

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080819\
 Data File : VU033631.D
 Acq On : 08 Aug 2019 12:26
 Operator : JC/SP
 Sample : VSTD10034
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 08 15:28:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 15:24:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	303083	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	306020	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	171823	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	340431	152.00	ug/L	0.00
7) Chloroethane-d5	1.67	69	283052	117.59	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	552180	133.30	ug/L	0.00
21) 2-Butanone-d5	4.14	46	526321	296.15	ug/L	0.00
24) Chloroform-d	4.62	84	566221	138.10	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	358206	136.78	ug/L	0.00
32) Benzene-d6	5.32	84	1154735	137.30	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	366575	137.27	ug/L	0.00
41) Toluene-d8	7.55	98	1094935	140.15	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	186330	139.54	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	406549	309.26	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	574172	140.51	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	464085	135.38	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	266243	101.871	ug/L 98
3) Chloromethane	1.32	50	279095	98.535	ug/L 100
5) Vinyl chloride	1.40	62	314204	100.769	ug/L 100
6) Bromomethane	1.61	94	197448	84.112	ug/L 98
8) Chloroethane	1.68	64	193596	79.329	ug/L 99
9) Trichlorofluoromethane	1.87	101	414510	102.226	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	212348	102.711	ug/L 99
12) 1,1-Dichloroethene	2.27	96	206041	103.210	ug/L 91
13) Acetone	2.31	43	303715	188.598	ug/L 99
14) Carbon disulfide	2.46	76	616277	99.796	ug/L 100
15) Methyl Acetate	2.60	43	270177	103.859	ug/L 99
16) Methylene chloride	2.68	84	243877	104.394	ug/L 98
17) trans-1,2-Dichloroethene	2.96	96	217612	101.996	ug/L 98
18) Methyl tert-butyl Ether	2.98	73	707411	106.979	ug/L 99
19) 1,1-Dichloroethane	3.42	63	417704	103.381	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	249985	105.980	ug/L 97
22) 2-Butanone	4.23	43	426807	213.329	ug/L 100
23) Bromochloromethane	4.52	128	130310	105.582	ug/L 97
25) Chloroform	4.65	83	432590	103.205	ug/L 97
27) 1,2-Dichloroethane	5.38	62	342189	104.981	ug/L 100
29) Cyclohexane	4.97	56	364399	104.290	ug/L 99
30) 1,1,1-Trichloroethane	4.89	97	366691	100.623	ug/L 99
31) Carbon tetrachloride	5.11	117	331685	103.494	ug/L 99
33) Benzene	5.37	78	940739	102.029	ug/L 100
34) Trichloroethene	6.16	95	241462	101.627	ug/L 100
35) Methylcyclohexane	6.40	83	391815	105.179	ug/L 99
37) 1,2-Dichloropropane	6.41	63	252856	100.312	ug/L 100
38) Bromodichloromethane	6.74	83	327738	103.022	ug/L 99
39) cis-1,3-Dichloropropene	7.25	75	416379	108.403	ug/L 99
40) 4-Methyl-2-pentanone	7.44	43	771231	213.106	ug/L 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080819\
 Data File : VU033631.D
 Acq On : 08 Aug 2019 12:26
 Operator : JC/SP
 Sample : VSTD10034
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 08 15:28:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 15:24:56 2019
 Response via : Initial Calibration

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

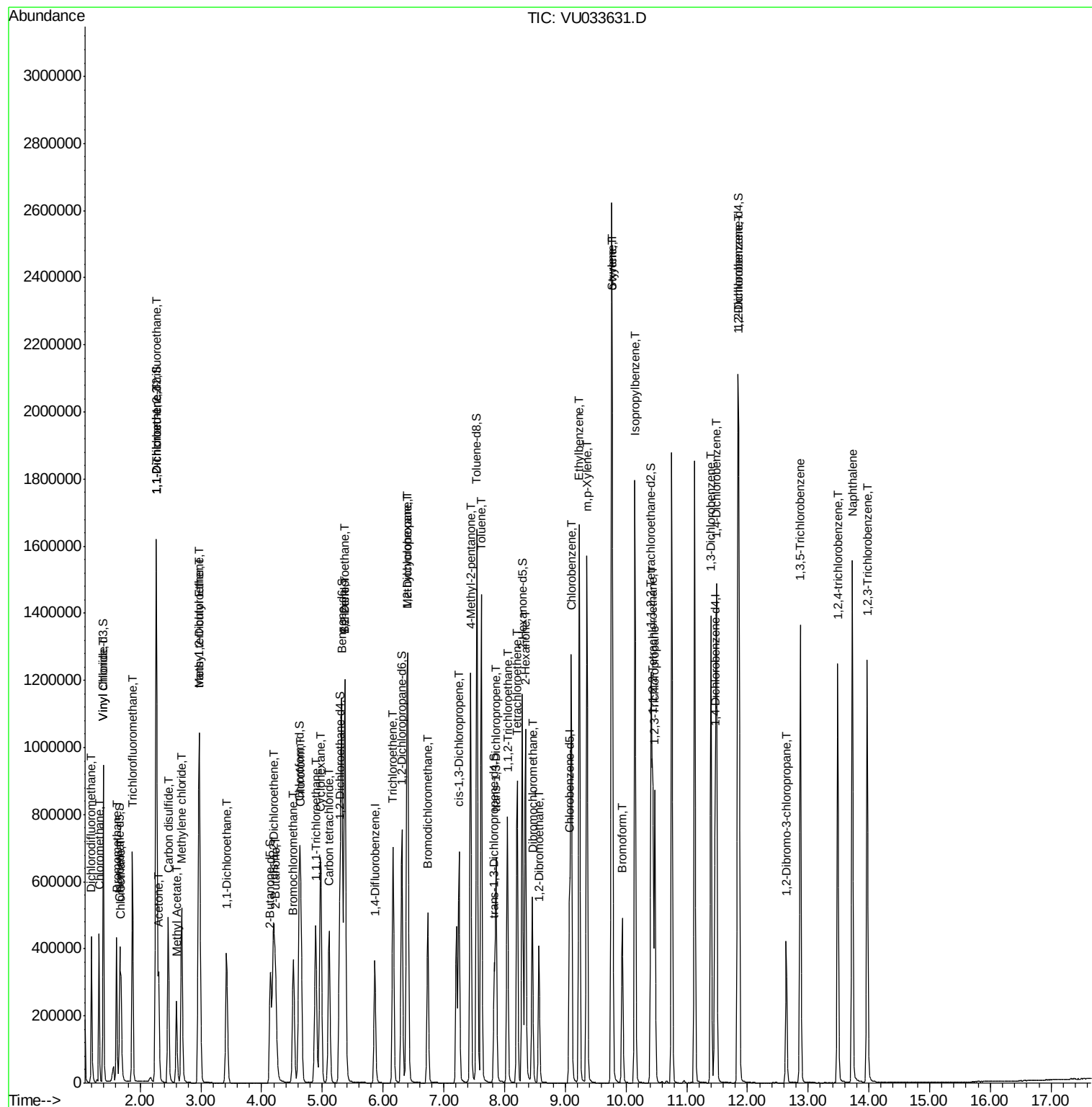
42) Toluene	7.62	91	1043528	105.938	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	375010	108.130	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	239687	101.312	ug/L	99
46) Tetrachloroethene	8.21	164	200354	103.142	ug/L	97
48) 2-Hexanone	8.34	43	637581	219.450	ug/L	98
49) Dibromochloromethane	8.46	129	281214	105.665	ug/L	97
50) 1,2-Dibromoethane	8.57	107	267624	103.210	ug/L #	99
51) Chlorobenzene	9.10	112	669458	104.030	ug/L	99
52) Ethylbenzene	9.23	91	1150932	107.780	ug/L	99
53) m,p-Xylene	9.36	106	445988	109.661	ug/L	99
54) o-xylene	9.76	106	437880	110.119	ug/L	99
55) Styrene	9.77	104	765481	112.848	ug/L	100
56) Isopropylbenzene	10.15	105	1143139	111.211	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	445371	105.653	ug/L	100
59) 1,2,3-Trichloropropane	10.48	75	349827	105.542	ug/L	99
61) Bromoform	9.94	173	222432	102.684	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	568481	104.274	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	571727	102.602	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	573267	104.944	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	105549	103.033	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	431705	103.321	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	386844	108.629	ug/L	99
69) Naphthalene	13.73	128	1220958	117.799	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	399965	105.412	ug/L	99

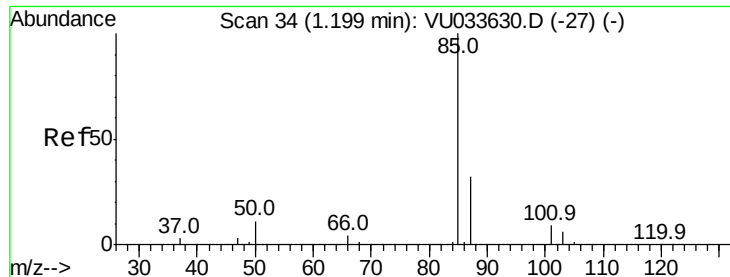
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080819\
Data File : VU033631.D
Acq On : 08 Aug 2019 12:26
Operator : JC/SP
Sample : VSTD10034
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampled :

Quant Time: Aug 08 15:28:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 08 15:24:56 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 101.871 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

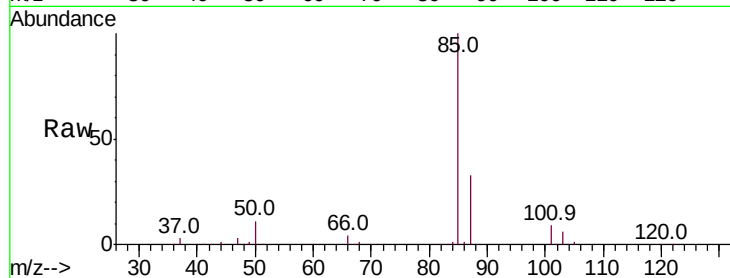
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 266243

Ion Ratio Lower Upper

85 100

87 32.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033631.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033631.D (-1) (-)

1.20

250000

200000

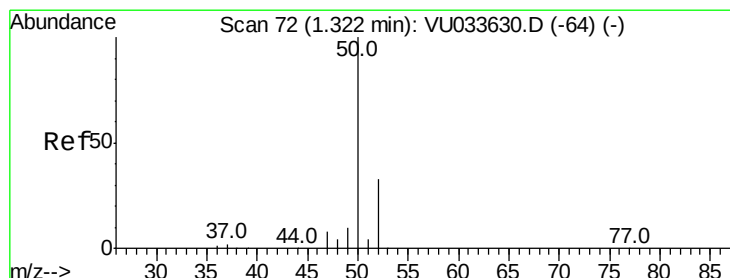
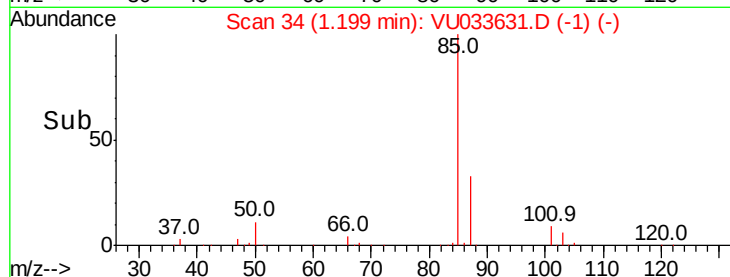
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 98.535 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033631.D

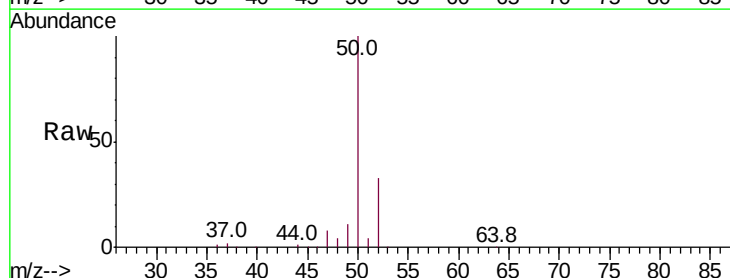
Acq: 08 Aug 2019 12:26

Tgt Ion: 50 Resp: 279095

Ion Ratio Lower Upper

50 100

52 33.4 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033631.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033631.D (-1) (-)

1.32

300000

250000

200000

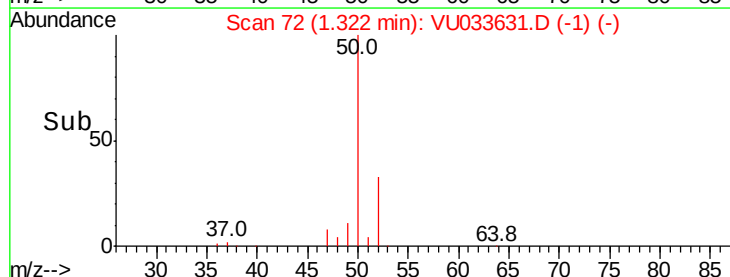
150000

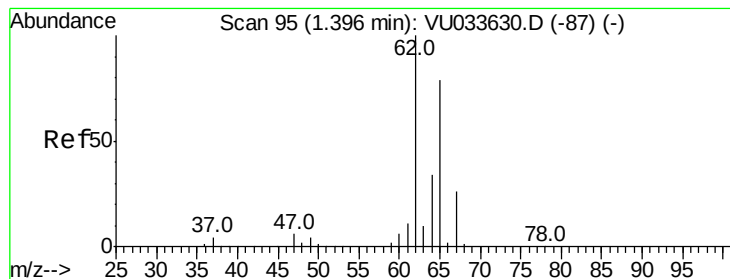
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 100.769 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

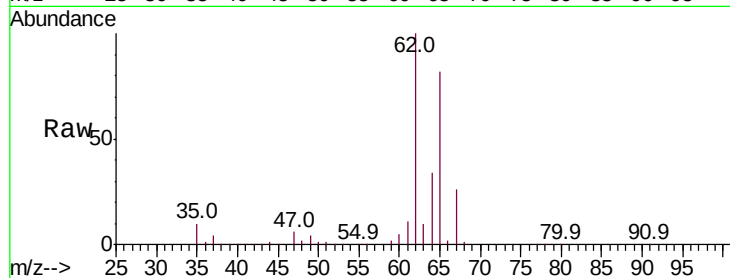
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 314204

Ion Ratio Lower Upper

62 100

64 33.7 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU033631.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033631.D (-87) (-)

1.40

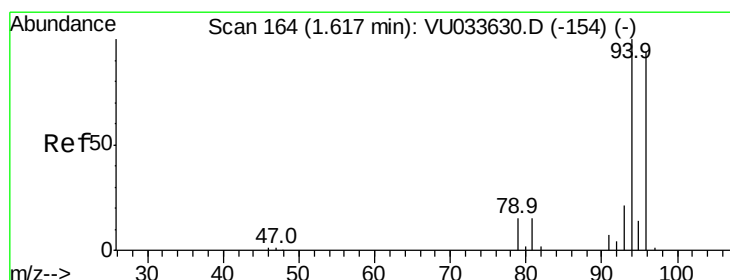
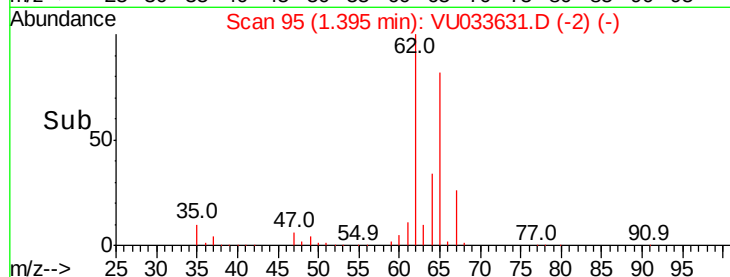
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 84.112 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU033631.D

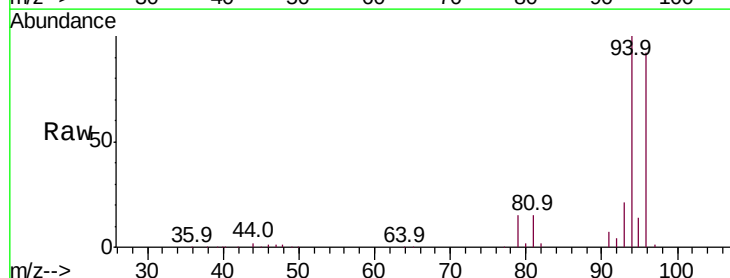
Acq: 08 Aug 2019 12:26

Tgt Ion: 94 Resp: 197448

Ion Ratio Lower Upper

94 100

96 92.1 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU033631.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033631.D (-154) (-)

1.61

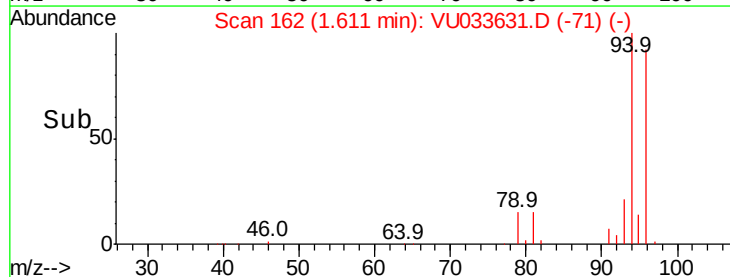
150000

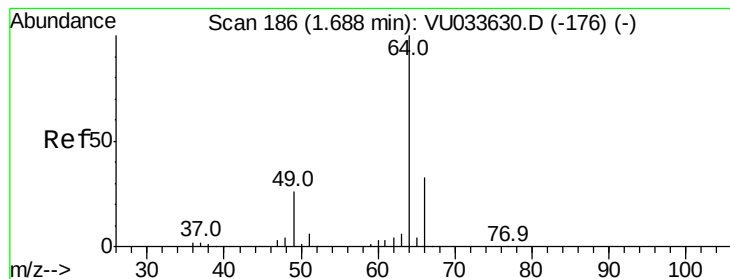
100000

50000

0

Time-->





#8

Chloroethane

Concen: 79.329 ug/L

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

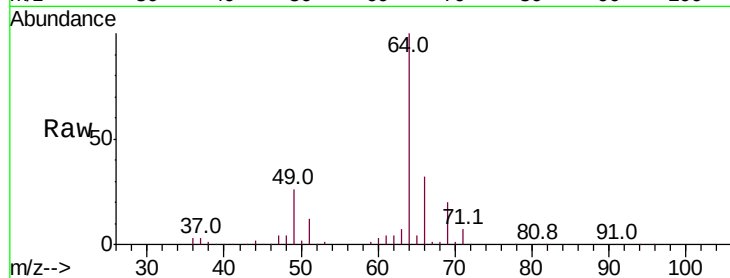
ClientSampleId :

Tot Ion: 64 Resp: 193596

Ion Ratio Lower Upper

64 100

66 32.2 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU033631.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033631.D (-176) (-)

1.68

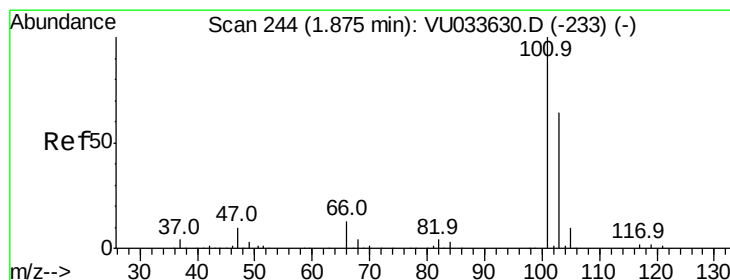
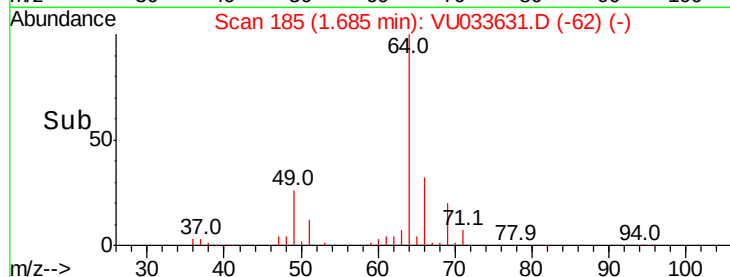
150000

100000

50000

0

Time--> 1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 102.226 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033631.D

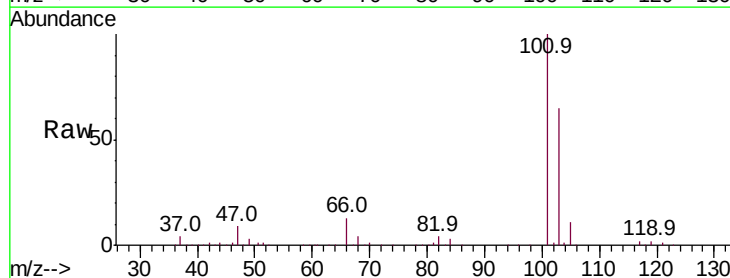
Acq: 08 Aug 2019 12:26

Tgt Ion:101 Resp: 414510

Ion Ratio Lower Upper

101 100

103 64.4 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU033631.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033631.D (-233) (-)

1.87

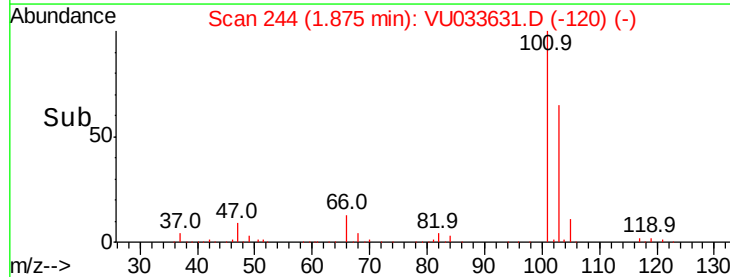
300000

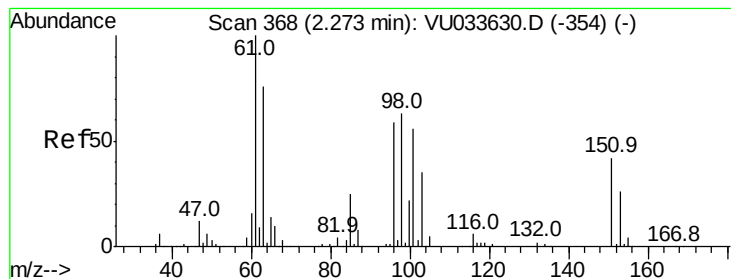
200000

100000

0

Time--> 1.80 1.85 1.90 1.95





#10

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

Concen: 102.711 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

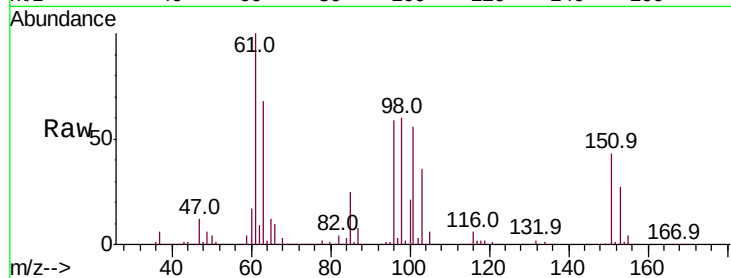
Tot Ion:101 Resp: 212348

Ion Ratio Lower Upper

101 100

85 44.0 34.8 52.2

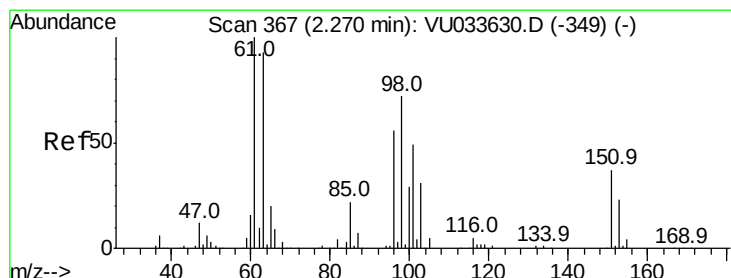
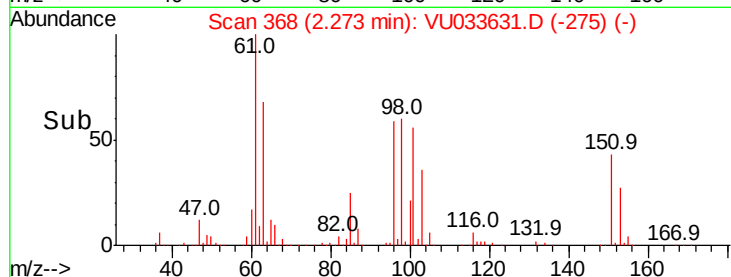
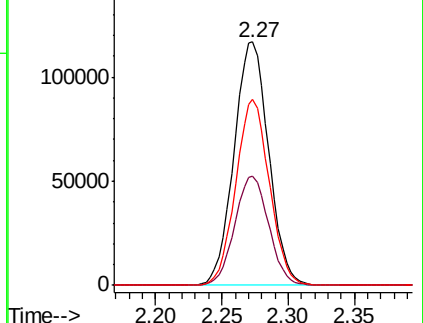
151 74.2 60.4 90.6



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: 103.210 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

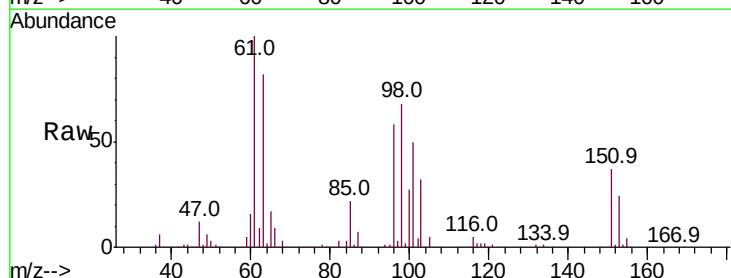
Tgt Ion: 96 Resp: 206041

Ion Ratio Lower Upper

96 100

61 173.7 124.0 230.2

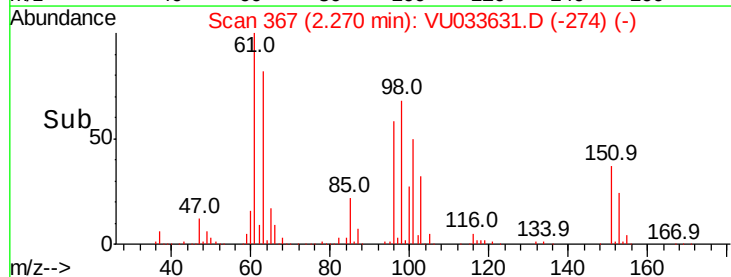
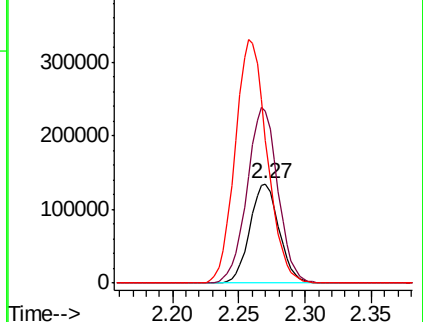
63 143.3 114.9 213.5

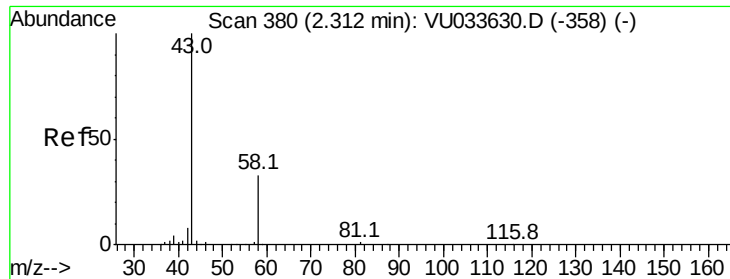


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 188.598 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

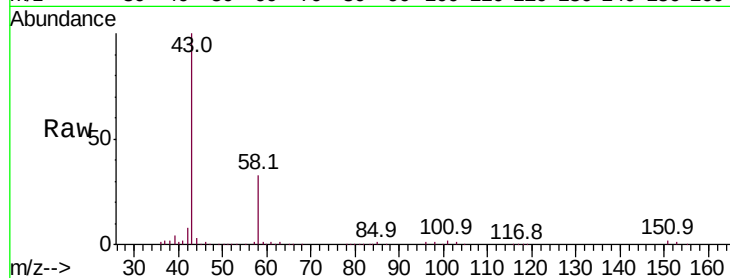
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 303715

Ion Ratio Lower Upper

43 100

58 33.2 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU033631.D (-378) (-)

Ion 58.00 (57.70 to 58.70): VU033631.D (-378) (-)

2.31

200000

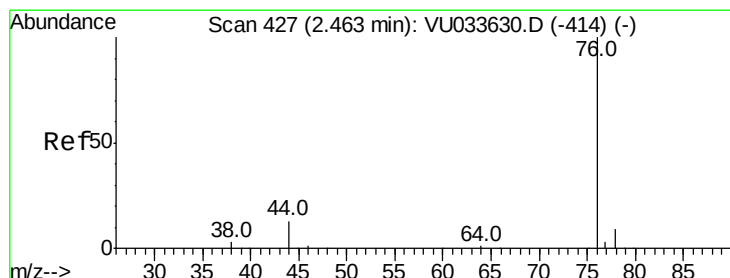
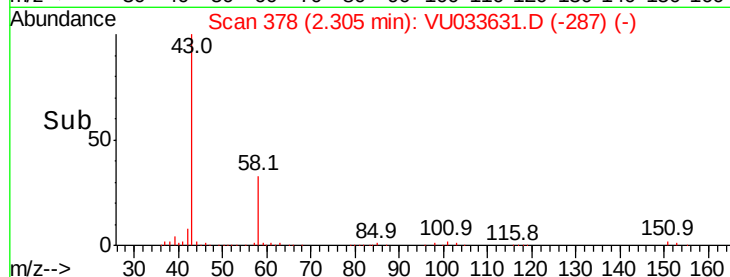
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 99.796 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033631.D

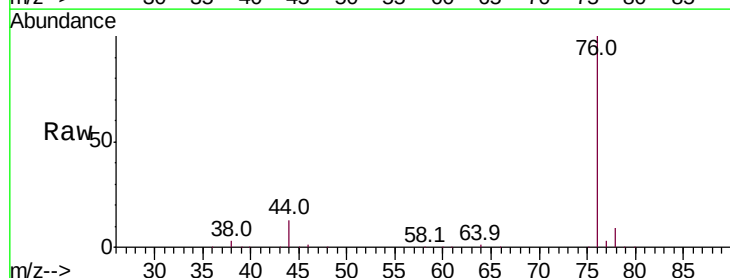
Acq: 08 Aug 2019 12:26

Tgt Ion: 76 Resp: 616277

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU033631.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VU033631.D (-427) (-)

2.46

400000

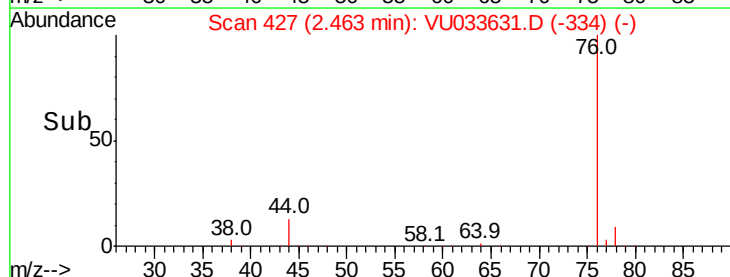
300000

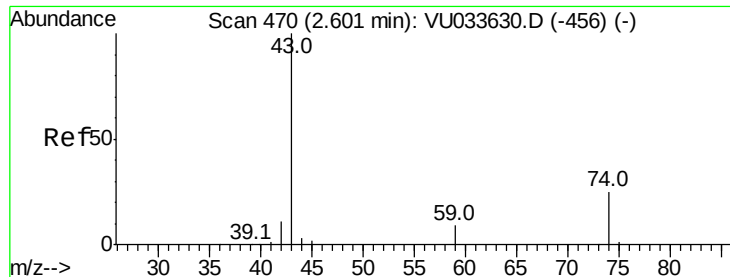
200000

100000

0

Time-->





#15

Methvl Acetate

Concen: 103.859 ug/L

RT: 2.60 min Scan# 469

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

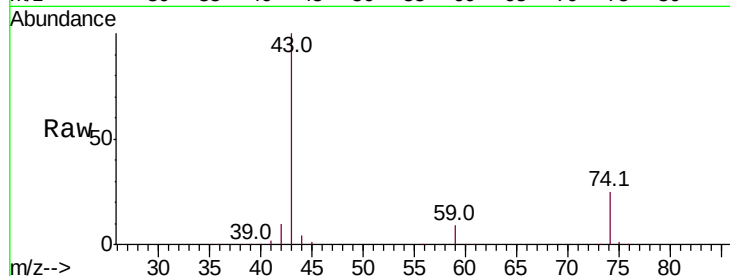
ClientSampleId :

Tot Ion: 43 Resp: 270177

Ion Ratio Lower Upper

43 100

74 24.8 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU033631.D (-456) (-)

Ion 74.00 (73.70 to 74.70): VU033631.D (-456) (-)

2.60

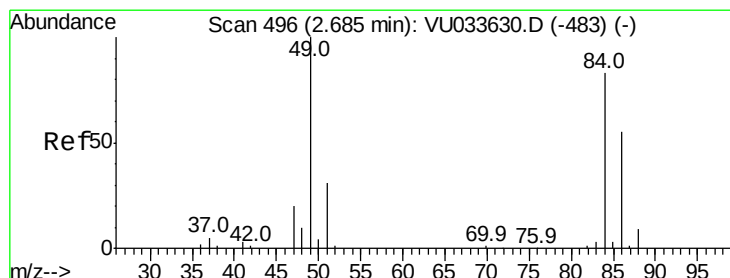
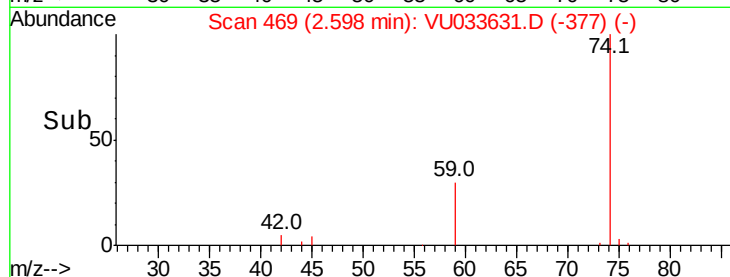
150000

100000

50000

0

Time--> 2.50 2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 104.394 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

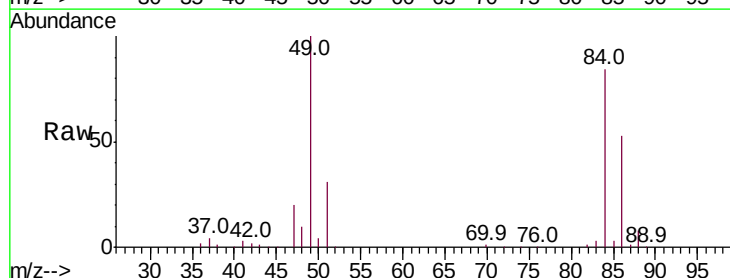
Tgt Ion: 84 Resp: 243877

Ion Ratio Lower Upper

84 100

86 63.1 46.0 85.4

49 119.0 84.4 156.8



Abundance Ion 84.00 (83.70 to 84.70): VU033631.D (-483) (-)

Ion 86.00 (85.70 to 86.70): VU033631.D (-483) (-)

Ion 49.00 (48.70 to 49.70): VU033631.D (-483) (-)

2.68

200000

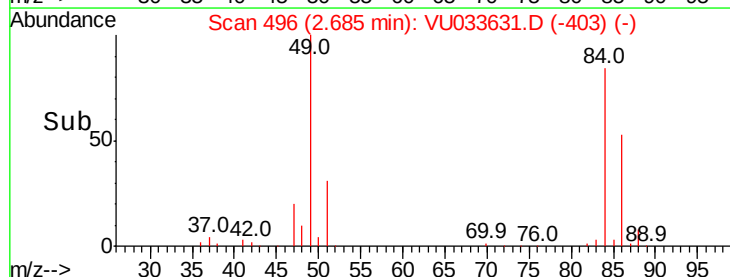
150000

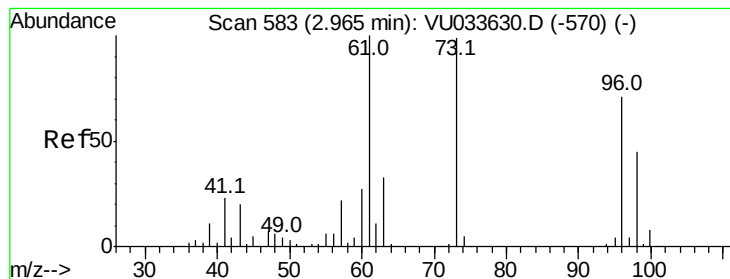
100000

50000

0

Time--> 2.60 2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 101.996 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampled :

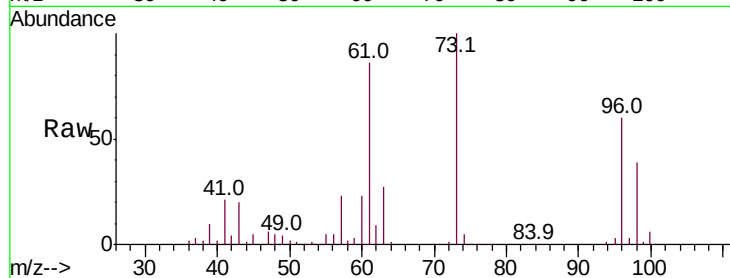
Tot Ion: 96 Resp: 217612

Ion Ratio Lower Upper

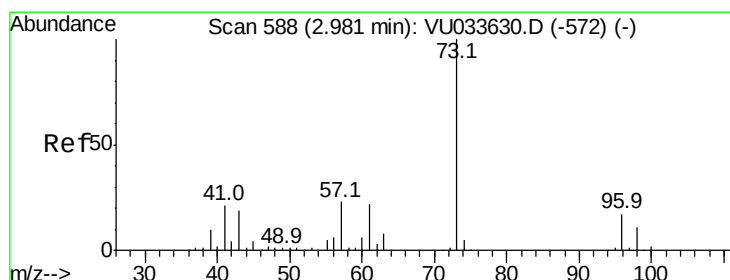
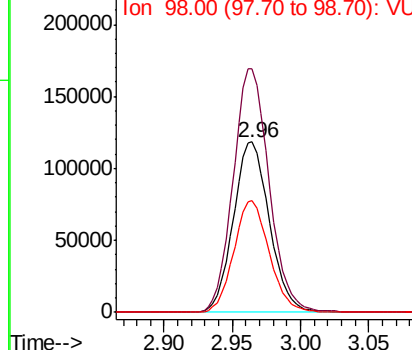
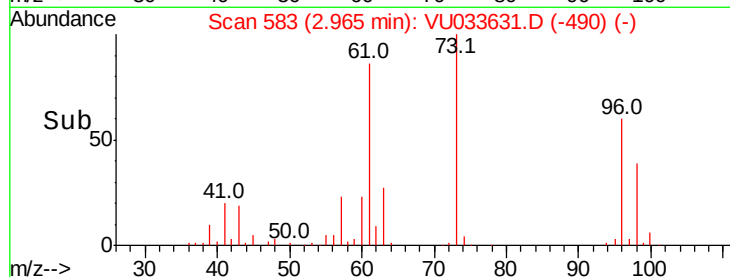
96 100

61 142.9 98.7 183.3

98 65.4 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 106.979 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

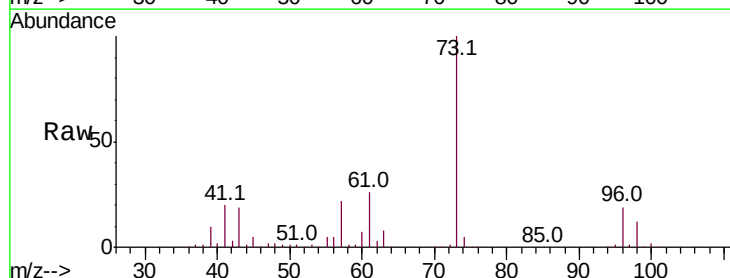
Tgt Ion: 73 Resp: 707411

Ion Ratio Lower Upper

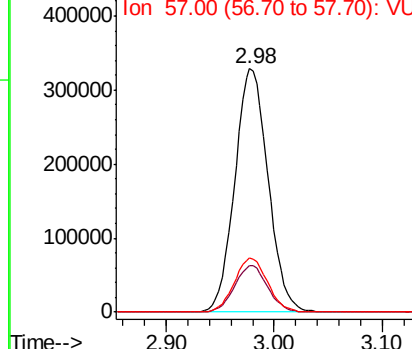
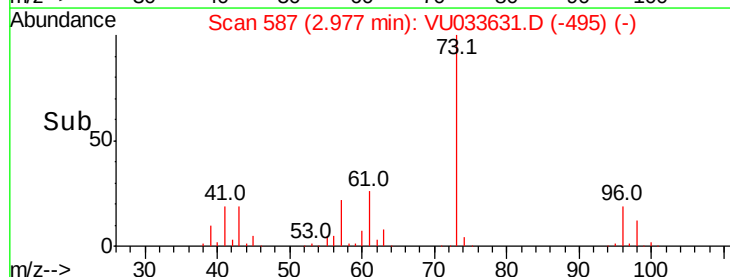
73 100

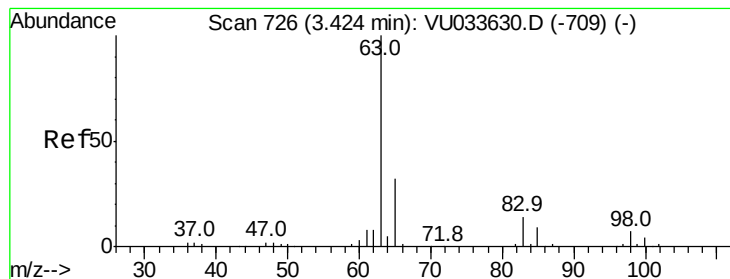
43 19.0 15.5 23.3

57 22.1 18.0 27.0



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 103.381 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :

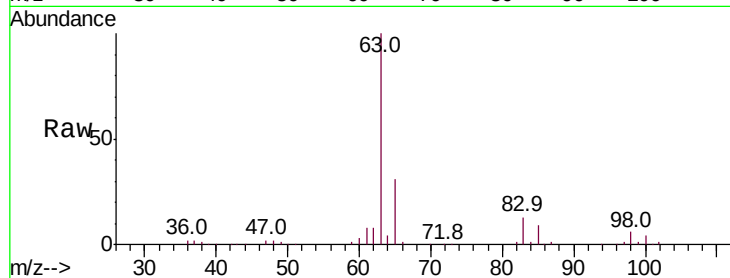
Tot Ion: 63 Resp: 417704

Ion Ratio Lower Upper

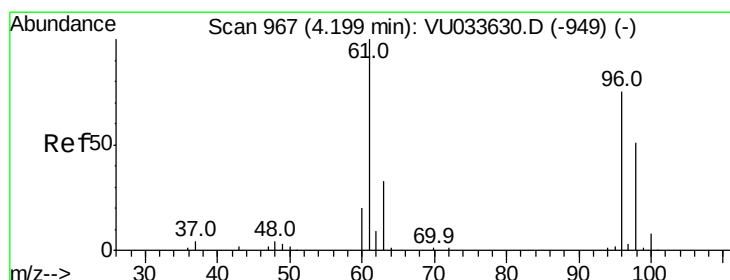
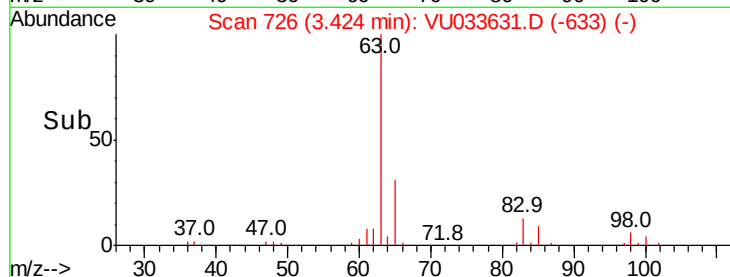
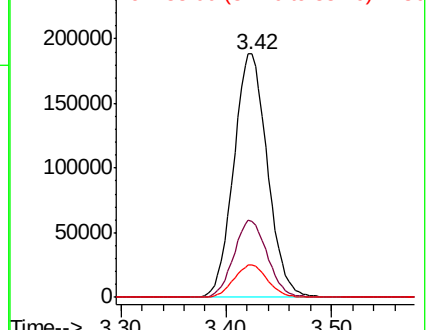
63 100

65 31.4 22.5 41.9

83 13.5 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 105.980 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

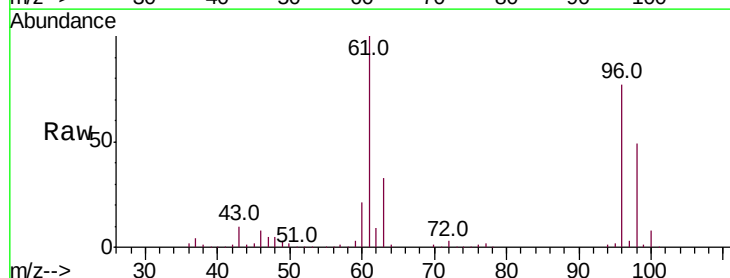
Tgt Ion: 96 Resp: 249985

Ion Ratio Lower Upper

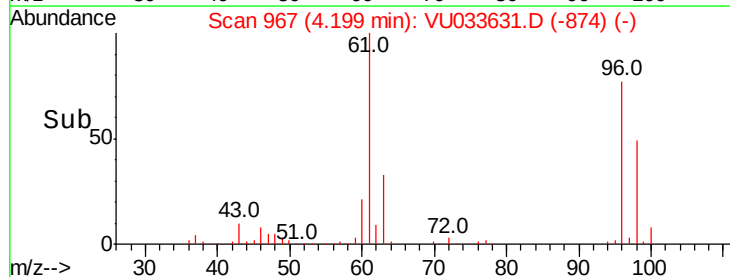
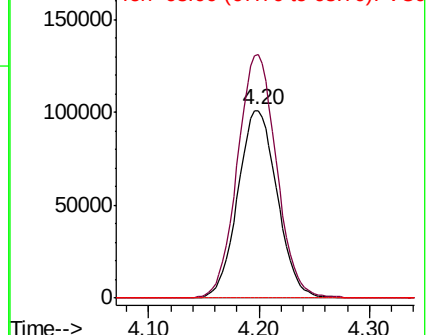
96 100

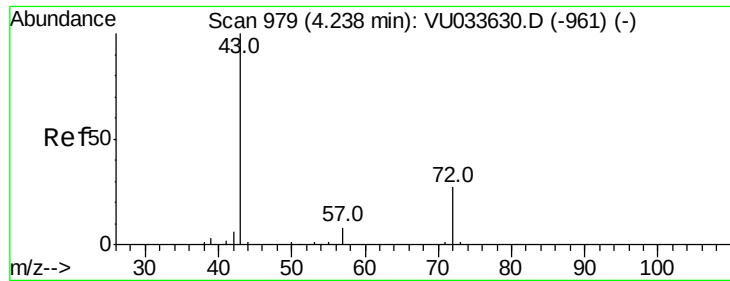
61 129.7 93.0 172.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 213.329 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

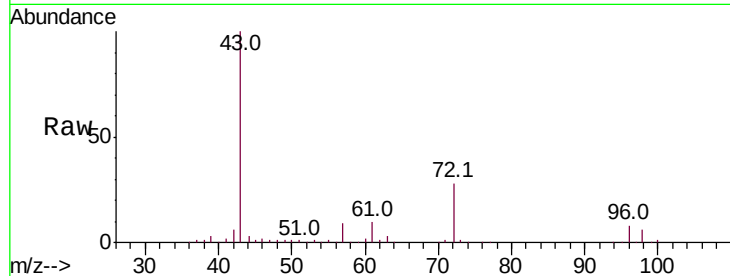
ClientSampleId :

Tot Ion: 43 Resp: 426807

Ion Ratio Lower Upper

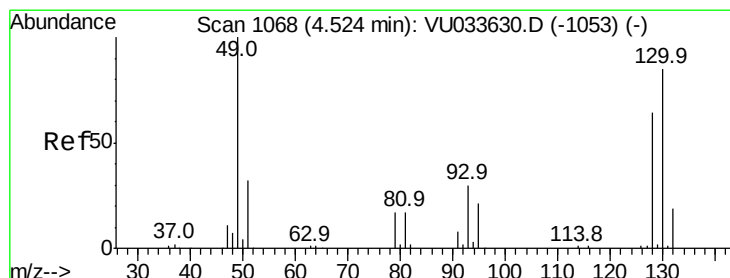
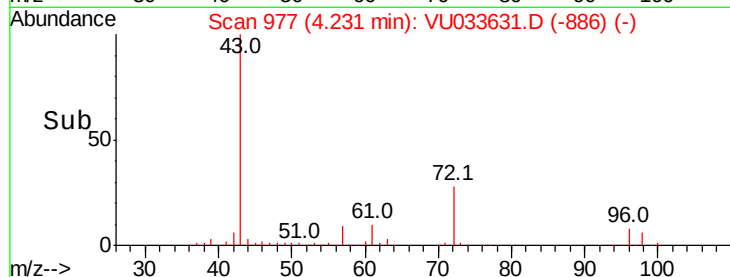
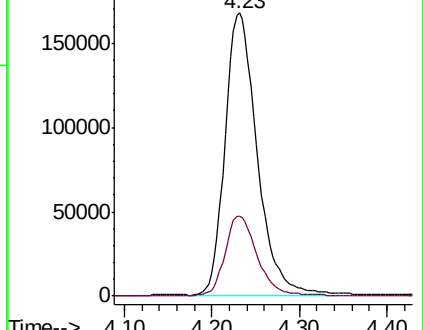
43 100

72 28.9 14.4 43.4



Abundance Ion 43.00 (42.70 to 43.70): VU033631.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU033631.D (-961) (-)



#23

Bromochloromethane

Concen: 105.582 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Tgt Ion:128 Resp: 130310

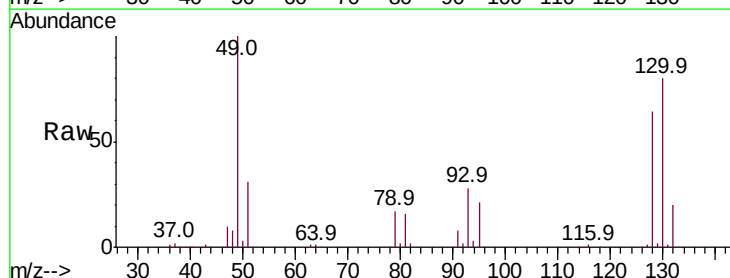
Ion Ratio Lower Upper

128 100

49 156.9 109.8 204.0

130 125.4 93.0 172.8

51 48.8 39.8 59.8

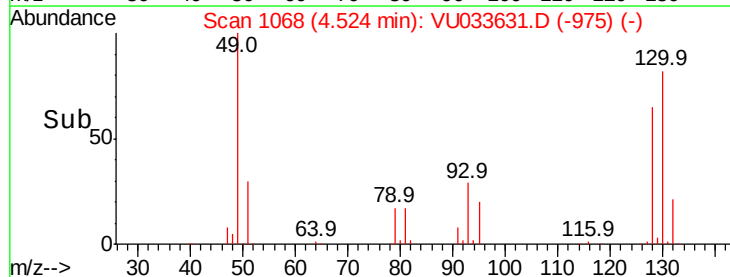
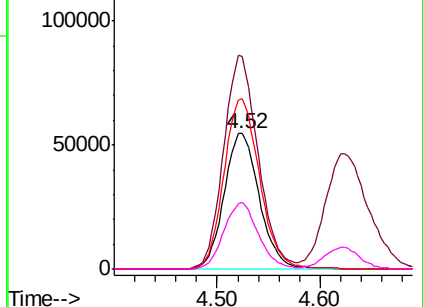


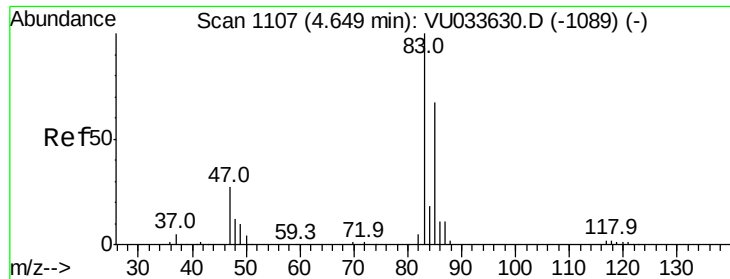
Abundance Ion 128.00 (127.70 to 128.70): VU033631.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VU033631.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VU033631.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VU033631.D (-975) (-)

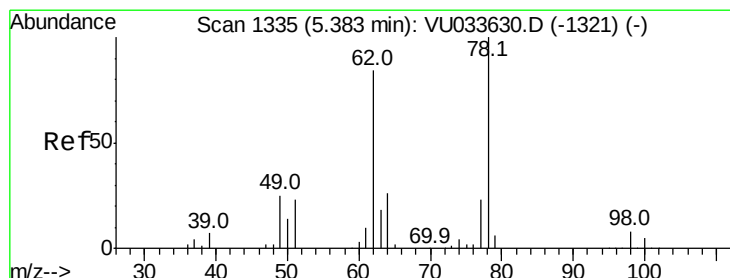
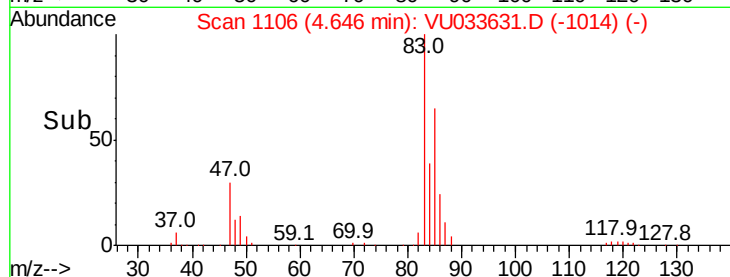
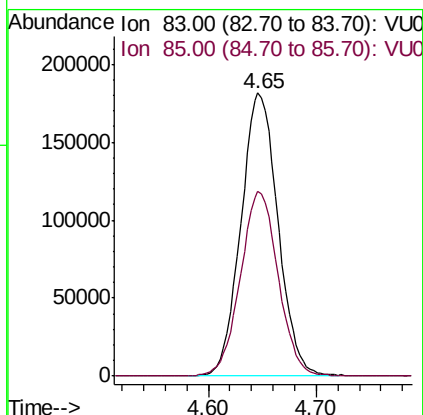
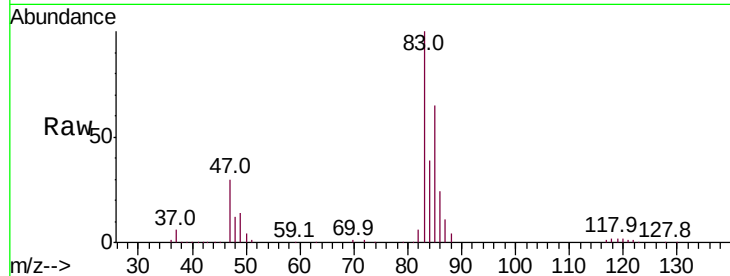




#25
Chloroform
Concen: 103.205 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

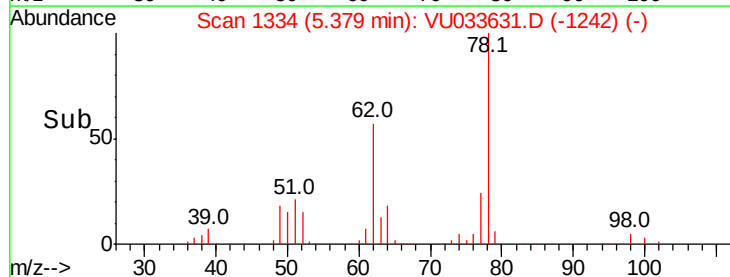
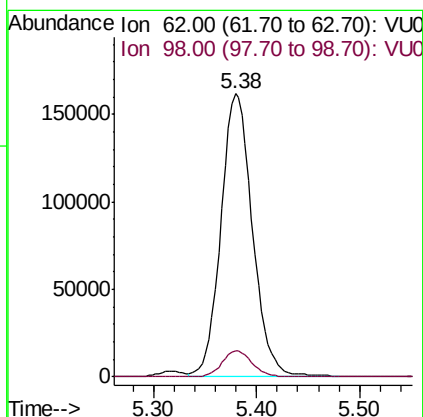
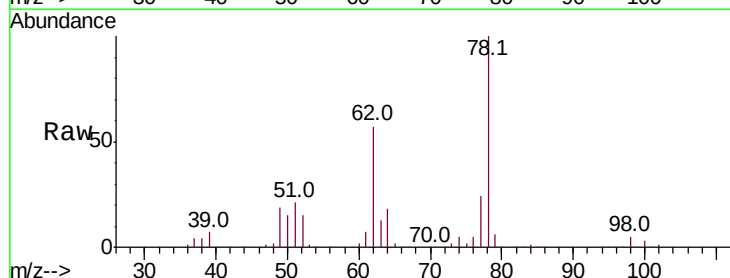
Instrument :
MSVOA_U
ClientSampled :

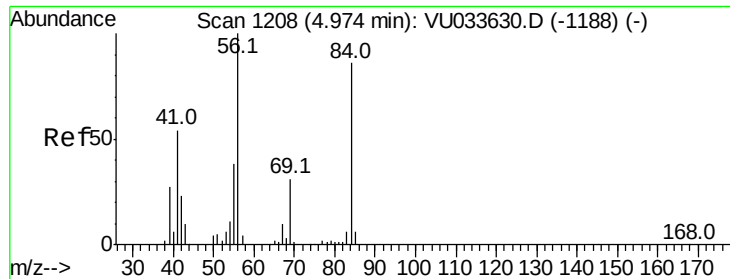
Tot Ion: 83 Resp: 432590
Ion Ratio Lower Upper
83 100
85 65.1 47.2 87.6



#27
1,2-Dichloroethane
Concen: 104.981 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

Tgt Ion: 62 Resp: 342189
Ion Ratio Lower Upper
62 100
98 9.1 7.4 11.2

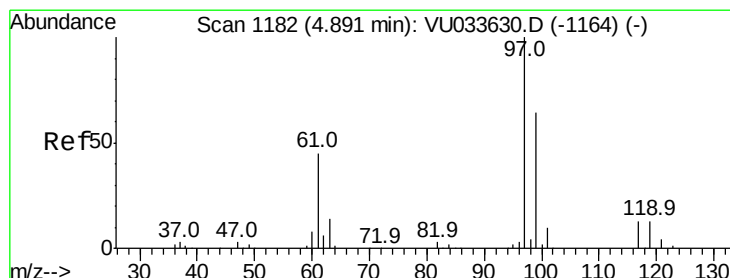
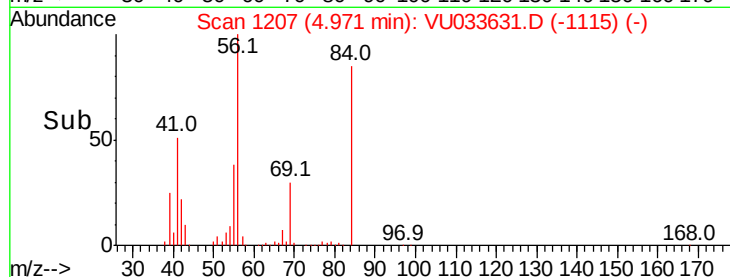
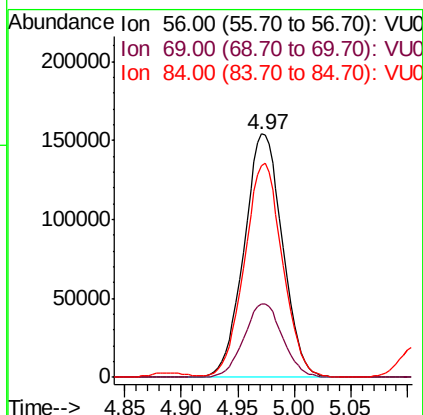
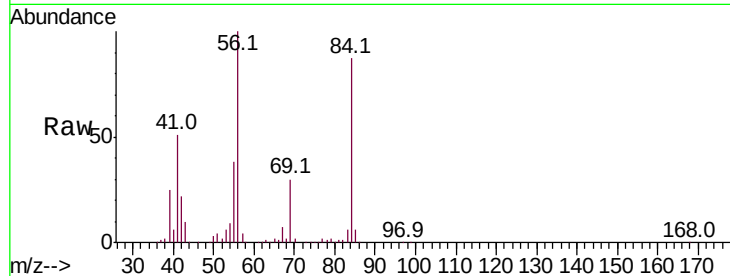




#29
Cyclohexane
Concen: 104.290 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

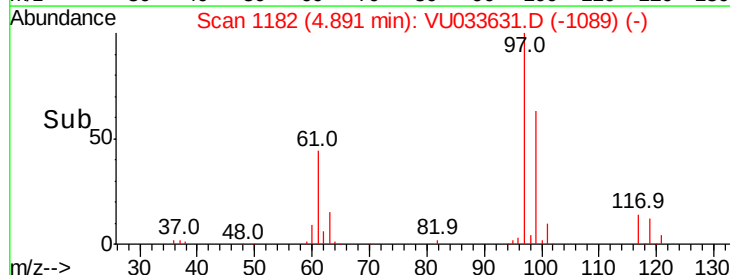
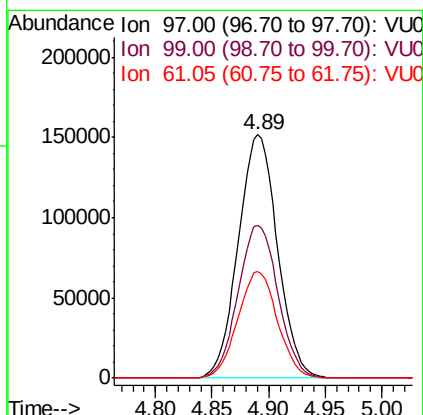
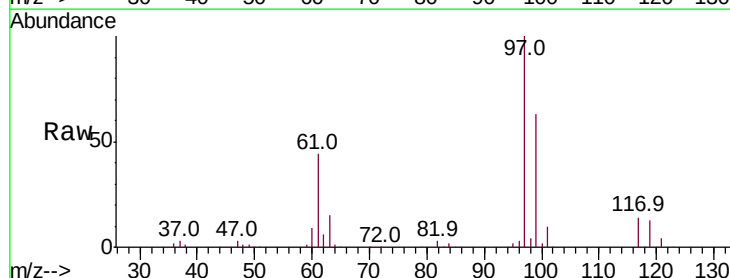
Instrument :
MSVOA_U
ClientSampleId :

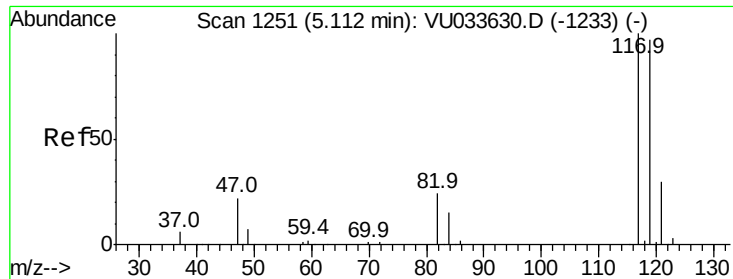
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.5	25.2	37.8
84	86.8	70.2	105.2



#30
1,1,1-Trichloroethane
Concen: 100.623 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.2
61	44.3	36.2	54.4





#31

Carbon tetrachloride

Concen: 103.494 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

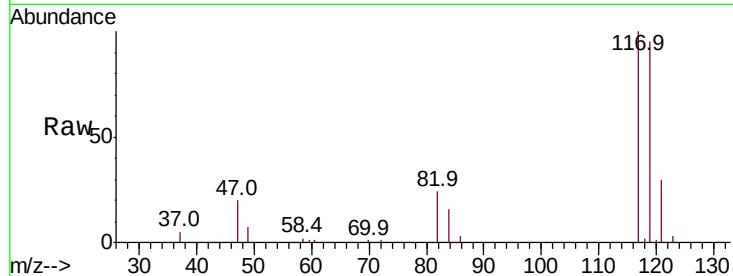
ClientSampleId :

Tot Ion:117 Resp: 331685

Ion Ratio Lower Upper

117 100

119 95.7 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

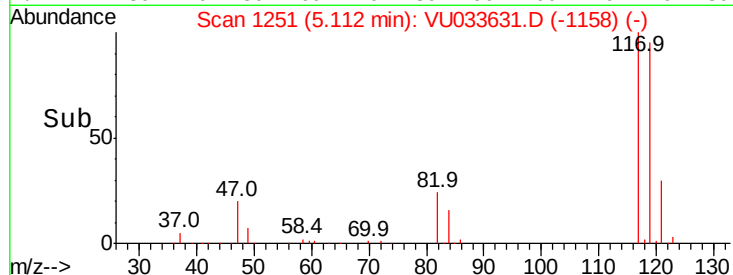
150000

100000

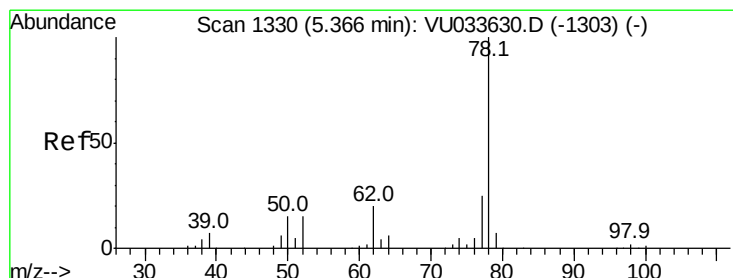
50000

0

5.00 5.10 5.20



Time-->



#33

Benzene

Concen: 102.029 ug/L

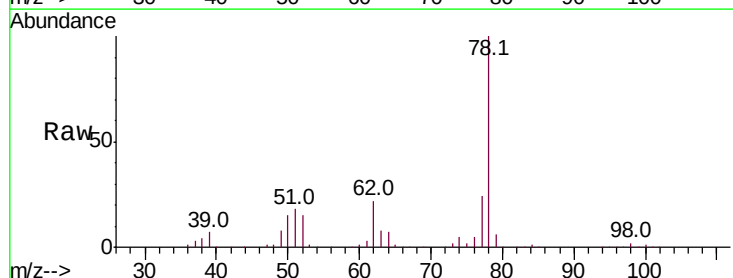
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Tgt Ion: 78 Resp: 940739



Abundance Ion 78.00 (77.70 to 78.70): VU0

500000

400000

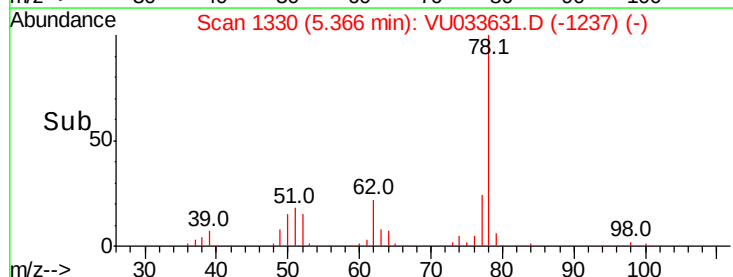
300000

200000

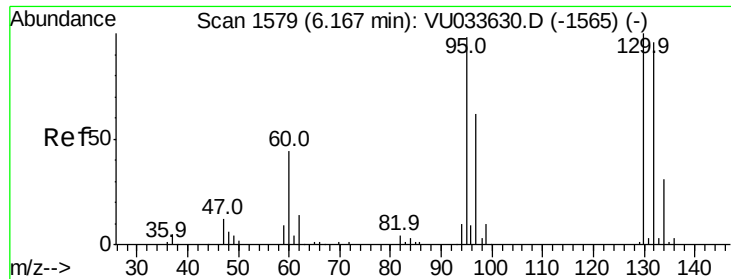
100000

0

5.20 5.30 5.40 5.50



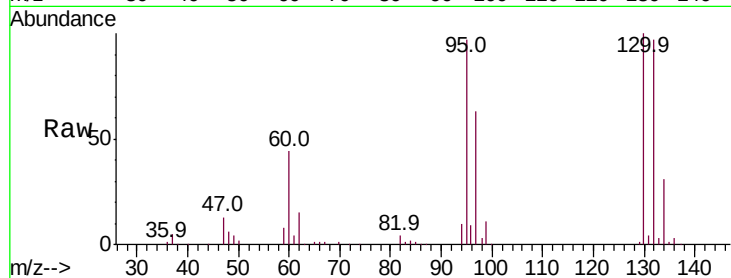
Time-->



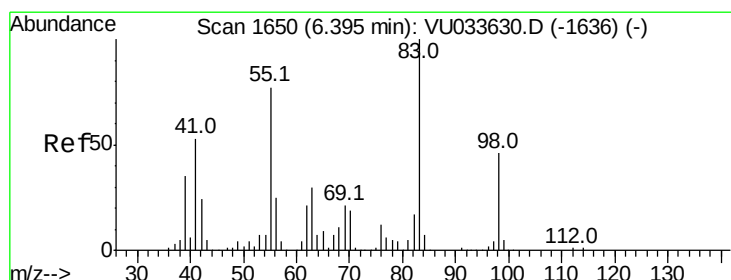
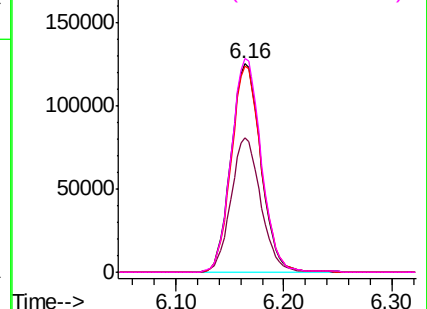
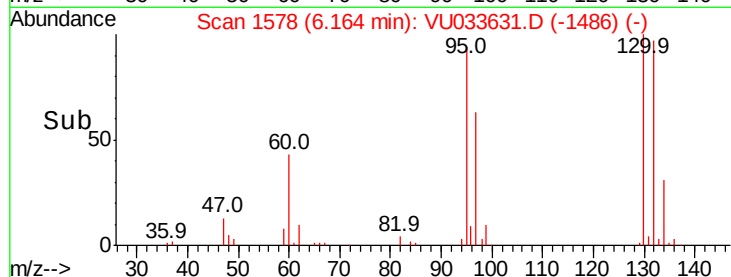
#34
 Trichloroethene
 Concen: 101.627 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	95	Resp:	241462
Ion	Ratio	Lower	Upper
95	100		
97	64.3	44.4	82.5
132	99.0	69.1	128.3
130	102.6	71.7	133.3

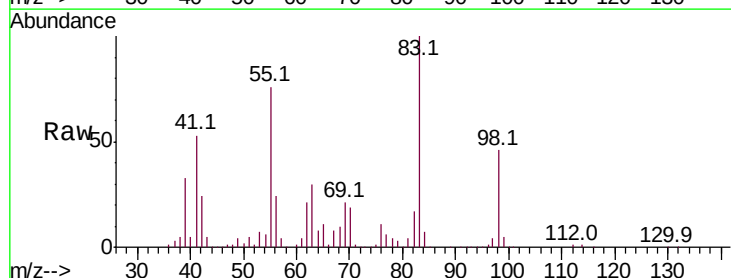


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

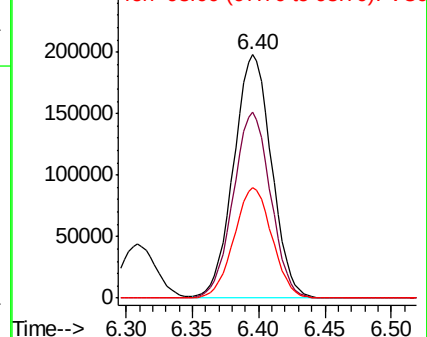
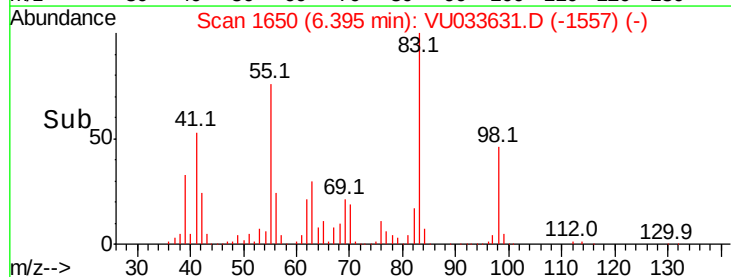


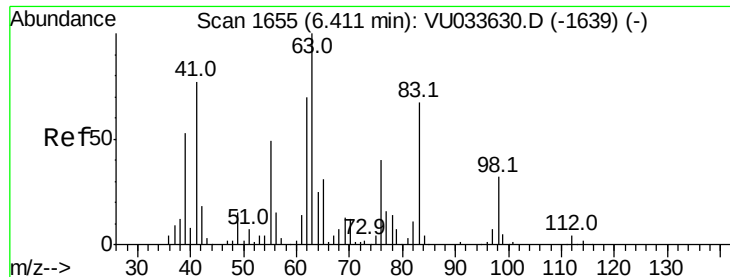
#35
 Methylcyclohexane
 Concen: 105.179 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

Tgt Ion:	83	Resp:	391815
Ion	Ratio	Lower	Upper
83	100		
55	75.7	61.3	91.9
98	45.7	36.7	55.1



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

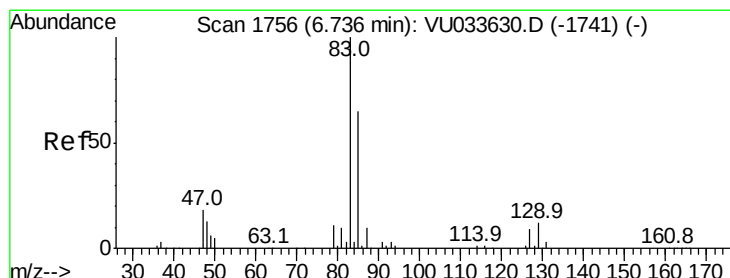
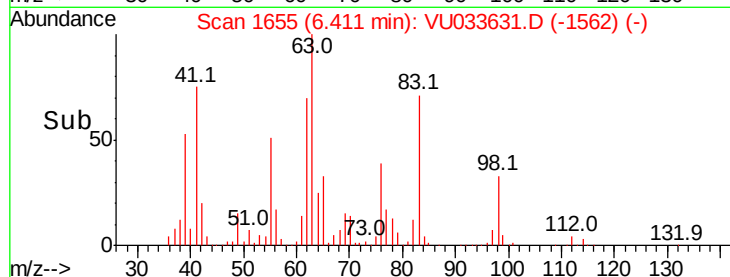
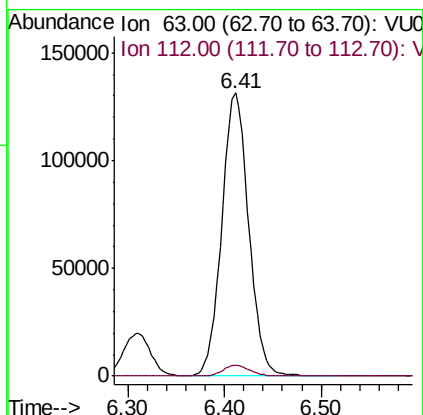
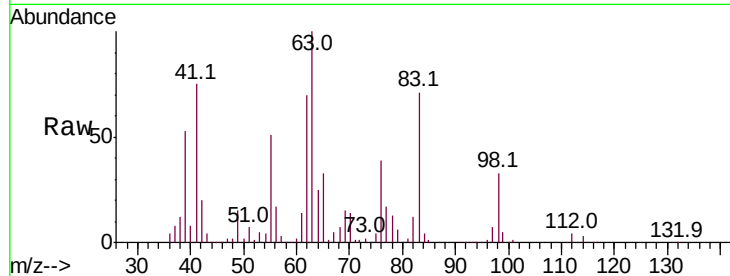




#37
 1,2-Dichloropropane
 Concen: 100.312 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

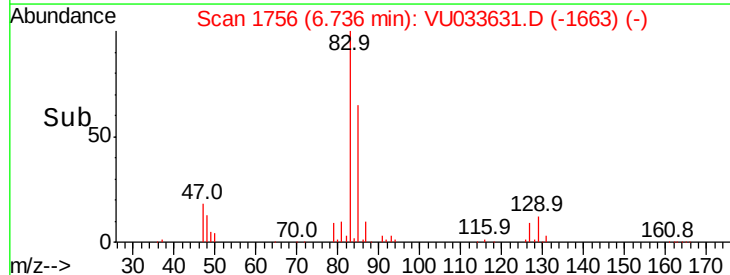
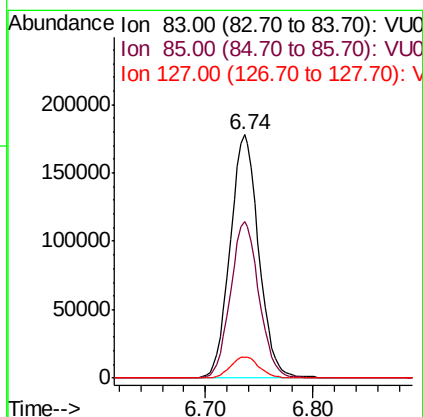
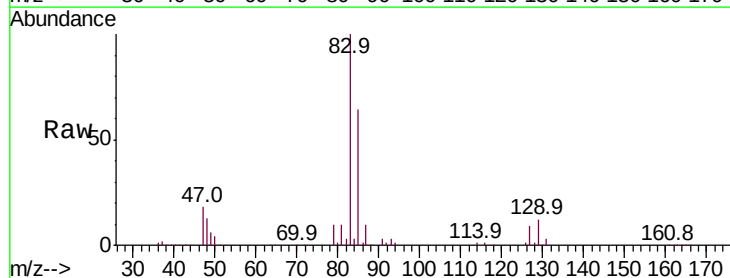
Instrument :
 MSVOA_U
 ClientSampled :

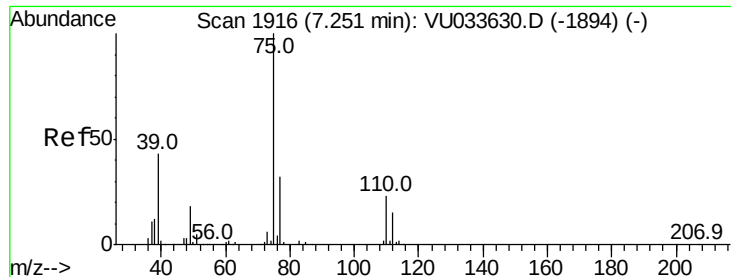
Tot Ion: 63 Resp: 252856
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 103.022 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

Tgt Ion: 83 Resp: 327738
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.6 84.6
 127 8.8 7.0 10.4



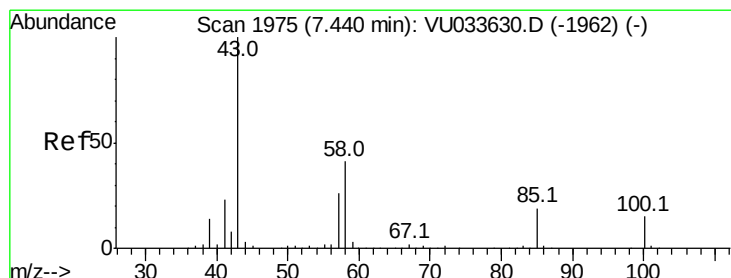
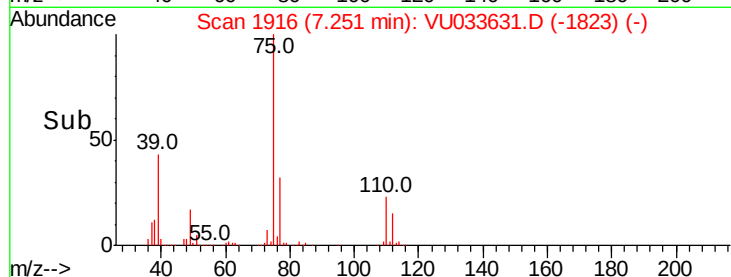
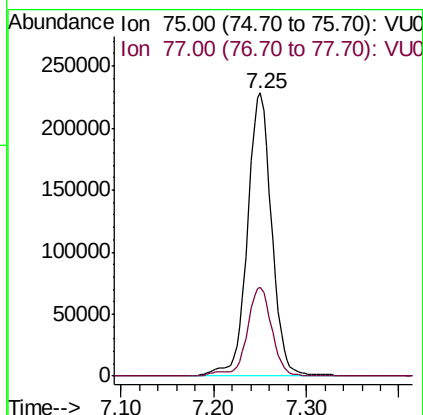
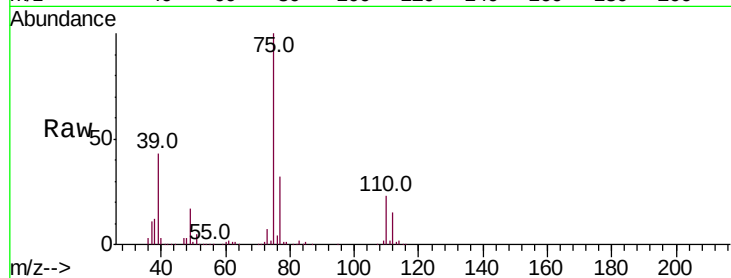


#39

cis-1,3-Dichloropropene
Concen: 108.403 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. -0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampled :

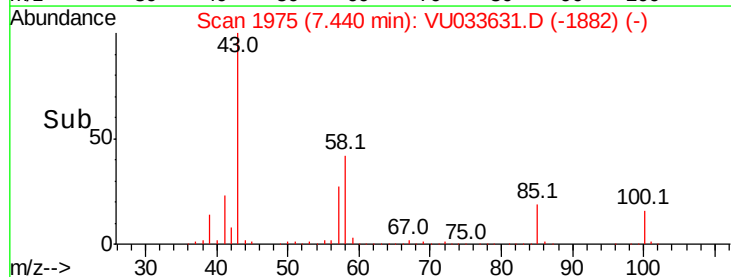
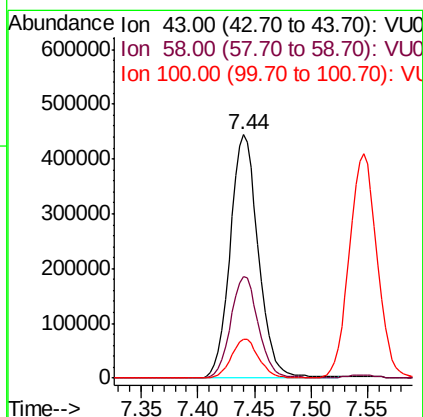
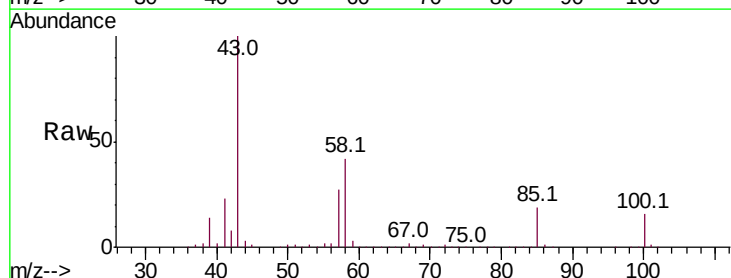
Tot Ion: 75 Resp: 416379
Ion Ratio Lower Upper
75 100
77 31.6 22.5 41.9

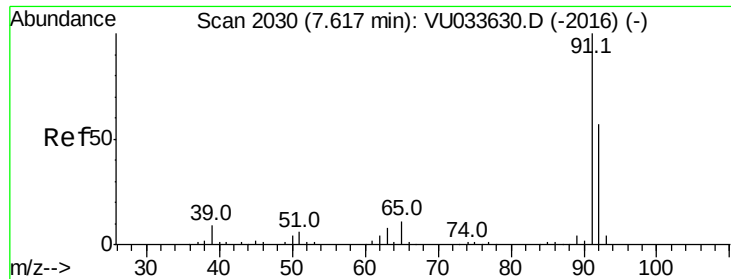


#40

4-Methyl-2-pentanone
Concen: 213.106 ug/L
RT: 7.44 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

Tgt Ion: 43 Resp: 771231
Ion Ratio Lower Upper
43 100
58 41.1 32.7 49.1
100 15.7 12.2 18.4





#42

Toluene

Concen: 105.938 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

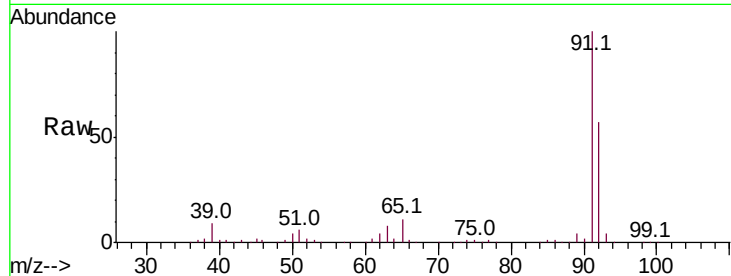
ClientSampleId :

Tot Ion: 91 Resp: 1043528

Ion Ratio Lower Upper

91 100

92 56.6 39.6 73.6



Abundance Ion 91.00 (90.70 to 91.70): VU033631.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033631.D (-2016) (-)

7.62

600000

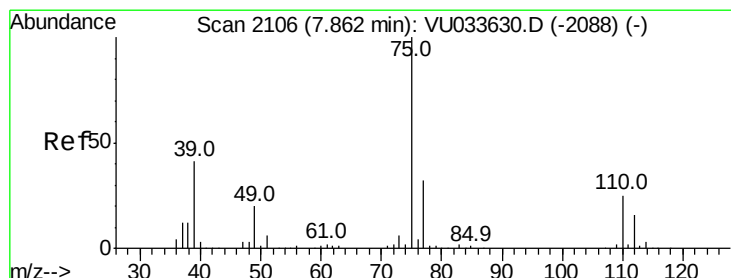
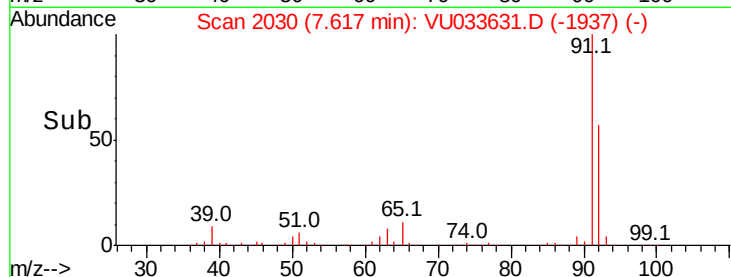
400000

200000

0

Time-->

7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 108.130 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033631.D

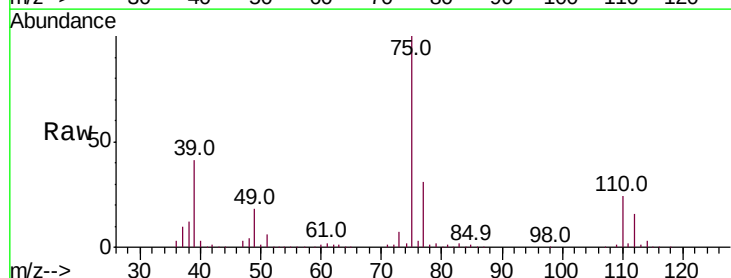
Acq: 08 Aug 2019 12:26

Tgt Ion: 75 Resp: 375010

Ion Ratio Lower Upper

75 100

77 30.8 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU033631.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033631.D (-2088) (-)

7.86

250000

200000

150000

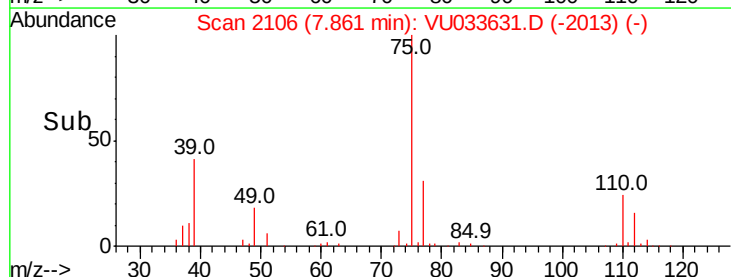
100000

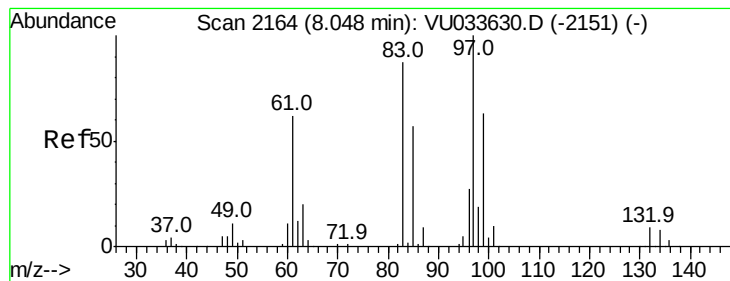
50000

0

Time-->

7.80 7.90





#45

1,1,2-Trichloroethane

Concen: 101.312 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 239687

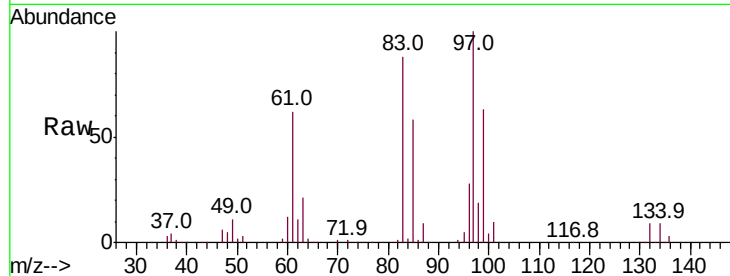
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.0	81.6
83	88.3	60.6	112.6
85	57.5	39.9	74.1

97 100

99 63.3 44.0 81.6

83 88.3 60.6 112.6

85 57.5 39.9 74.1



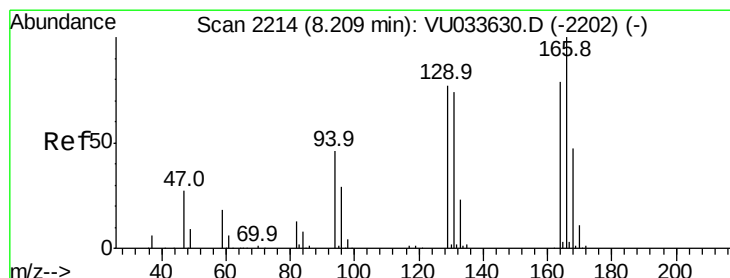
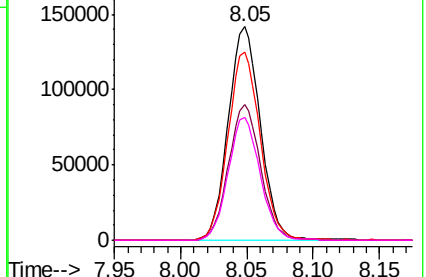
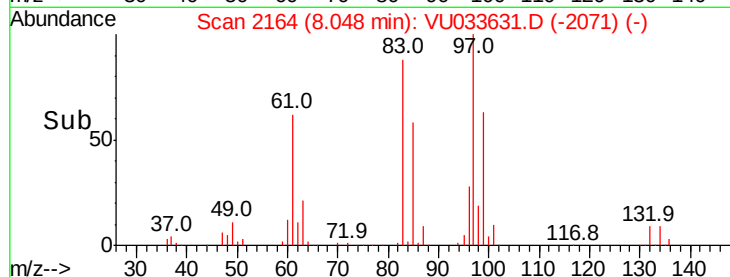
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 103.142 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Tgt Ion:164 Resp: 200354

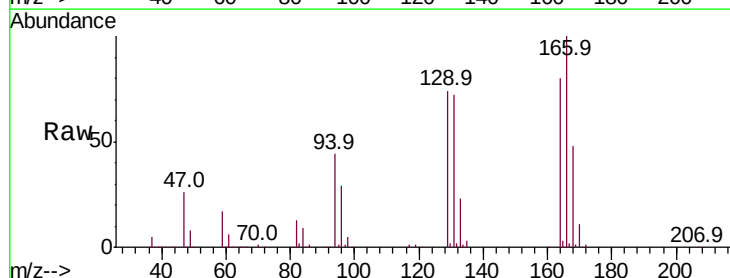
Ion	Ratio	Lower	Upper
164	100		
129	93.1	68.1	126.5
131	90.7	65.5	121.6
166	125.2	88.5	164.3

164 100

129 93.1 68.1 126.5

131 90.7 65.5 121.6

166 125.2 88.5 164.3



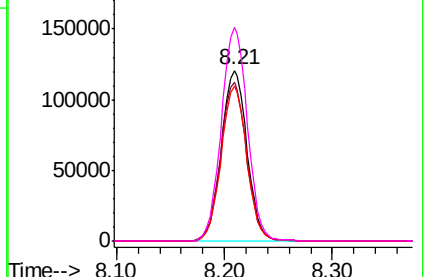
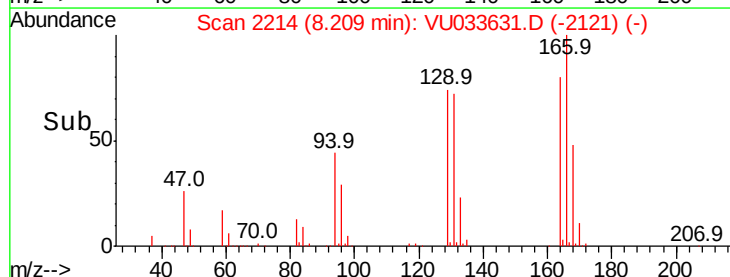
Abundance

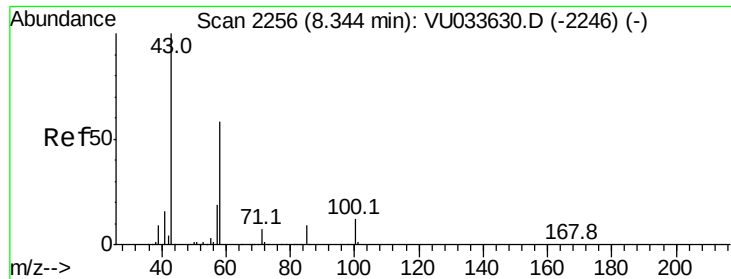
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

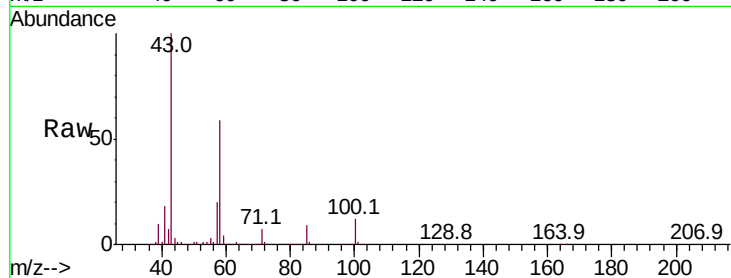




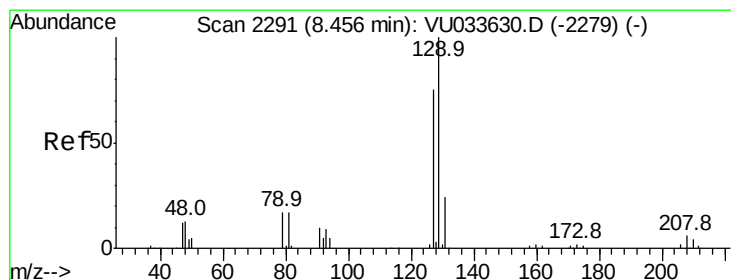
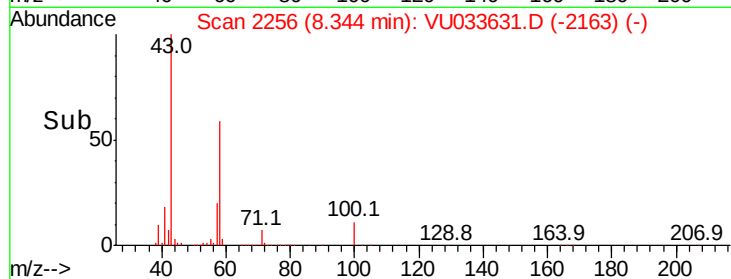
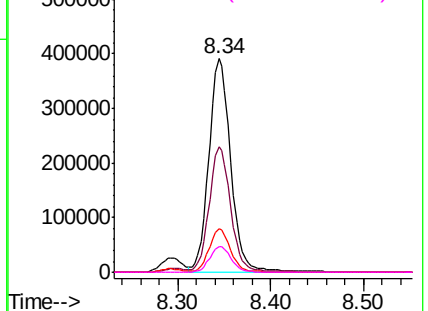
#48
2-Hexanone
Concen: 219.450 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 637581
Ion Ratio Lower Upper
43 100
58 57.5 44.8 67.2
57 19.7 15.5 23.3
100 12.1 9.4 14.2

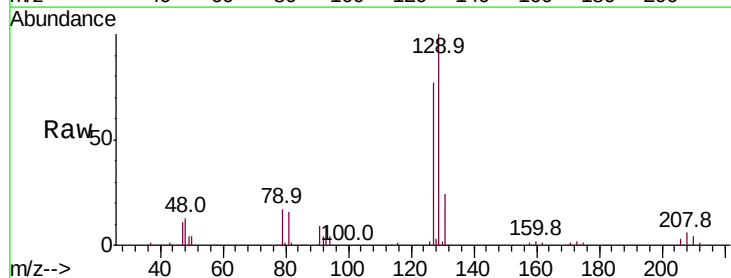


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

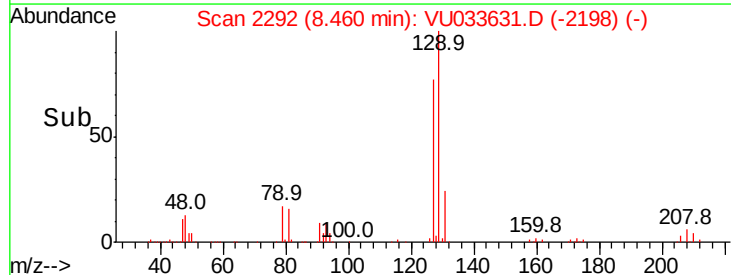
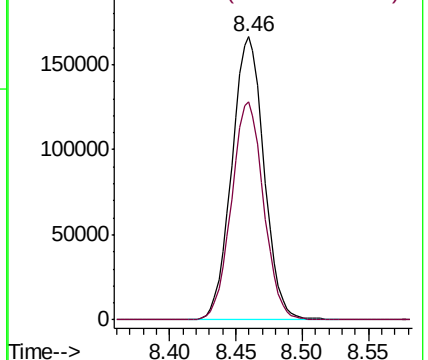


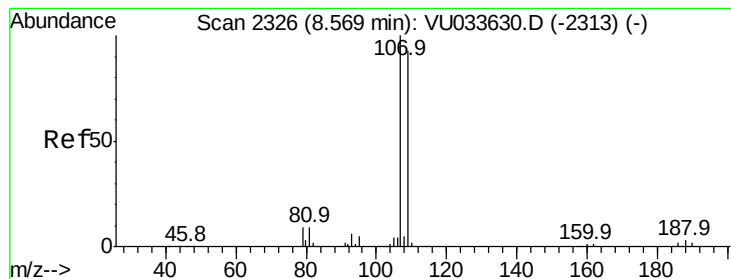
#49
Dibromochloromethane
Concen: 105.665 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033631.D
Acq: 08 Aug 2019 12:26

Tgt Ion: 129 Resp: 281214
Ion Ratio Lower Upper
129 100
127 77.2 52.5 97.5



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

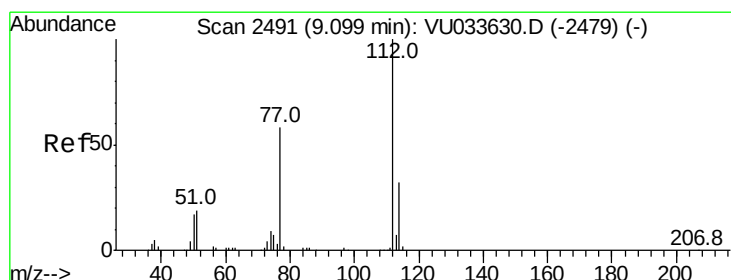
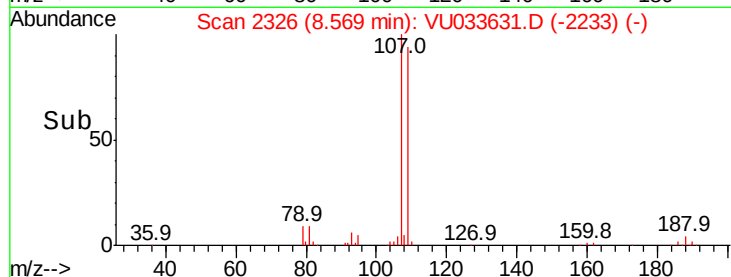
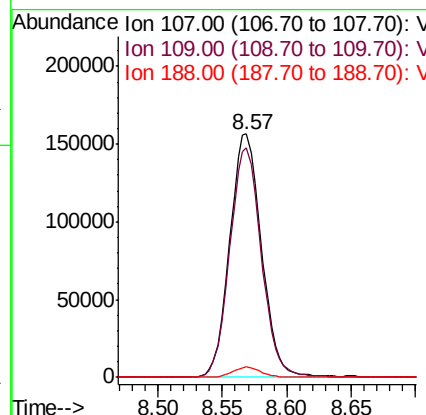
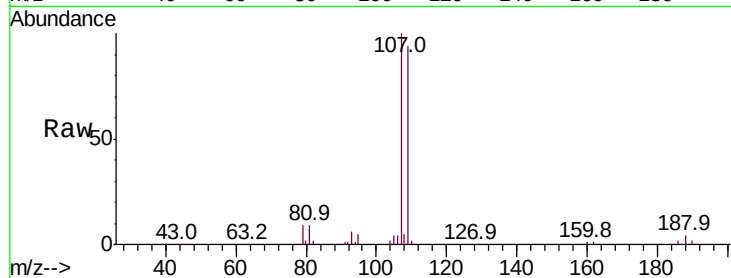




#50
 1,2-Dibromoethane
 Concen: 103.210 ug/L
 RT: 8.57 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

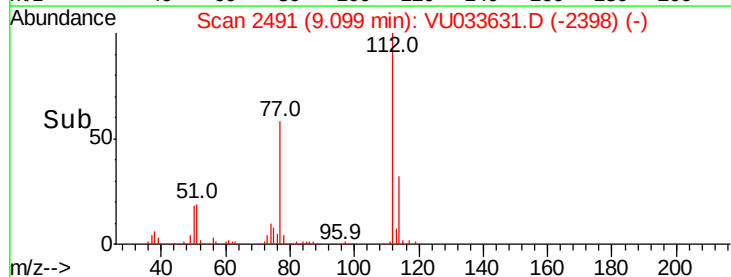
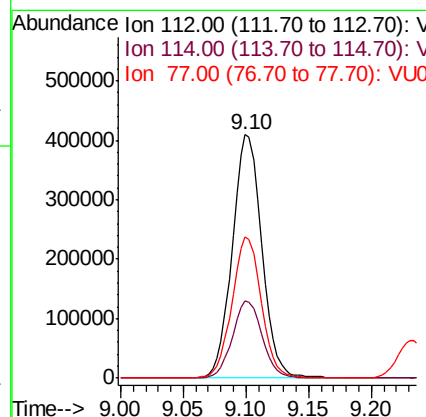
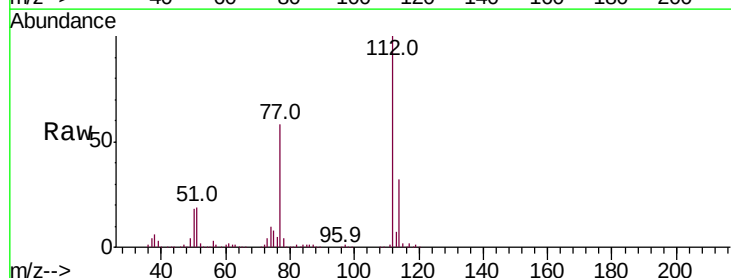
Instrument :
 MSVOA_U
 ClientSampleId :

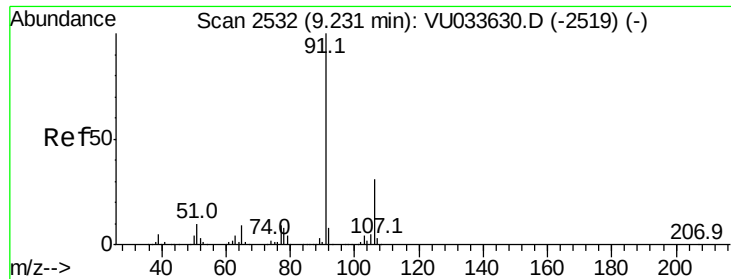
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	65.4	121.4
188	4.1	2.6	4.0#



#51
 Chlorobenzene
 Concen: 104.030 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	22.7	42.1
77	58.0	47.2	70.8





#52

Ethylbenzene

Concen: 107.780 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

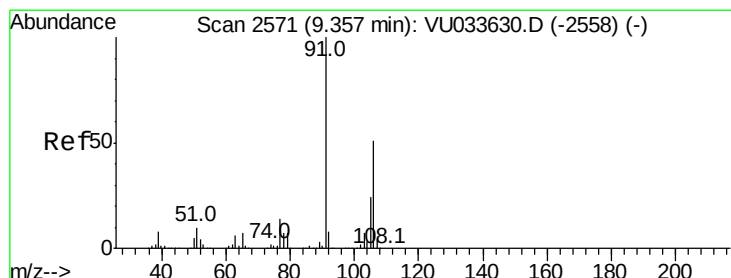
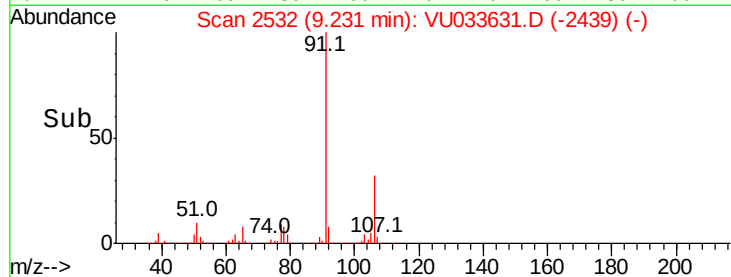
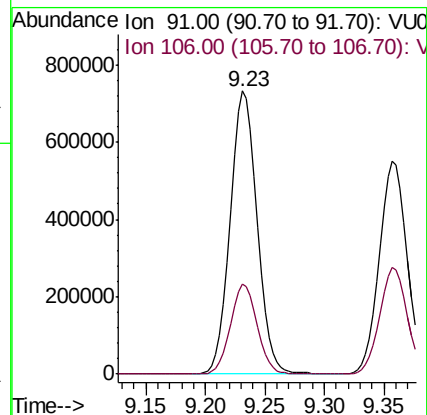
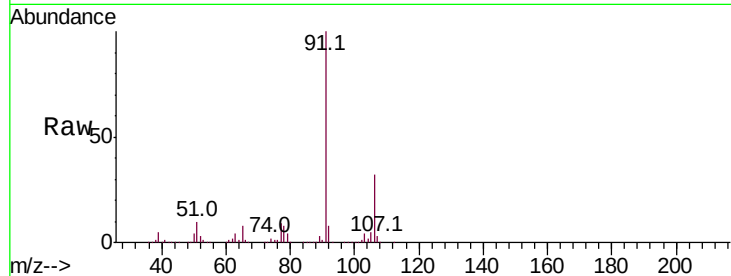
ClientSampled :

Tot Ion: 91 Resp: 1150932

Ion Ratio Lower Upper

91 100

106 31.6 21.9 40.7



#53

m,p-Xylene

Concen: 109.661 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033631.D

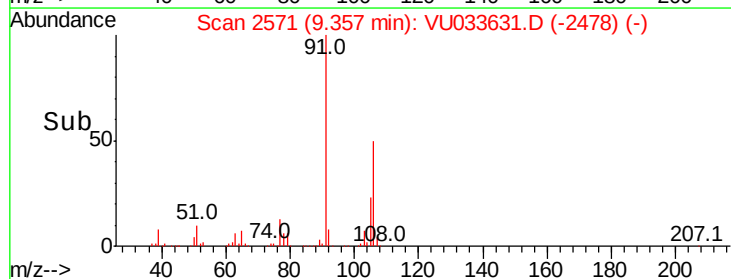
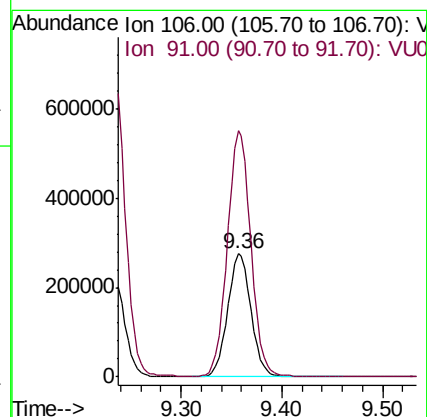
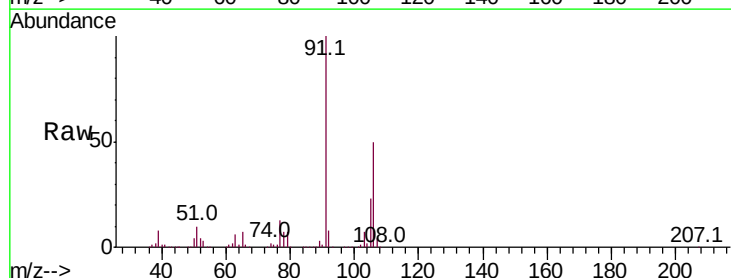
Acq: 08 Aug 2019 12:26

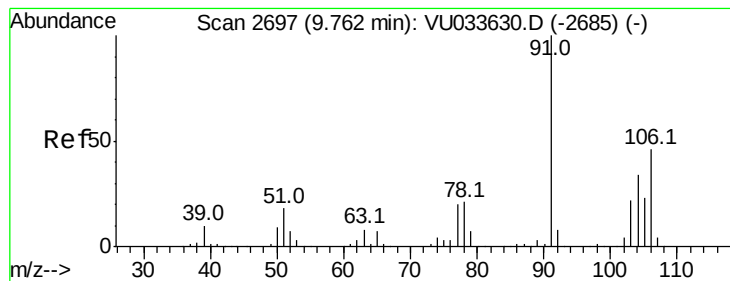
Tgt Ion: 106 Resp: 445988

Ion Ratio Lower Upper

106 100

91 200.1 138.5 257.3





#54

o-xylene

Concen: 110.119 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

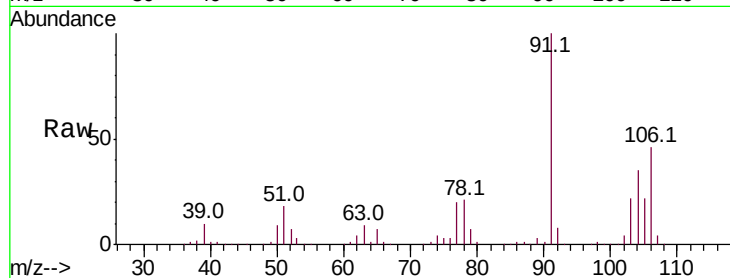
ClientSampleId :

Tot Ion:106 Resp: 437880

Ion Ratio Lower Upper

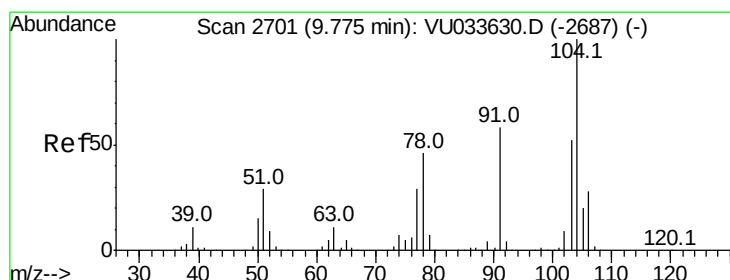
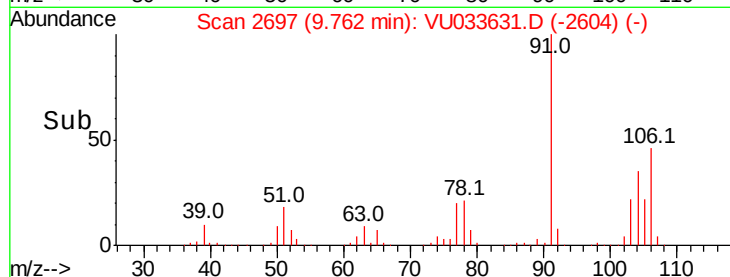
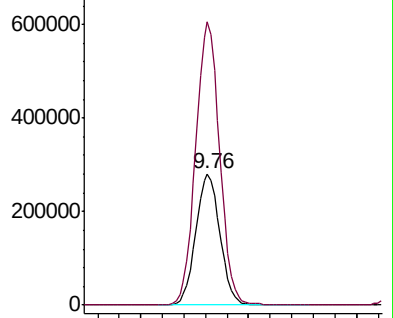
106 100

91 215.4 152.1 282.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 112.848 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033631.D

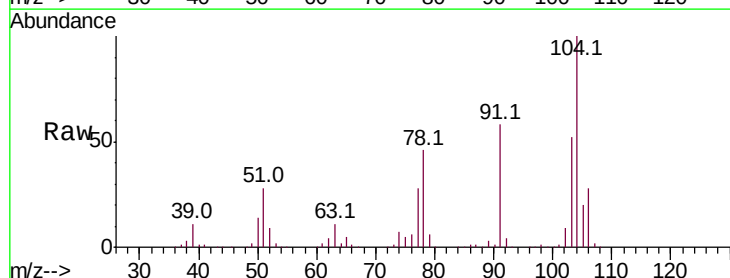
Acq: 08 Aug 2019 12:26

Tgt Ion:104 Resp: 765481

Ion Ratio Lower Upper

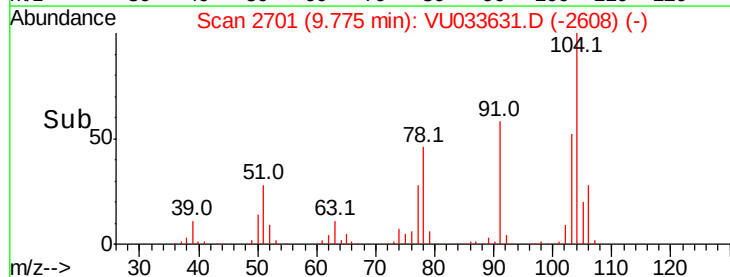
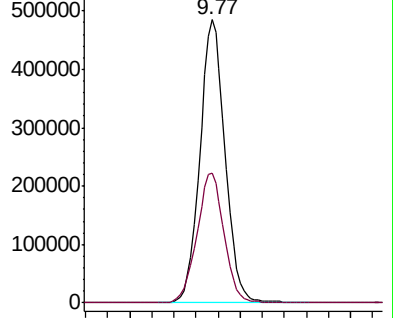
104 100

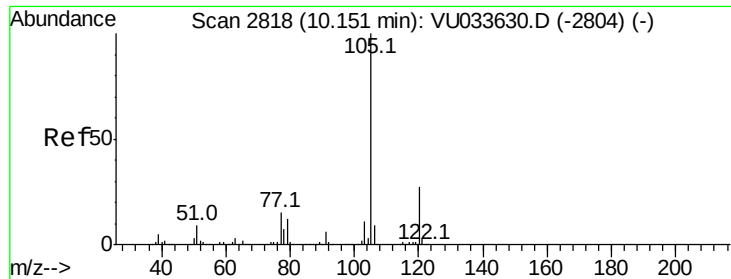
78 46.0 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 111.211 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampled :

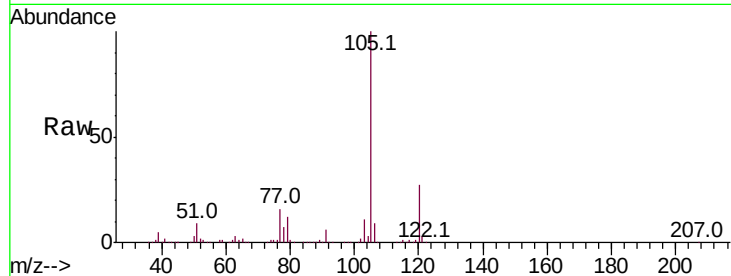
Tot Ion:105 Resp: 1143139

Ion Ratio Lower Upper

105 100

120 26.6 21.5 32.3

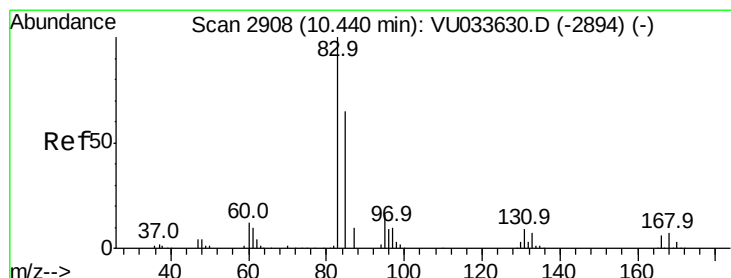
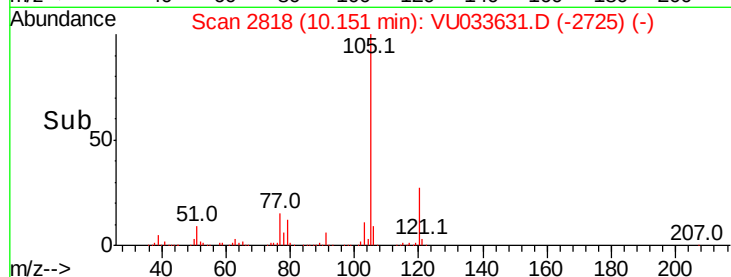
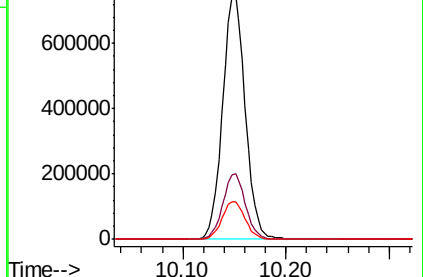
77 15.8 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 105.653 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

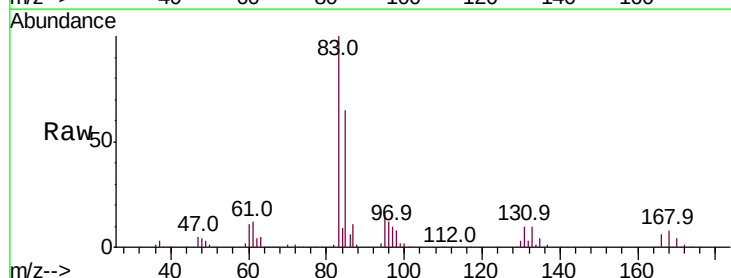
Tgt Ion: 83 Resp: 445371

Ion Ratio Lower Upper

83 100

85 65.0 45.7 84.9

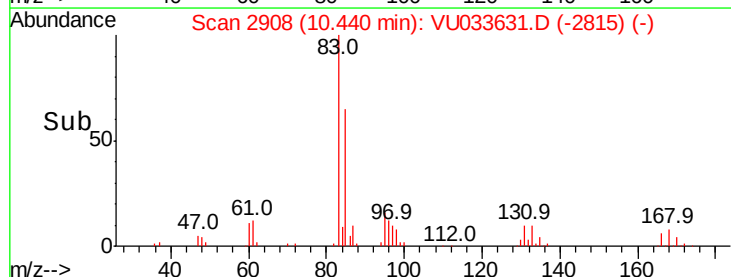
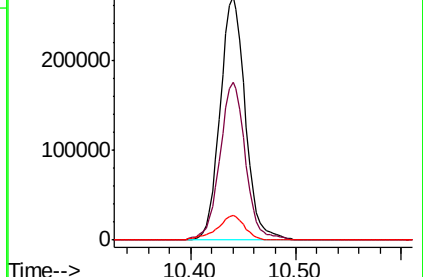
131 10.0 7.7 11.5

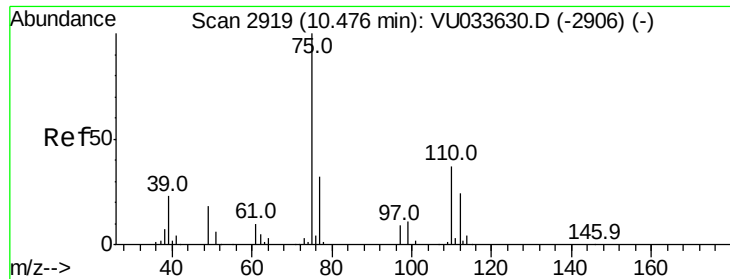


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 105.542 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

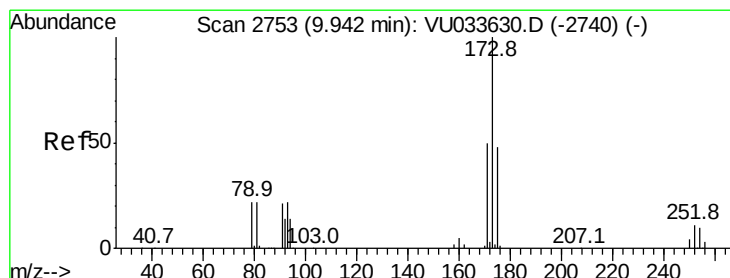
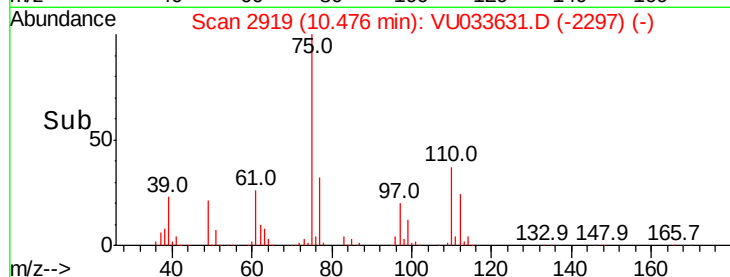
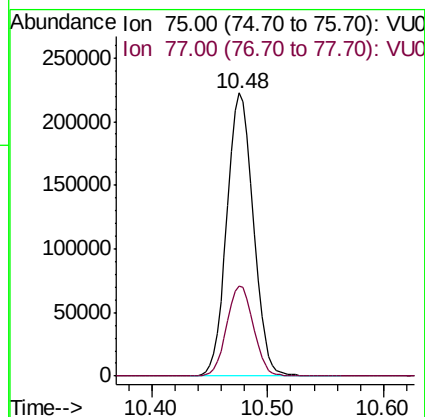
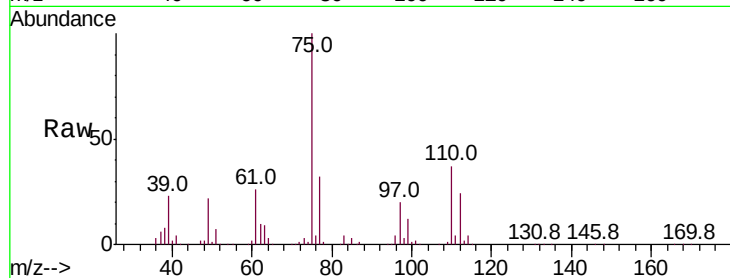
ClientSampled :

Tot Ion: 75 Resp: 349827

Ion Ratio Lower Upper

75 100

77 32.2 25.5 38.3



#61

Bromoform

Concen: 102.684 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

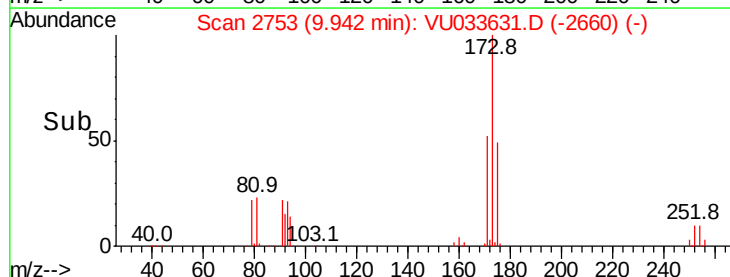
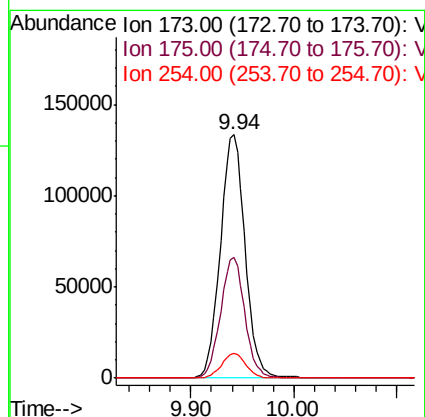
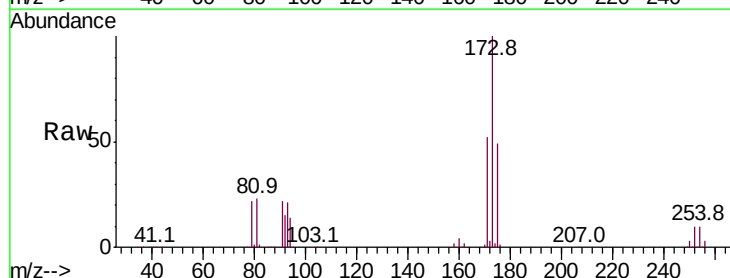
Tgt Ion:173 Resp: 222432

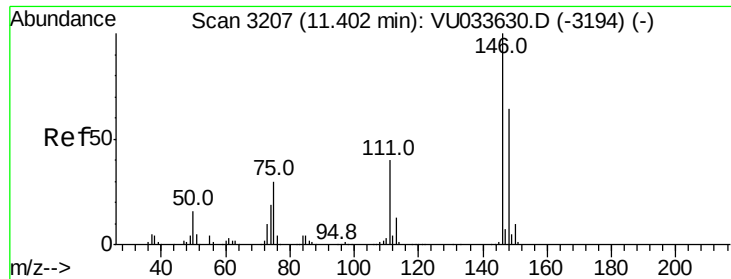
Ion Ratio Lower Upper

173 100

175 48.6 39.3 58.9

254 9.9 7.8 11.8

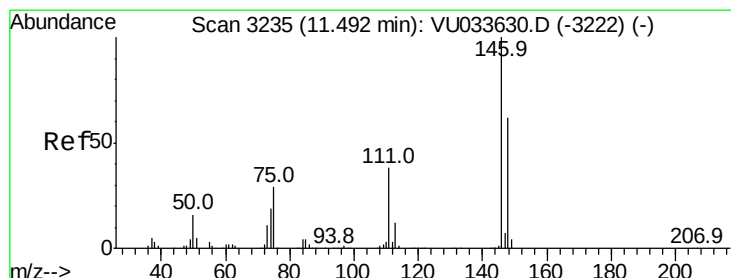
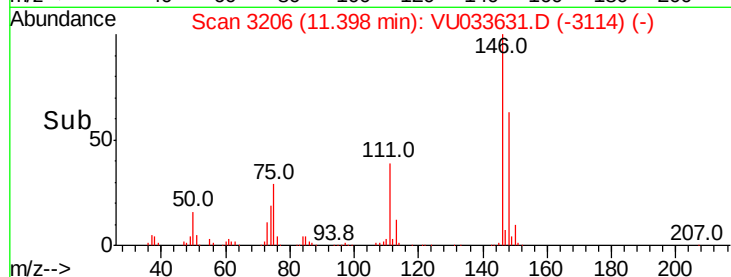
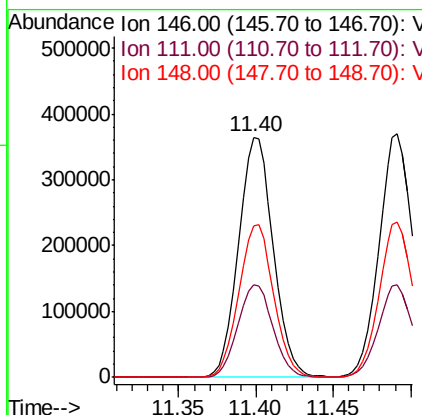
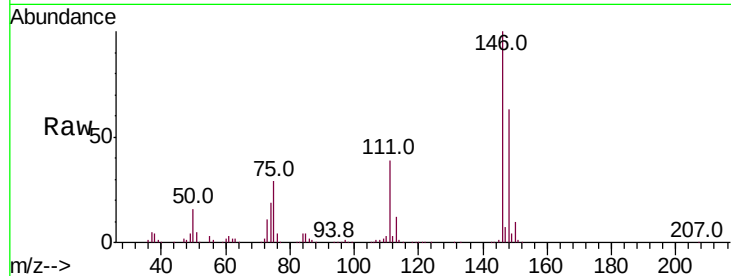




#62
 1,3-Dichlorobenzene
 Concen: 104.274 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

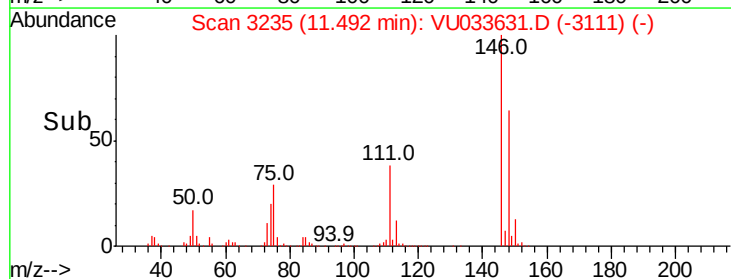
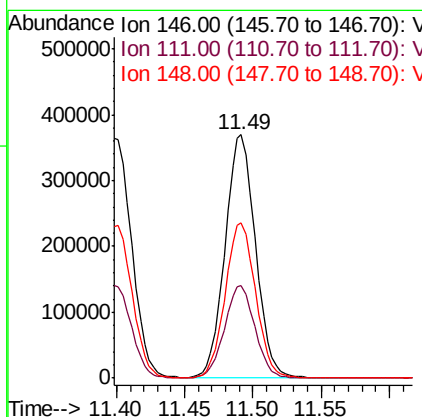
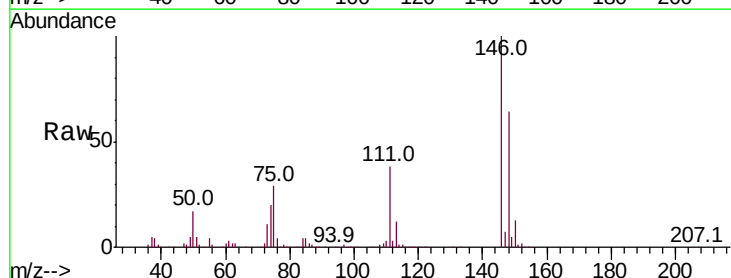
Instrument :
 MSVOA_U
 ClientSampleId :

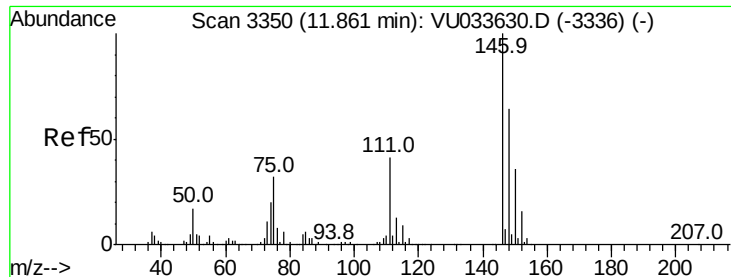
Tot Ion:146 Resp: 568481
 Ion Ratio Lower Upper
 146 100
 111 38.7 27.9 51.9
 148 63.3 44.7 82.9



#63
 1,4-Dichlorobenzene
 Concen: 102.602 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

Tgt Ion:146 Resp: 571727
 Ion Ratio Lower Upper
 146 100
 111 37.8 26.8 49.8
 148 63.9 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 104.944 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

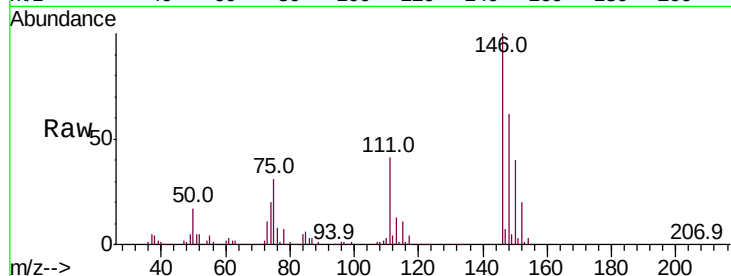
Tot Ion:146 Resp: 573267

Ion Ratio Lower Upper

146 100

111 40.9 33.0 49.4

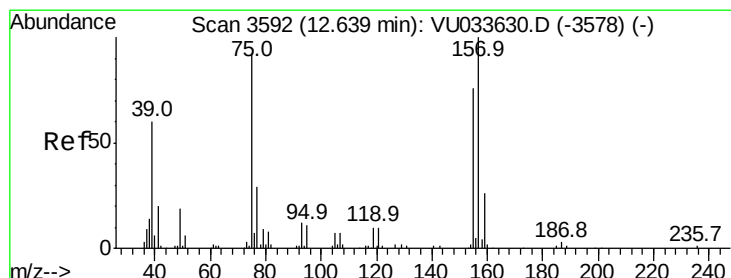
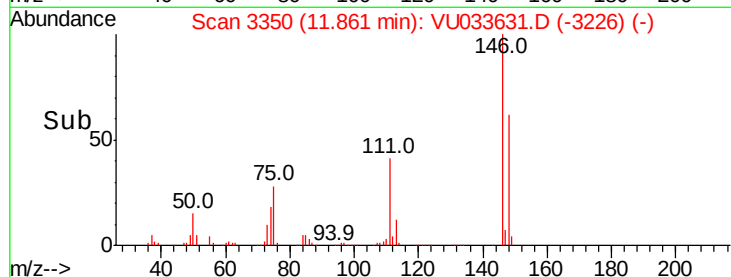
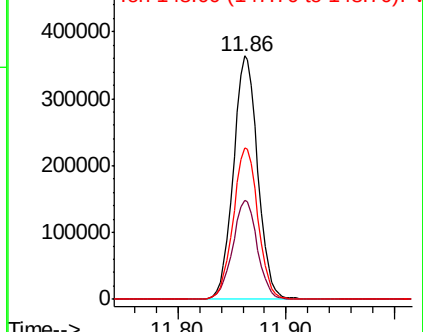
148 62.5 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): 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: 103.033 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

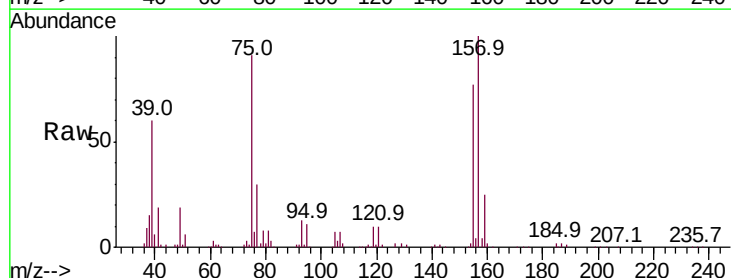
Tgt Ion: 75 Resp: 105549

Ion Ratio Lower Upper

75 100

155 84.1 65.8 98.8

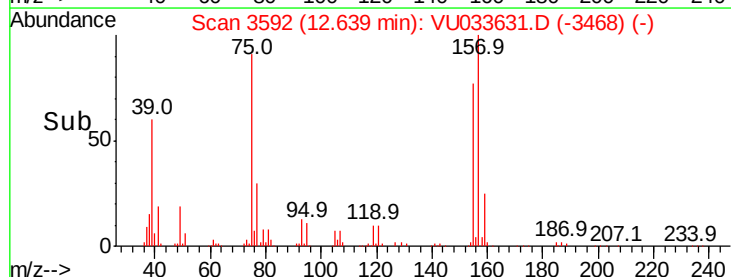
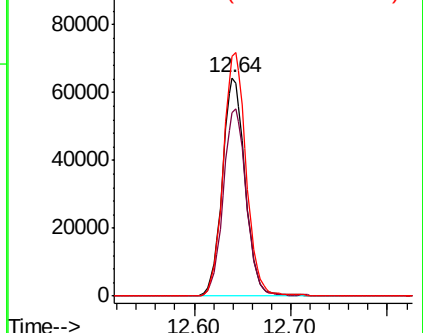
157 109.8 86.9 130.3

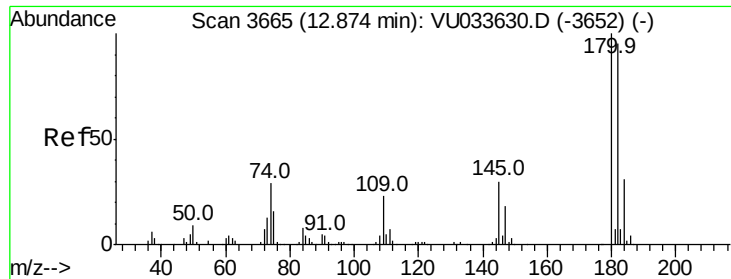


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

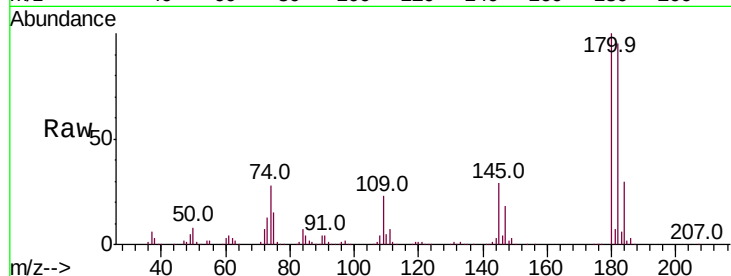




#67
 1,3,5-Trichlorobenzene
 Concen: 103.321 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.3	114.5
184	30.6	24.2	36.4
145	28.8	23.5	35.3



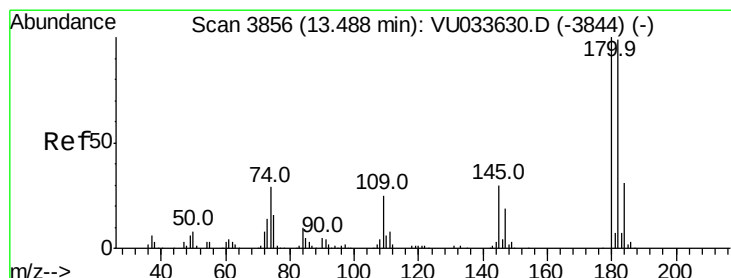
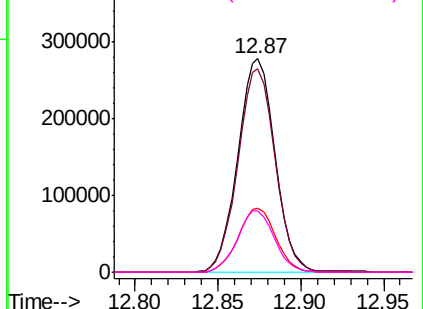
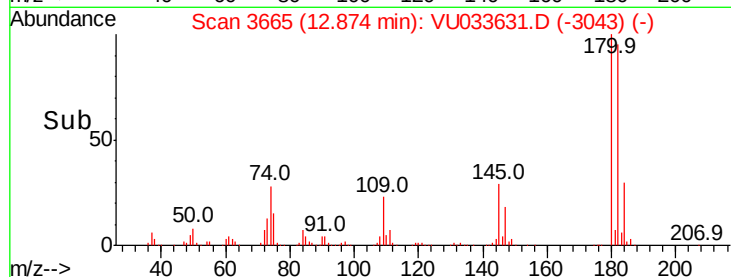
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

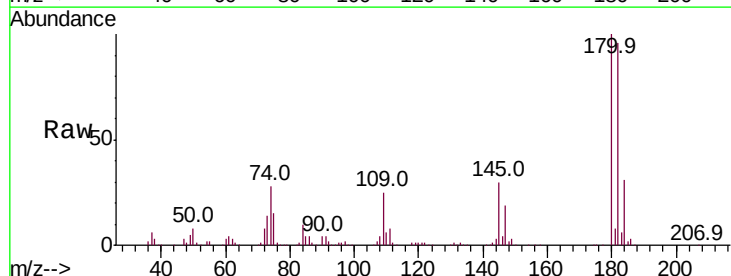
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 108.629 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033631.D
 Acq: 08 Aug 2019 12:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	78.5	117.7
145	29.4	23.6	35.4

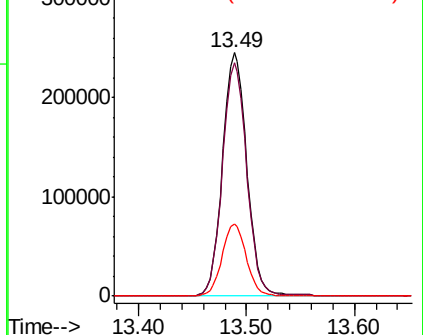
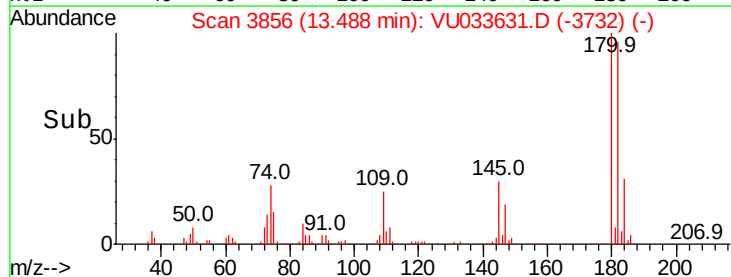


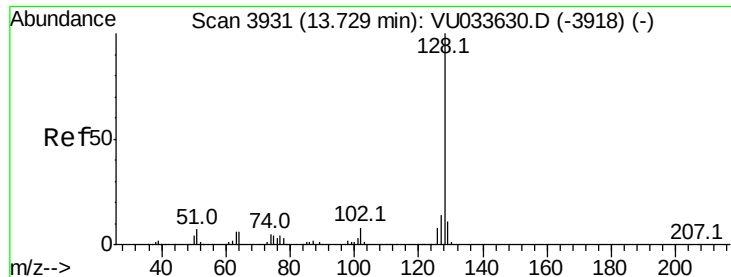
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 117.799 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

Instrument :

MSVOA_U

ClientSampleId :

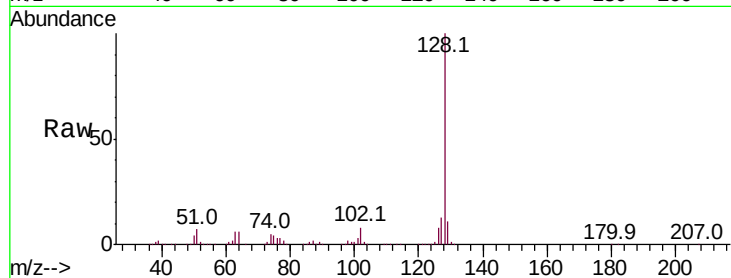
Tot Ion:128 Resp: 1220958

Ion Ratio Lower Upper

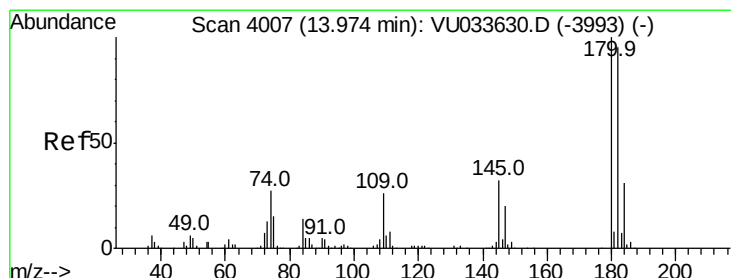
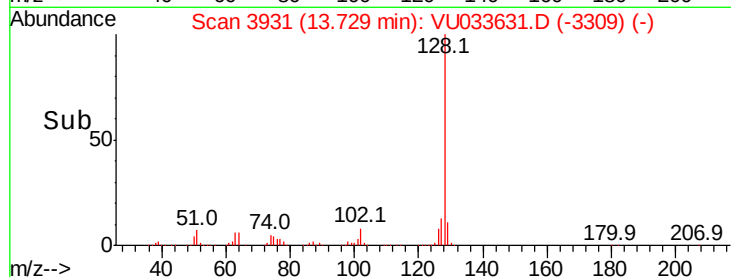
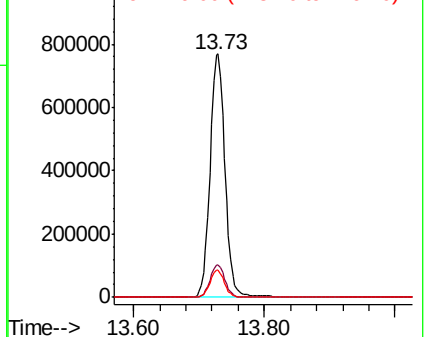
128 100

127 13.1 10.6 16.0

129 10.7 8.8 13.2



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



#70

1,2,3-Trichlorobenzene

Concen: 105.412 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033631.D

Acq: 08 Aug 2019 12:26

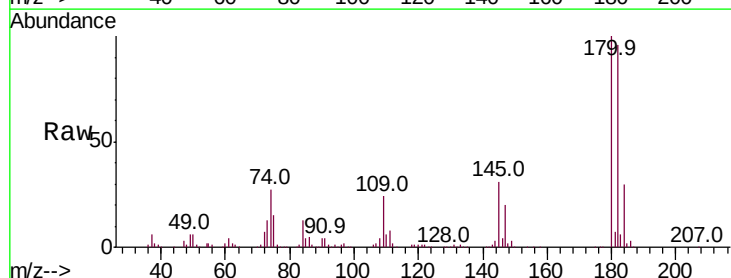
Tgt Ion:180 Resp: 399965

Ion Ratio Lower Upper

180 100

182 95.3 76.6 115.0

145 30.4 25.1 37.7



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

