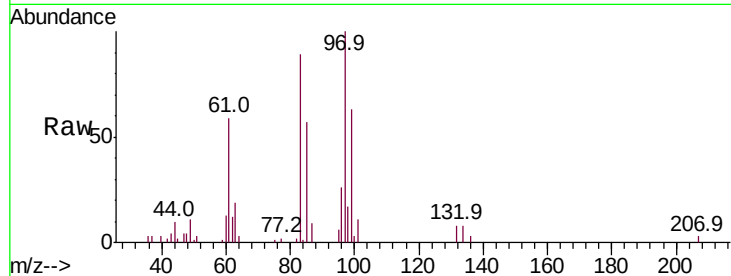
Ion Ratio Lower Upper

97 100

99 63.3 45.5 84.5

83 88.6 61.5 114.3

85 57.4 40.0 74.2

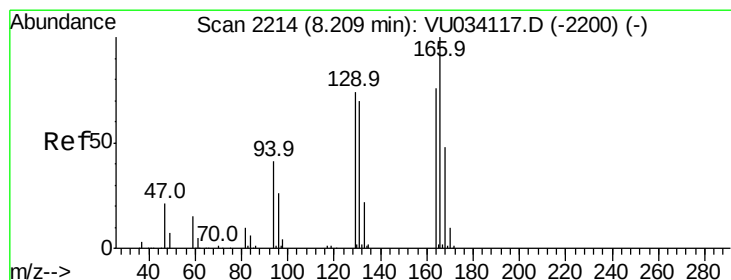
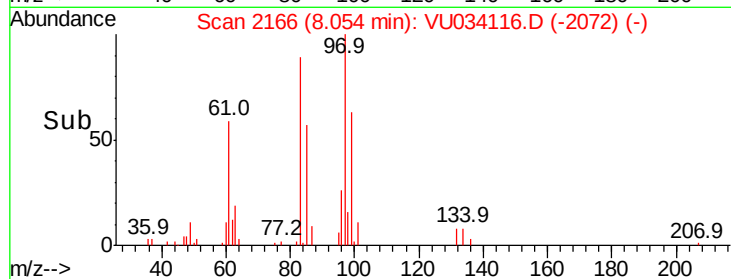
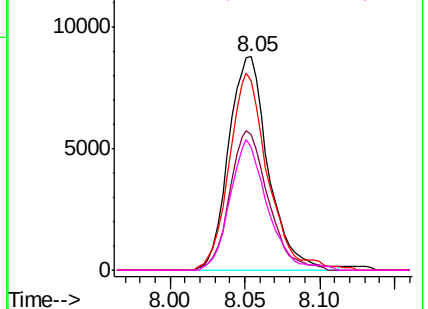


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 0.950 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Tgt Ion:164 Resp: 19828

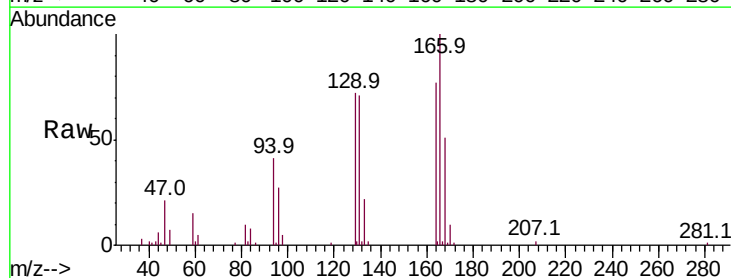
Ion Ratio Lower Upper

164 100

129 94.6 68.0 126.2

131 92.2 64.6 120.0

166 130.7 92.0 170.8

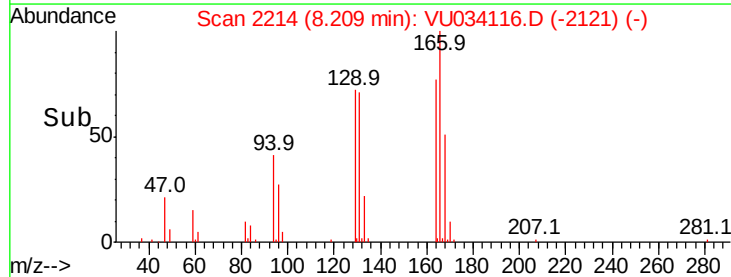
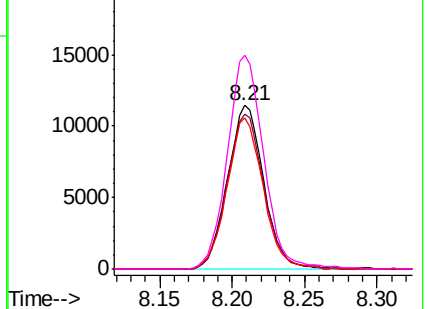


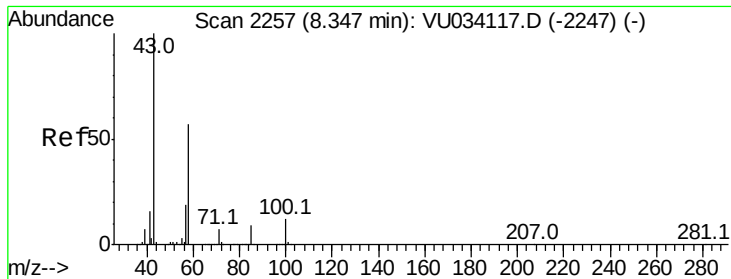
Abundance Ion 163.90 (163.60 to 164.60): V

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

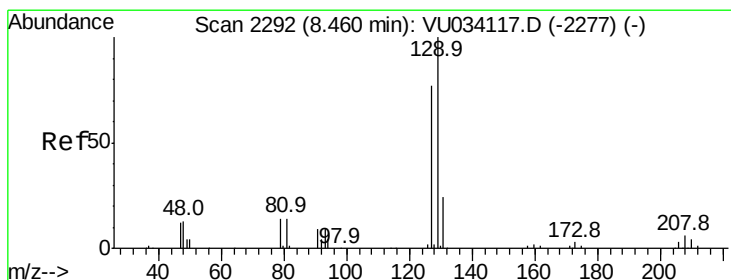
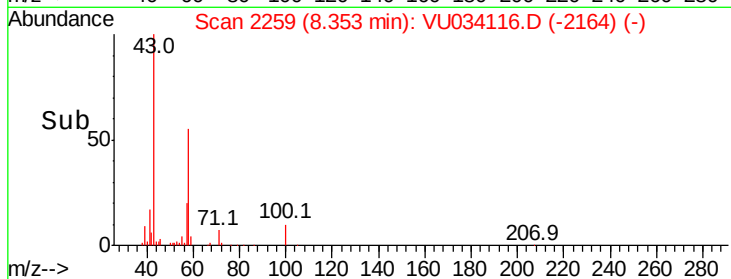
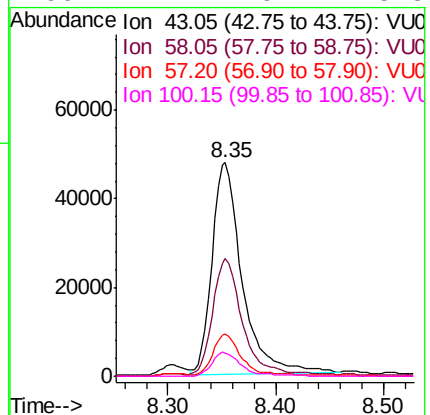
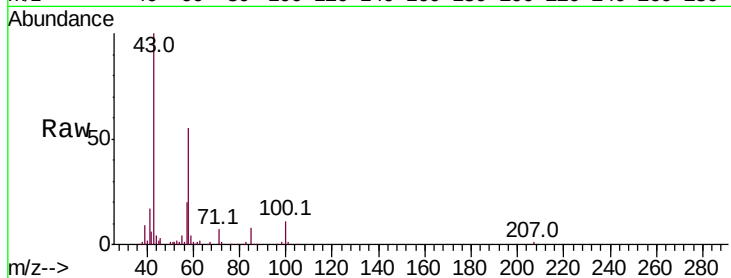




#48
2-Hexanone
Concen: 8.060 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.01 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

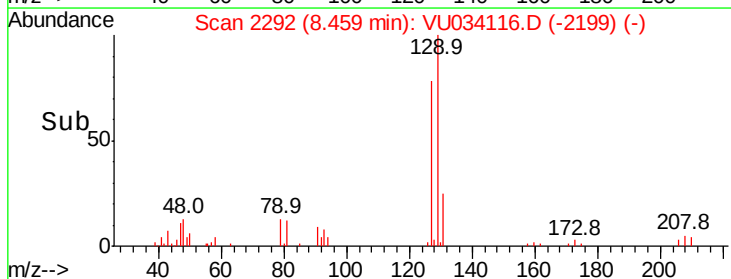
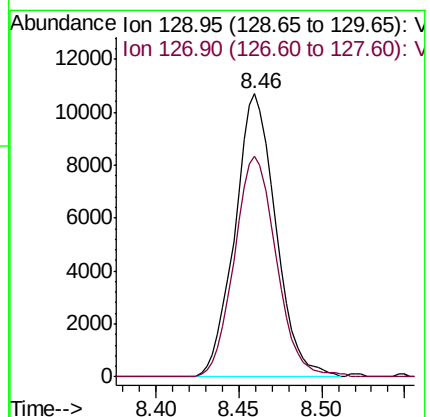
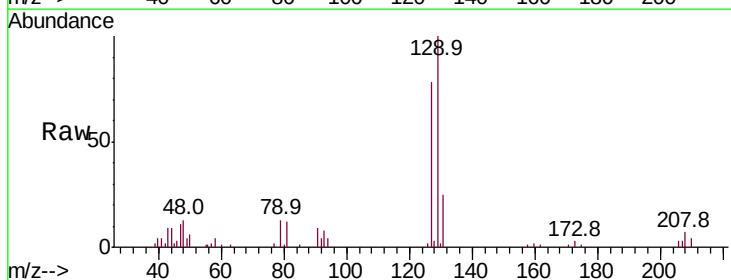
Instrument :
MSVOA_U
ClientSampleId :

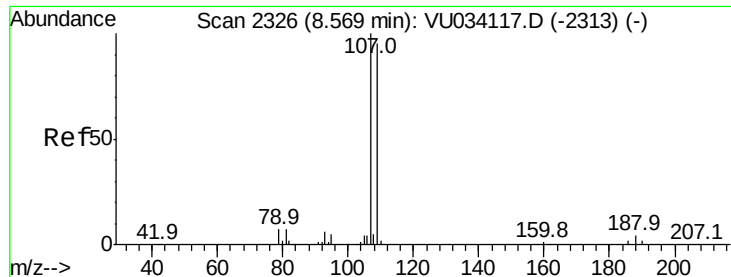
Tot Ion:	43	Resp:	91814
Ion	Ratio	Lower	Upper
43	100		
58	53.3	44.9	67.3
57	18.9	15.0	22.6
100	11.2	9.2	13.8



#49
Dibromochloromethane
Concen: 0.844 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU034116.D
Acq: 31 Aug 2019 11:52

Tgt Ion:	129	Resp:	18390
Ion	Ratio	Lower	Upper
129	100		
127	78.1	54.2	100.6

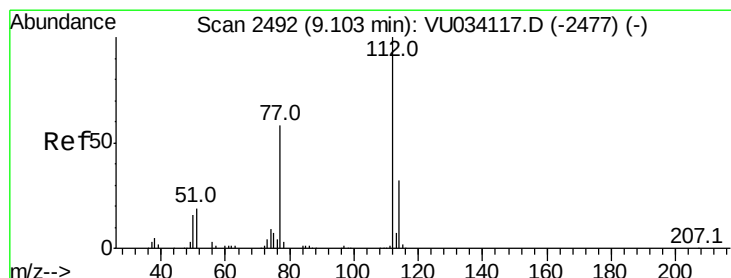
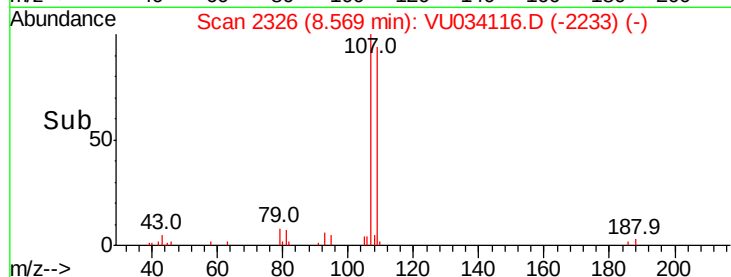
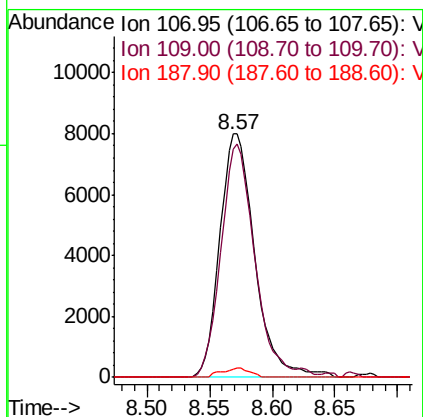
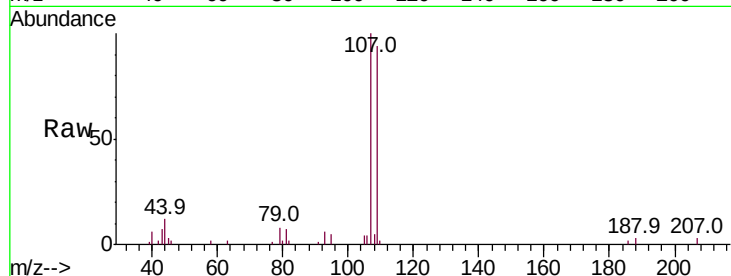




#50
 1,2-Dibromoethane
 Concen: 0.881 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

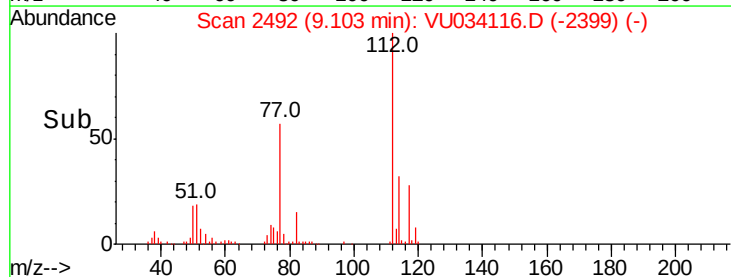
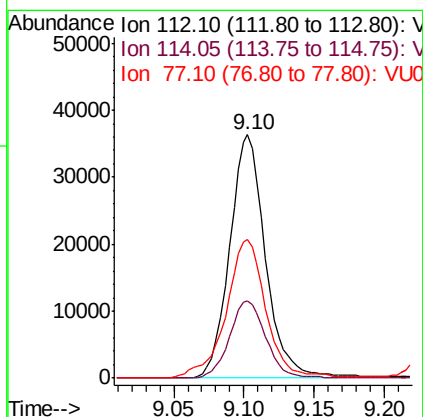
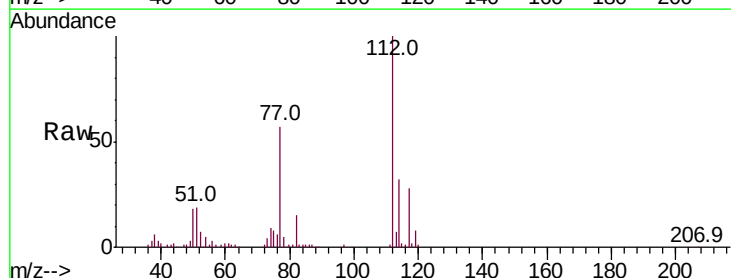
Instrument :
 MSVOA_U
 ClientSampled :

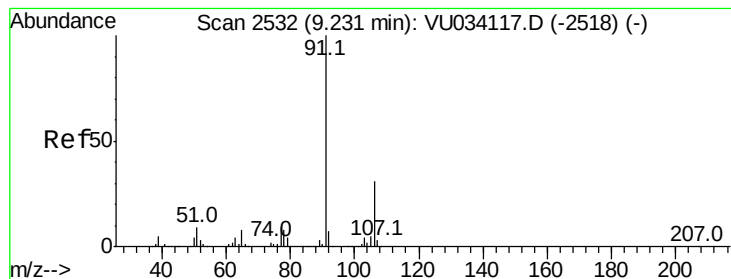
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	66.4	123.2
188	3.3	3.4	5.0#



#51
 Chlorobenzene
 Concen: 0.953 ug/L
 RT: 9.10 min Scan# 2492
 Delta R.T. -0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.6	42.0
77	57.2	46.3	69.5





#52

Ethylbenzene

Concen: 0.976 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

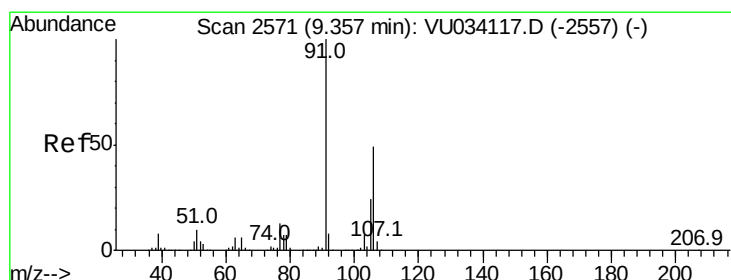
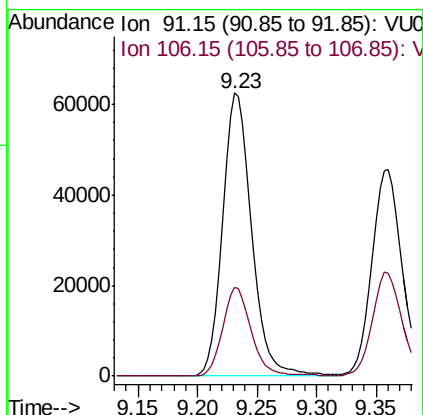
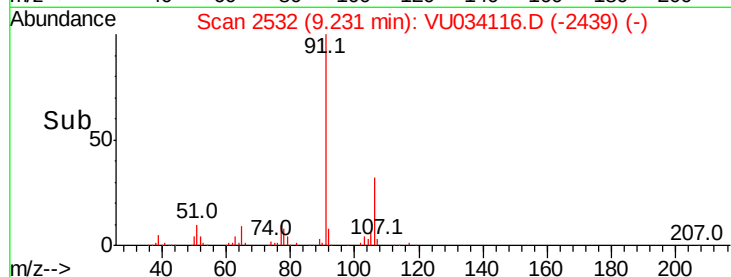
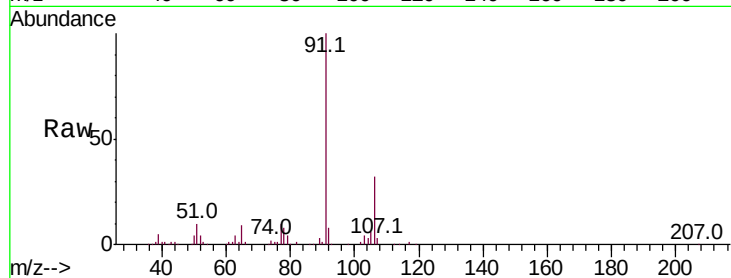
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 105980

Ion Ratio Lower Upper

91 100

106 31.6 21.4 39.8



#53

m,p-Xylene

Concen: 0.967 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU034116.D

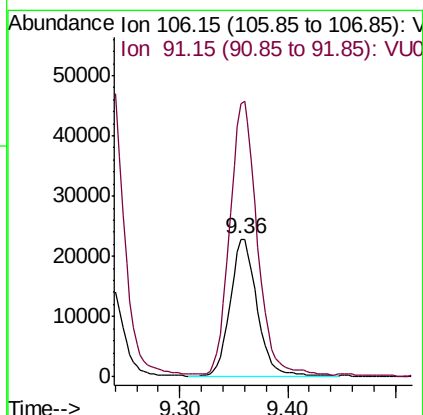
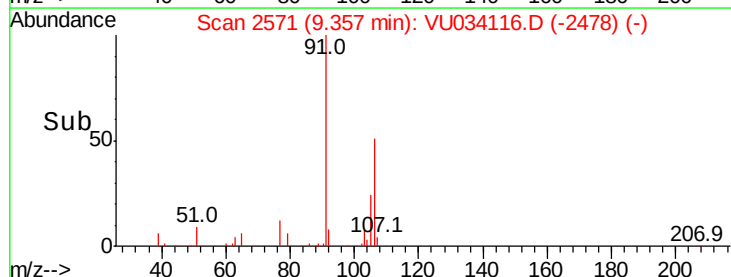
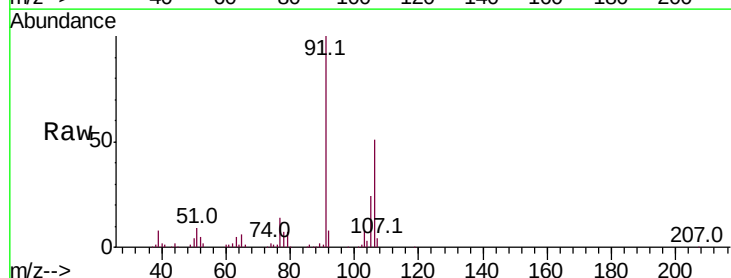
Acq: 31 Aug 2019 11:52

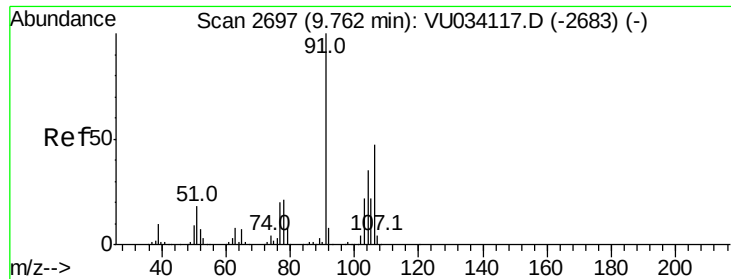
Tgt Ion:106 Resp: 39354

Ion Ratio Lower Upper

106 100

91 197.9 143.4 266.4





#54

o-Xylene

Concen: 0.997 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

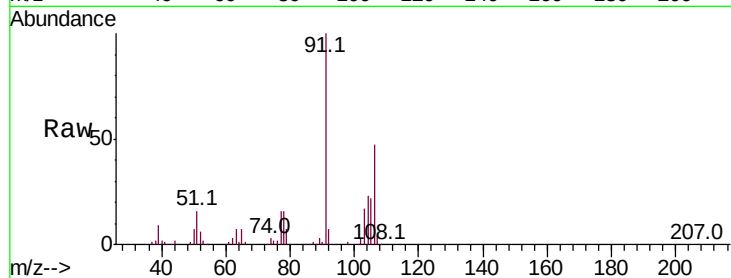
ClientSampled :

Tot Ion:106 Resp: 38434

Ion Ratio Lower Upper

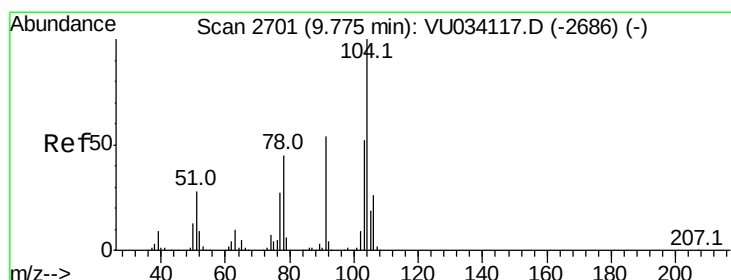
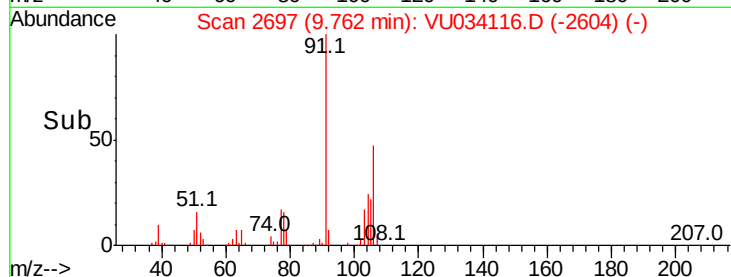
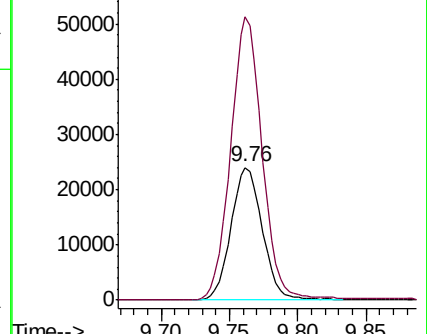
106 100

91 213.6 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.956 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU034116.D

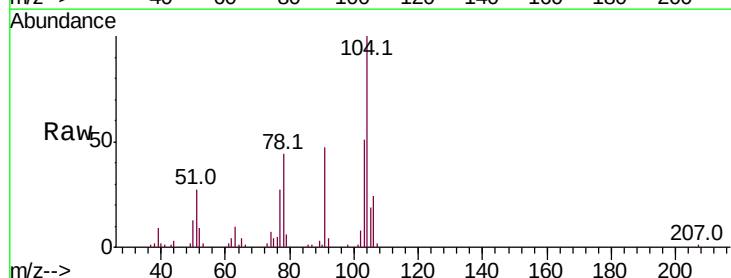
Acq: 31 Aug 2019 11:52

Tgt Ion:104 Resp: 62918

Ion Ratio Lower Upper

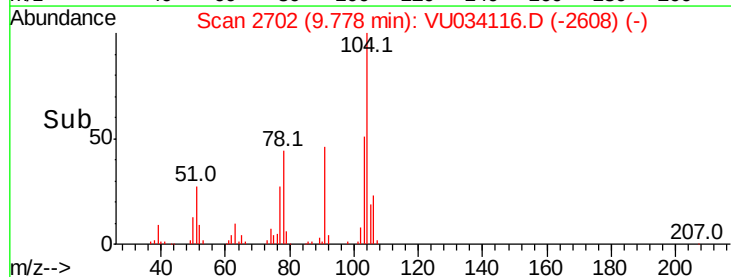
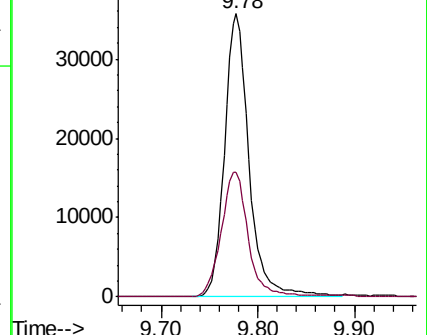
104 100

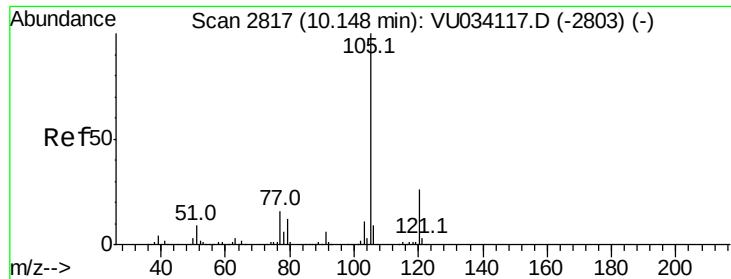
78 43.9 31.6 58.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.990 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

ClientSampleId :

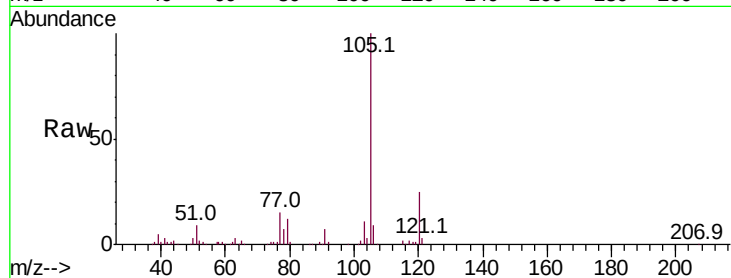
Tot Ion:105 Resp: 101463

Ion Ratio Lower Upper

105 100

120 26.5 21.0 31.4

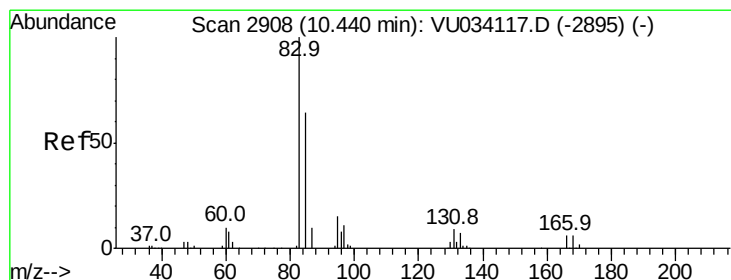
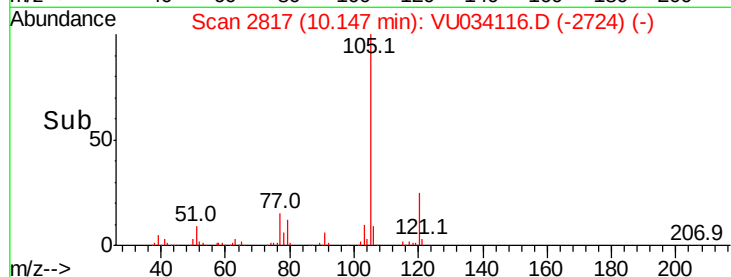
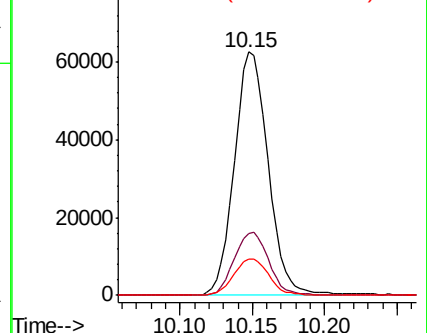
77 15.5 12.2 18.4



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: 0.842 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

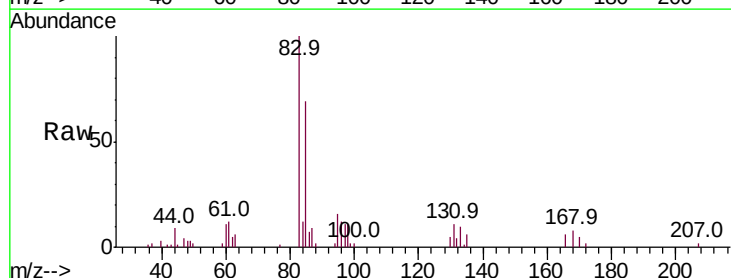
Tgt Ion: 83 Resp: 20396

Ion Ratio Lower Upper

83 100

85 69.4 45.2 84.0

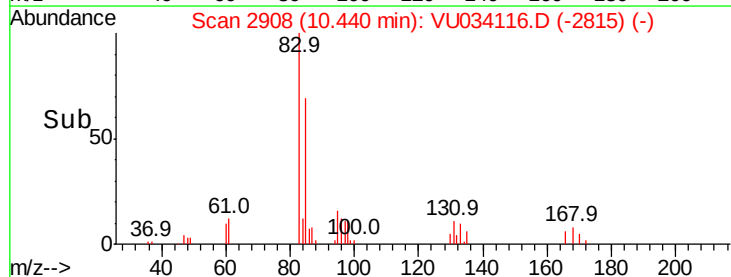
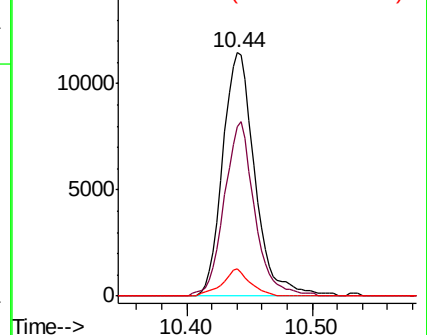
131 11.0 7.9 11.9

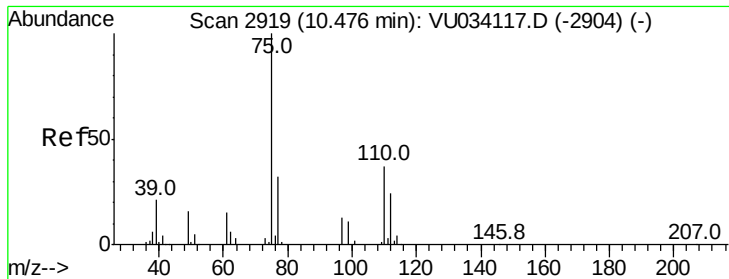


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.827 ug/L

RT: 10.48 min Scan# 2920

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

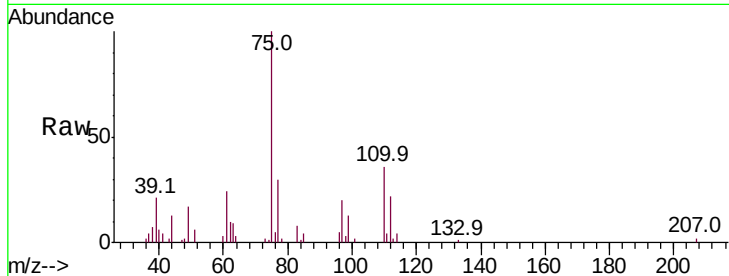
ClientSampleId :

Tot Ion: 75 Resp: 14280

Ion Ratio Lower Upper

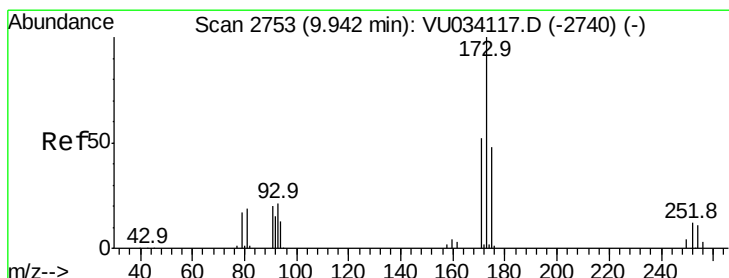
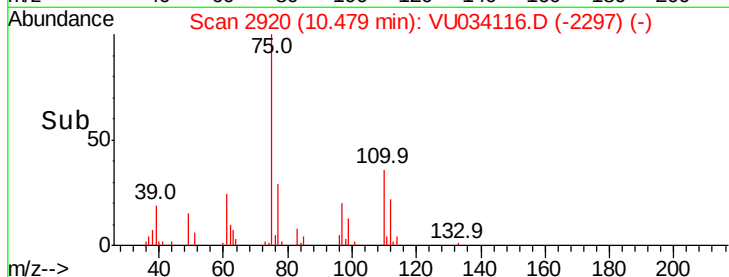
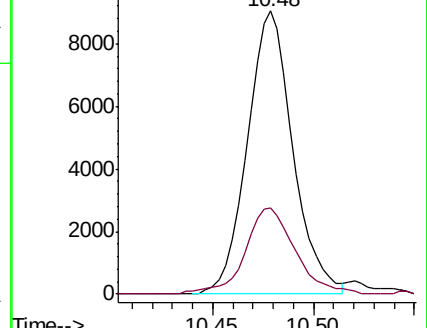
75 100

77 33.7 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU034117.D (-2904) (-)

Ion 77.00 (76.70 to 77.70): VU034117.D (-2904) (-)



#61

Bromoform

Concen: 0.860 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

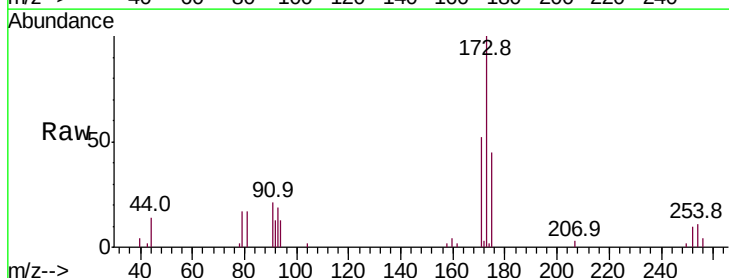
Tgt Ion:173 Resp: 11031

Ion Ratio Lower Upper

173 100

175 45.7 39.0 58.4

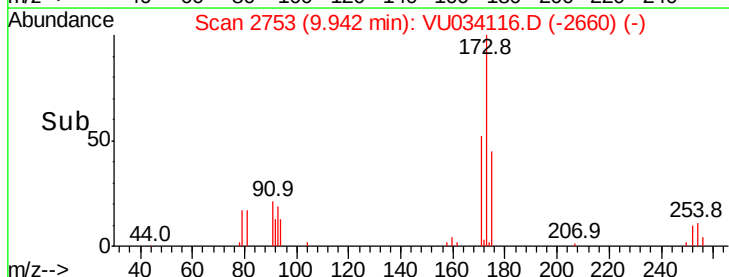
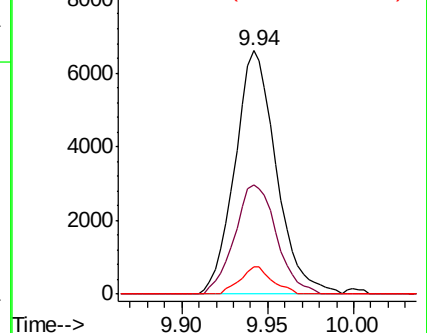
254 8.8 8.7 13.1

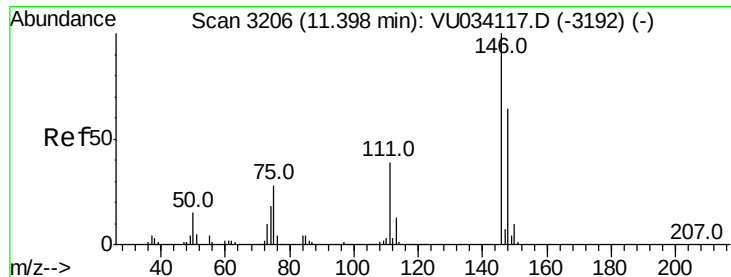


Abundance Ion 172.90 (172.60 to 173.60): VU034117.D (-2740) (-)

Ion 174.90 (174.60 to 175.60): VU034117.D (-2740) (-)

Ion 253.75 (253.45 to 254.45): VU034117.D (-2740) (-)

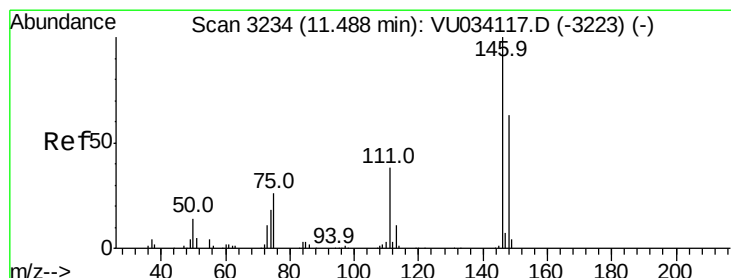
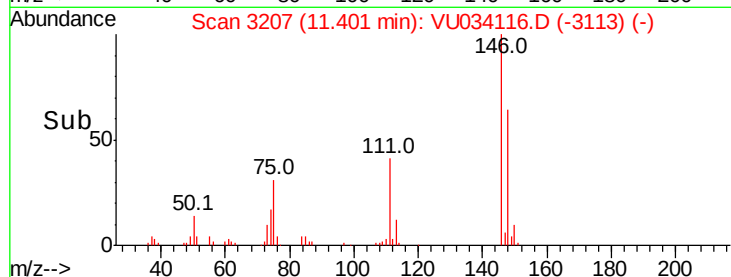
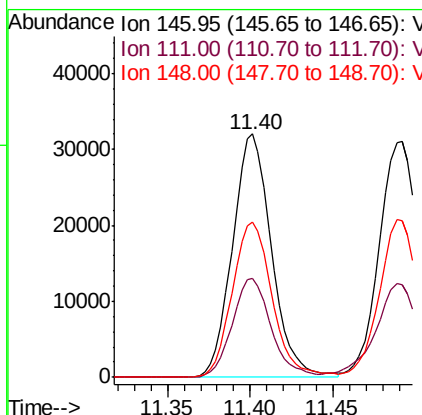
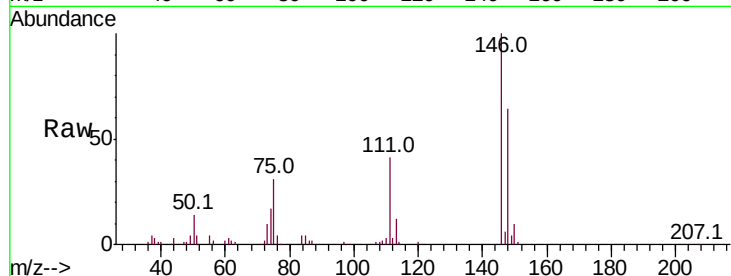




#62
 1,3-Dichlorobenzene
 Concen: 0.962 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

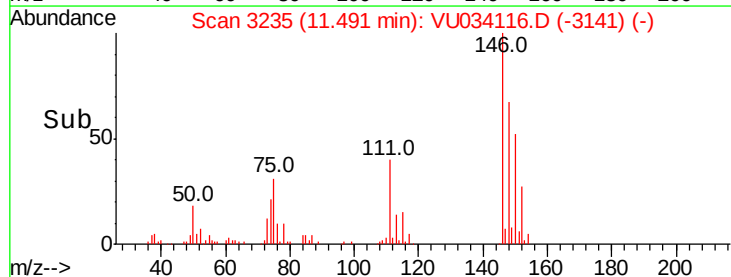
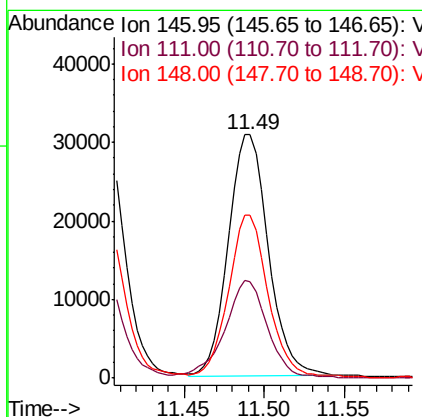
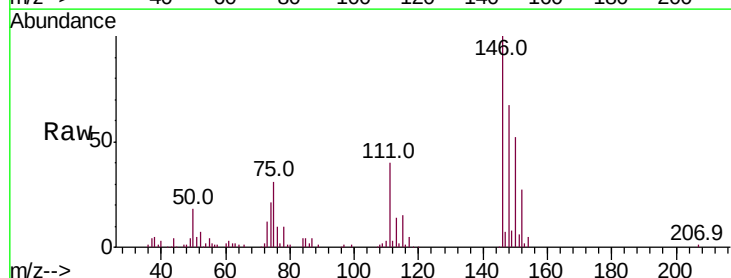
Instrument :
 MSVOA_U
 ClientSampleId :

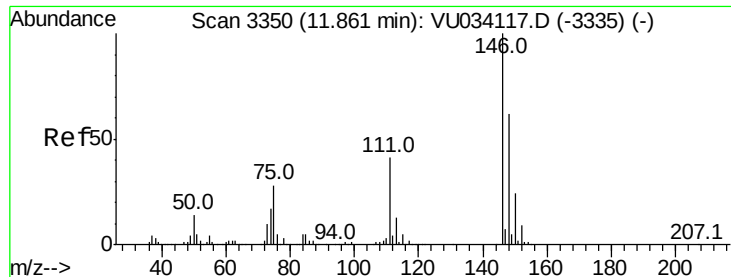
Tot Ion:146 Resp: 52489
 Ion Ratio Lower Upper
 146 100
 111 40.8 27.6 51.4
 148 64.0 44.9 83.5



#63
 1,4-Dichlorobenzene
 Concen: 0.931 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

Tgt Ion:146 Resp: 52562
 Ion Ratio Lower Upper
 146 100
 111 39.5 26.5 49.3
 148 66.8 44.0 81.8

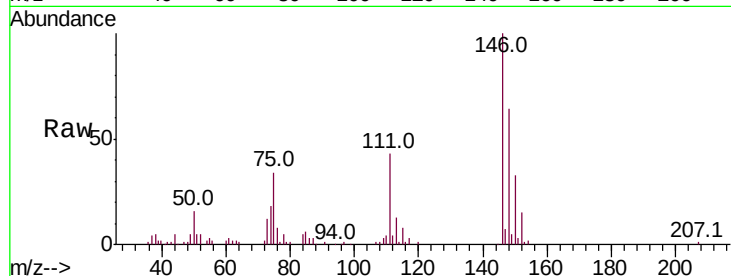




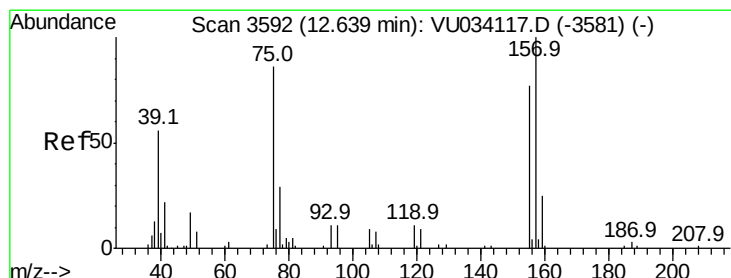
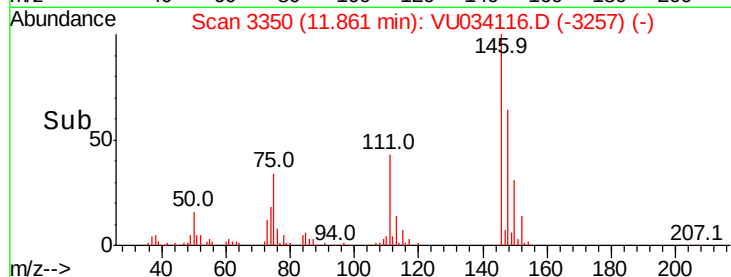
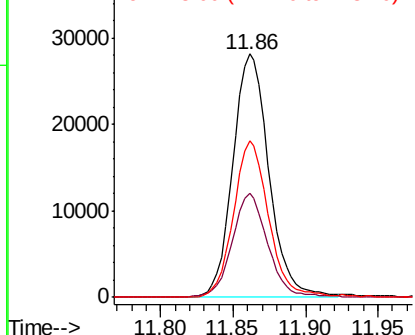
#65
 1,2-Dichlorobenzene
 Concen: 0.934 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	32.8	49.2
148	64.2	49.4	74.0

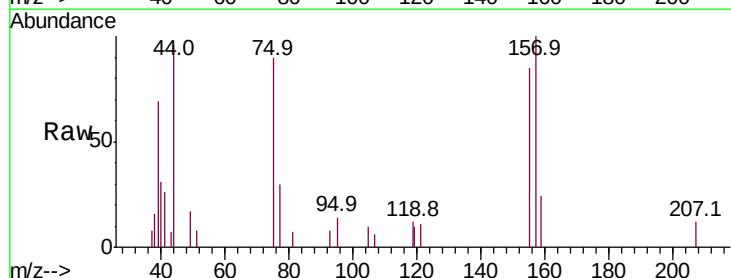


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

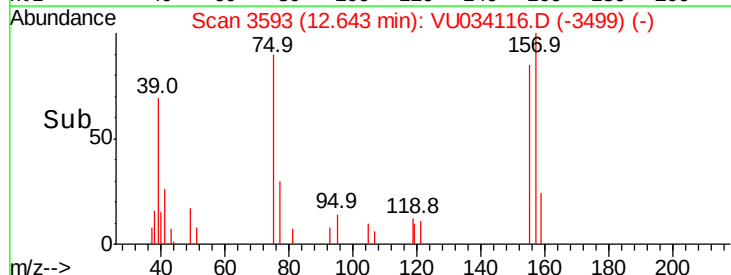
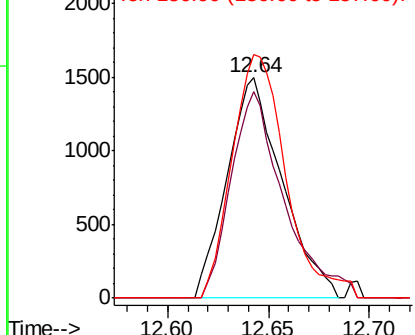


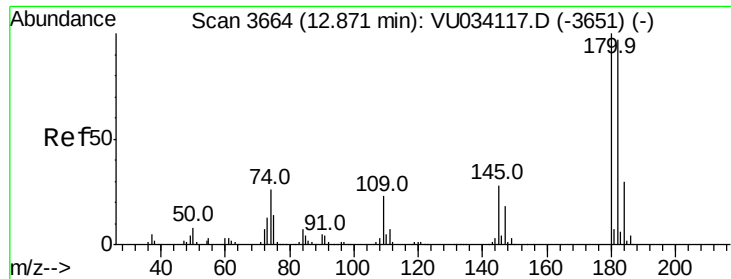
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.732 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.8	71.4	107.0
157	110.6	92.6	138.8



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

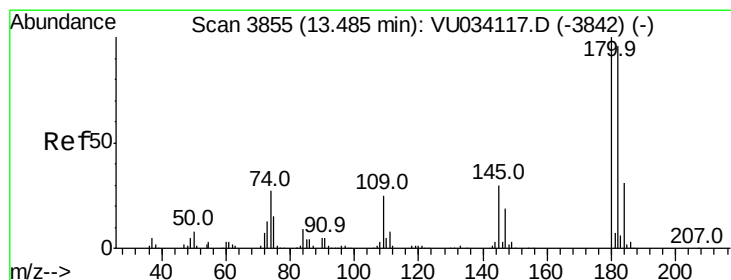
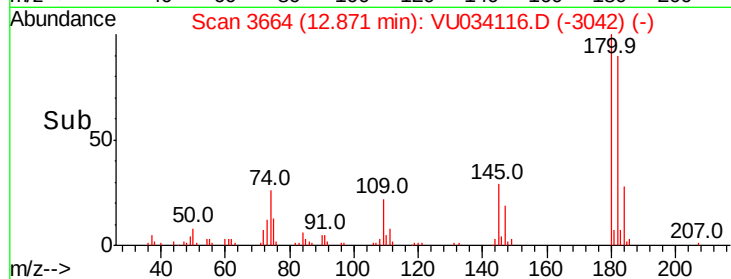
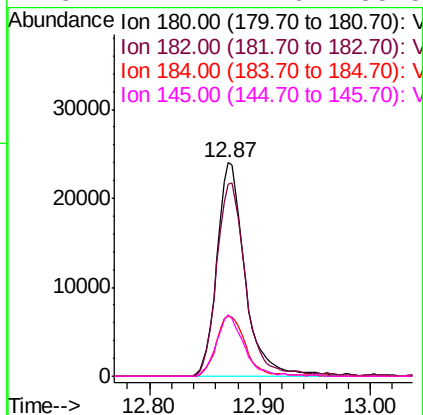
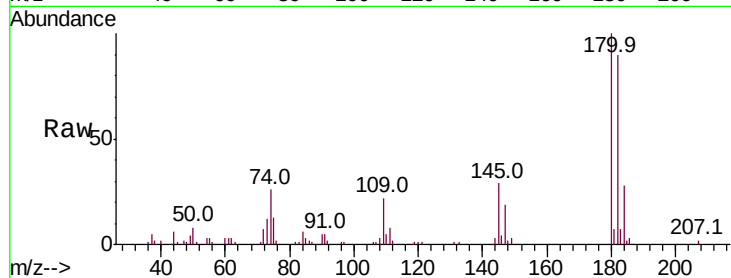




#67
 1,3,5-Trichlorobenzene
 Concen: 0.987 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. -0.00 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

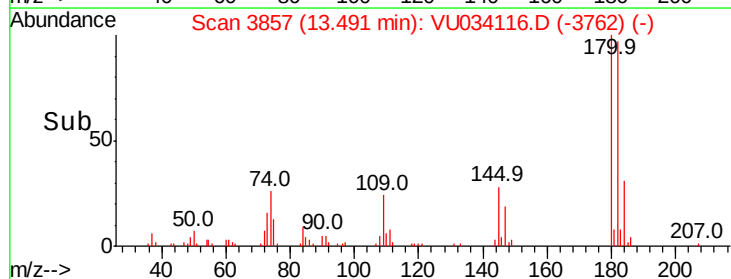
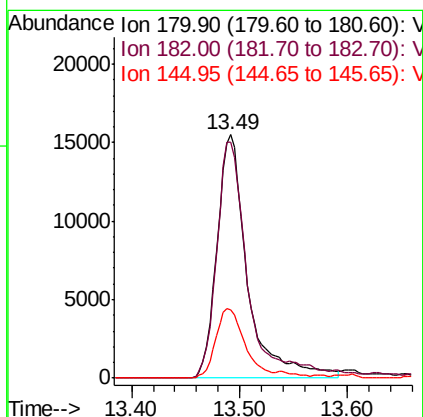
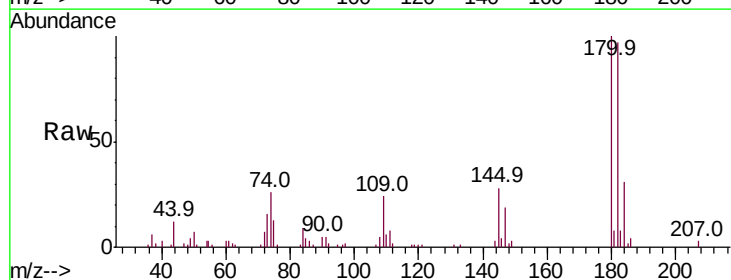
Instrument :
 MSVOA_U
 ClientSampleId :

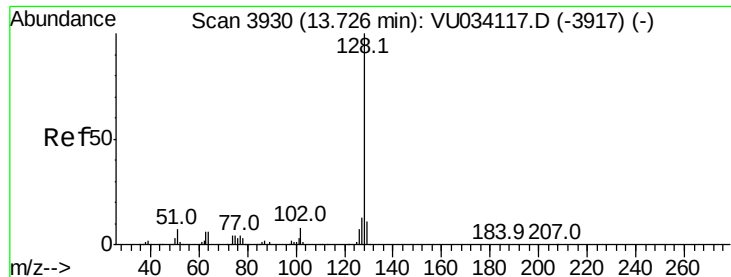
Tot Ion:	180	Resp:	42275
Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.0	115.6
184	29.7	24.3	36.5
145	27.4	22.6	33.8



#68
 1,2,4-trichlorobenzene
 Concen: 0.956 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.01 min
 Lab File: VU034116.D
 Acq: 31 Aug 2019 11:52

Tgt Ion:	180	Resp:	30712
Ion	Ratio	Lower	Upper
180	100		
182	97.7	75.1	112.7
145	27.1	23.7	35.5





#69

Naphthalene

Concen: 0.774 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.01 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

Instrument :

MSVOA_U

ClientSampled :

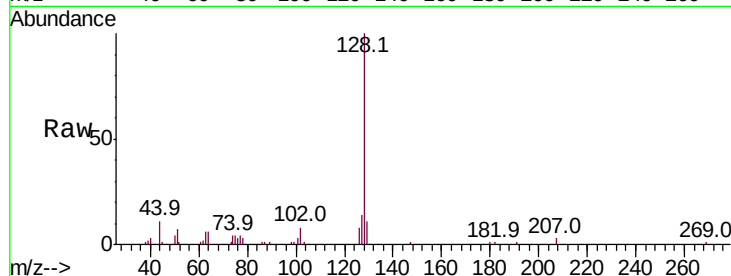
Tot Ion:128 Resp: 38428

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

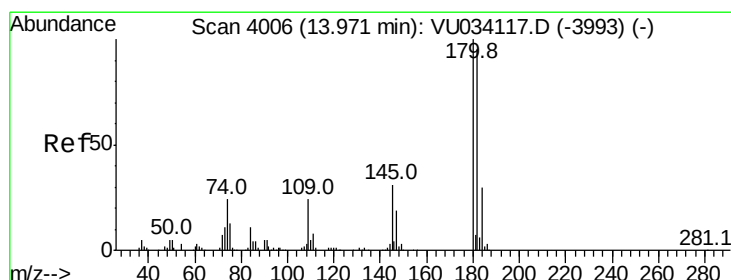
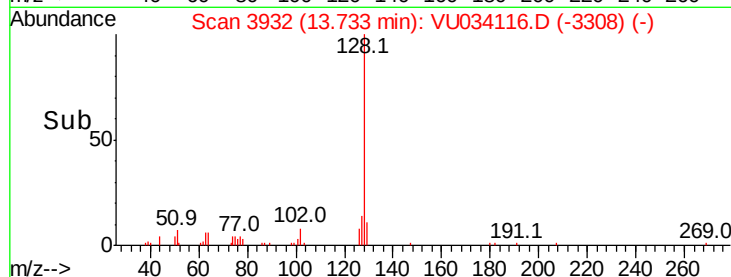
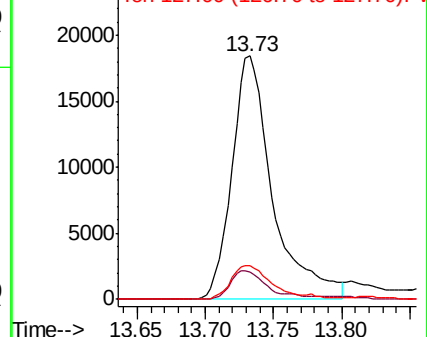
127 13.5 10.3 15.5



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: 0.916 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU034116.D

Acq: 31 Aug 2019 11:52

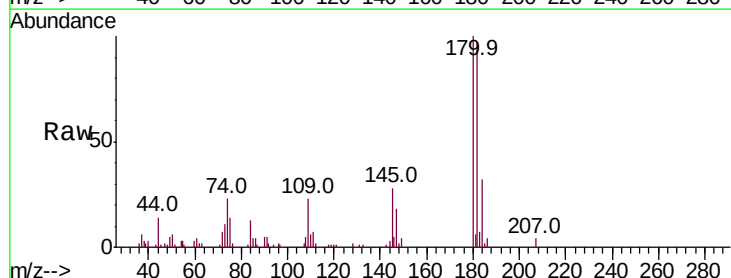
Tgt Ion:180 Resp: 28075

Ion Ratio Lower Upper

180 100

182 95.6 76.8 115.2

145 30.0 24.6 37.0



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

