

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042020\
 Data File : VU037816.D
 Acq On : 20 Apr 2020 16:17
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 21 01:13:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Apr 21 01:10:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	347880	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	336173	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	169788	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	102026	3.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.60%
7) Chloroethane-d5	1.93	69	87492	3.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.80%
11) 1,1-Dichloroethene-d2	2.59	63	193895	4.15	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.00%
20) 2-Butanone-d5	4.66	46	321377	44.45	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.90%
24) Chloroform-d	5.10	84	178857	4.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.20%
26) 1,2-Dichloroethane-d4	5.74	65	105648	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
32) Benzene-d6	5.76	84	378562	4.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.20%
36) 1,2-Dichloropropane-d6	6.72	67	128512	4.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.00%
41) Toluene-d8	7.92	98	349802	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.80%
43) trans-1,3-Dichloropropene-	8.20	79	54045	4.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.40%
46) 2-Hexanone-d5	8.65	63	286546	42.16	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.32%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	101536	4.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.00%
64) 1,2-Dichlorobenzene-d4	12.21	152	127866	4.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	143153	4.743	ug/L 99
3) Chloromethane	1.54	50	147584	3.955	ug/L 99
5) Vinyl chloride	1.62	62	167686	4.575	ug/L 97
6) Bromomethane	1.87	94	64385	3.059	ug/L 99
8) Chloroethane	1.95	64	94993	4.413	ug/L 99
9) Trichlorofluoromethane	2.16	101	182392	4.637	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	106442	4.648	ug/L 98
12) 1,1-Dichloroethene	2.60	96	104273	4.343	ug/L 93
13) Acetone	2.65	43	209395	43.929	ug/L 97
14) Carbon disulfide	2.82	76	368128	4.200	ug/L 99
15) Methyl Acetate	2.98	43	58799	4.437	ug/L 100
16) Methylene chloride	3.08	84	122275	4.518	ug/L 92
17) Methyl tert-butyl Ether	3.40	73	310143	4.462	ug/L 98
18) trans-1,2-Dichloroethene	3.38	96	116414	4.473	ug/L 97
19) 1,1-Dichloroethane	3.91	63	238814	4.744	ug/L 100
21) 2-Butanone	4.75	43	389150	44.934	ug/L 99
22) cis-1,2-Dichloroethene	4.71	96	127412	4.531	ug/L 94

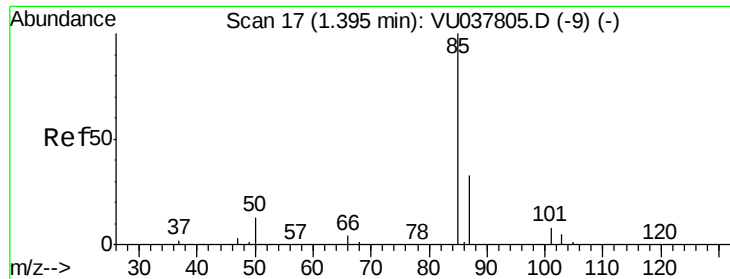
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U042020\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Apr 21 01:10:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	52386	4.395	ug/L	96
25) Chloroform	5.13	83	229568	4.801	ug/L	100
27) 1,2-Dichloroethane	5.83	62	154988	4.795	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	190493	4.670	ug/L	98
30) Cyclohexane	5.42	56	235277	4.660	ug/L	98
31) Carbon tetrachloride	5.56	117	153787	4.731	ug/L	100
33) Benzene	5.81	78	510229	4.594	ug/L	100
34) Trichloroethene	6.57	95	127257	4.662	ug/L	95
35) Methylcyclohexane	6.79	83	225563	4.715	ug/L	99
37) 1,2-Dichloropropane	6.82	63	138824	4.713	ug/L	100
38) Bromodichloromethane	7.13	83	164811	4.705	ug/L	97
39) cis-1,3-Dichloropropene	7.63	75	208628	4.524	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	975600	45.048	ug/L	98
42) Toluene	7.99	91	541649	4.655	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	180335	4.505	ug/L	97
45) 1,1,2-Trichloroethane	8.42	97	91764	4.623	ug/L	100
47) Tetrachloroethene	8.57	164	91958	4.688	ug/L	98
48) 2-Hexanone	8.71	43	696551	44.922	ug/L	99
49) Dibromochloromethane	8.83	129	102936	4.537	ug/L	99
50) 1,2-Dibromoethane	8.95	107	86478	4.530	ug/L	96
51) Chlorobenzene	9.47	112	330565	4.657	ug/L	99
52) Ethylbenzene	9.59	91	611109	4.721	ug/L	99
53) m,p-Xylene	9.71	106	229324	4.681	ug/L	100
54) o-Xylene	10.12	106	224258	4.651	ug/L	97
55) Styrene	10.13	104	380461	4.616	ug/L	99
56) Isopropylbenzene	10.50	105	602722	4.766	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	115539	4.471	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	87261	4.526	ug/L	100
61) Bromoform	10.31	173	57934	4.294	ug/L	97
62) 1,3-Dichlorobenzene	11.76	146	265312	4.665	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	267064	4.683	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	246443	4.604	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	20273	4.085	ug/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	198816	4.767	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	174177	4.550	ug/L	100
69) Naphthalene	14.12	128	324746	4.189	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	155532	4.560	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.743 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

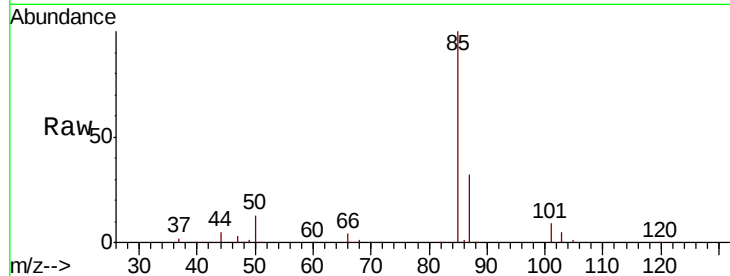
ClientSampleId :

Tot Ion: 85 Resp: 143153

Ion Ratio Lower Upper

85 100

87 32.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037805.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037805.D (-9) (-)

1.39

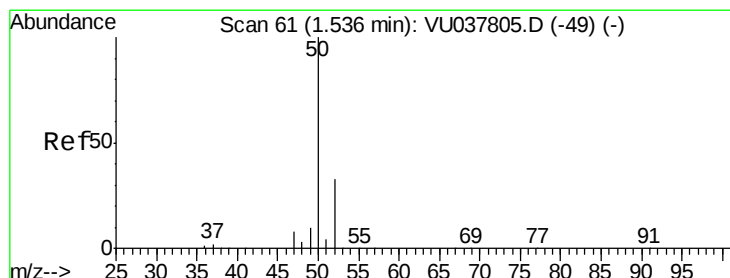
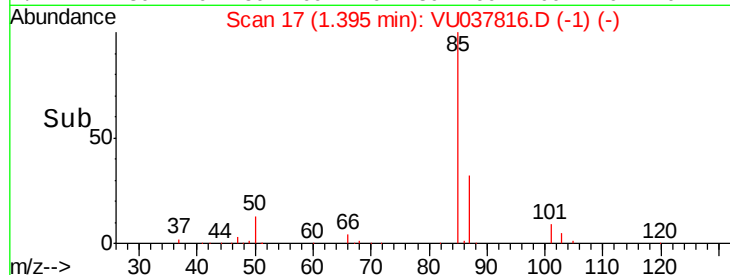
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 3.955 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037816.D

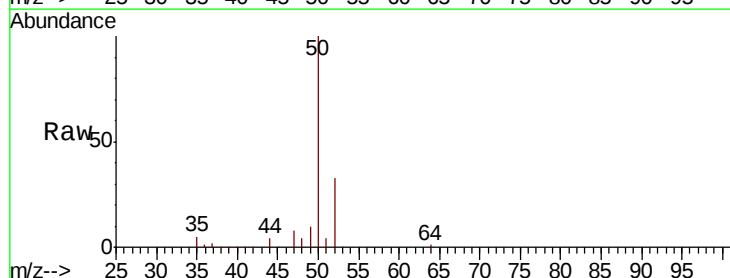
Acq: 20 Apr 2020 16:17

Tgt Ion: 50 Resp: 147584

Ion Ratio Lower Upper

50 100

52 33.1 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU037805.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU037805.D (-49) (-)

1.54

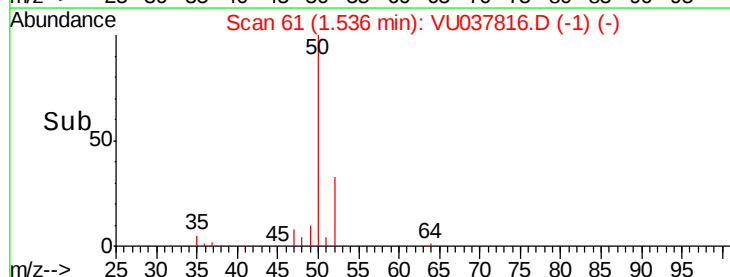
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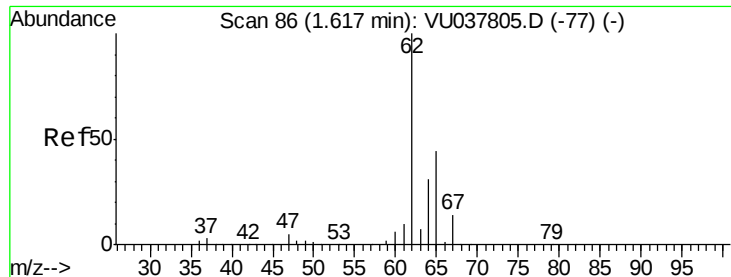
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.575 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

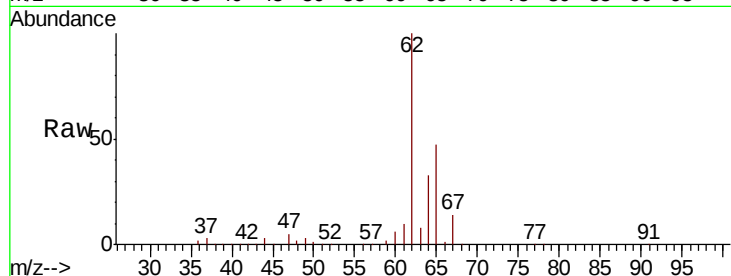
ClientSampleId :

Tot Ion: 62 Resp: 167686

Ion Ratio Lower Upper

62 100

64 33.4 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VU037805.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037805.D (-77) (-)

1.62

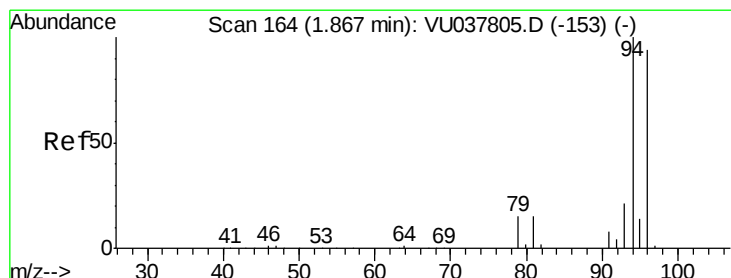
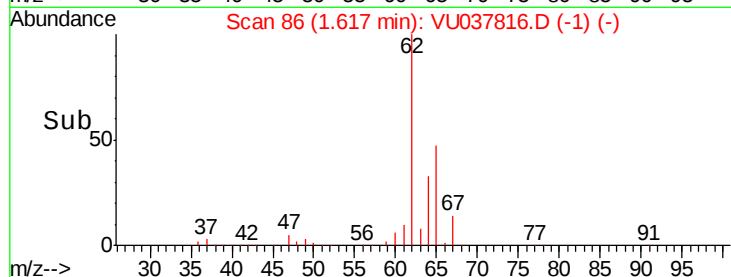
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 3.059 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU037816.D

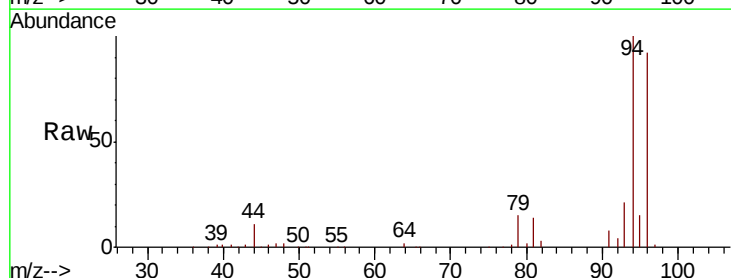
Acq: 20 Apr 2020 16:17

Tgt Ion: 94 Resp: 64385

Ion Ratio Lower Upper

94 100

96 92.5 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037805.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU037805.D (-153) (-)

1.87

50000

40000

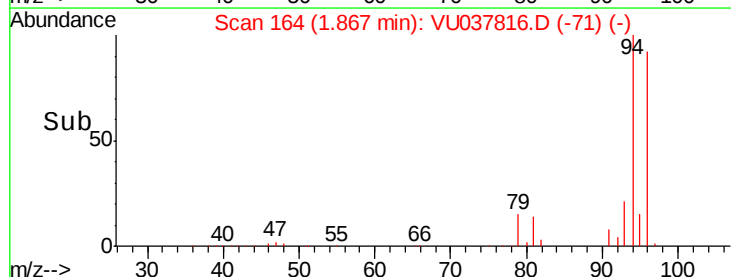
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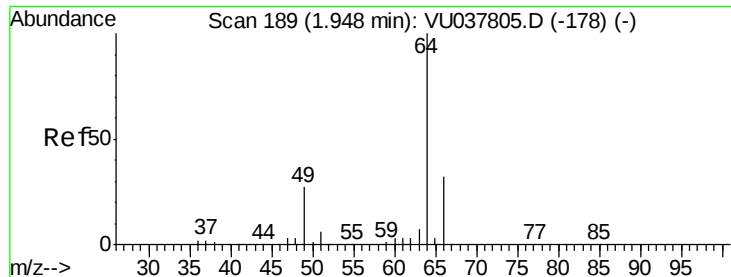
20000

10000

0

Time-->





#8

Chloroethane

Concen: 4.413 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

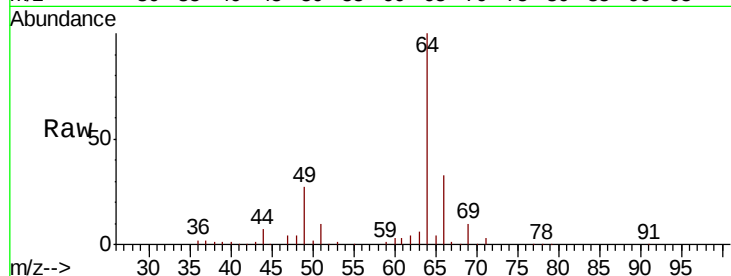
ClientSampleId :

Tot Ion: 64 Resp: 94993

Ion Ratio Lower Upper

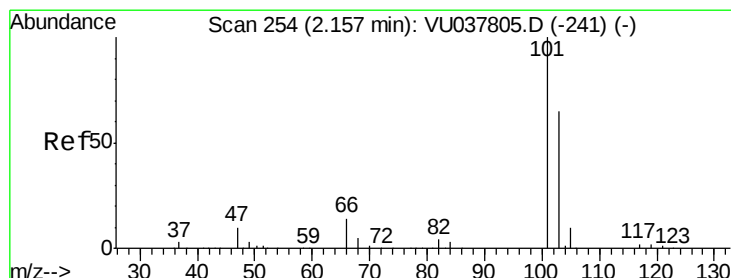
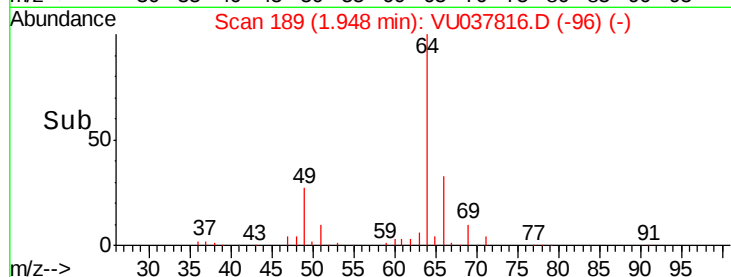
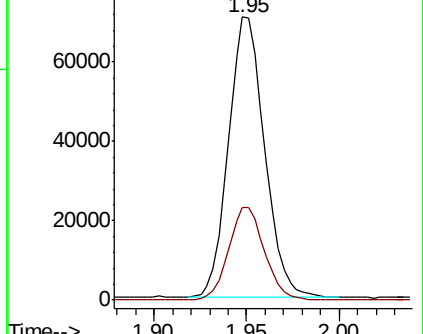
64 100

66 32.7 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VU037805.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU037805.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 4.637 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU037816.D

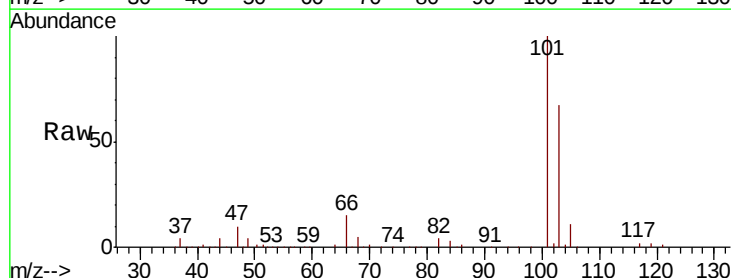
Acq: 20 Apr 2020 16:17

Tgt Ion:101 Resp: 182392

Ion Ratio Lower Upper

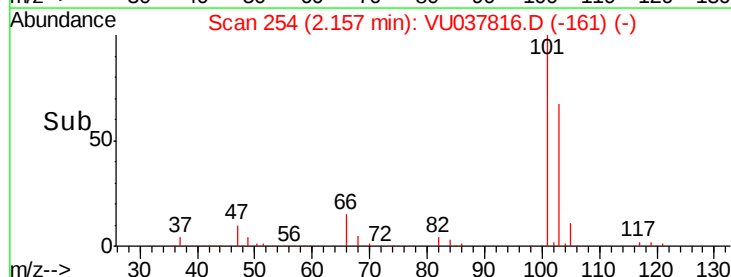
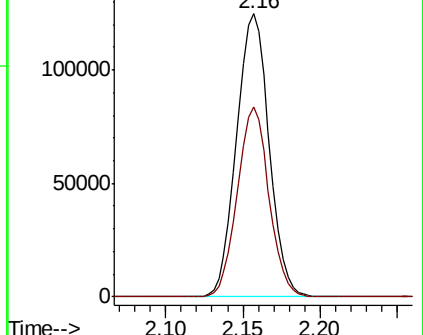
101 100

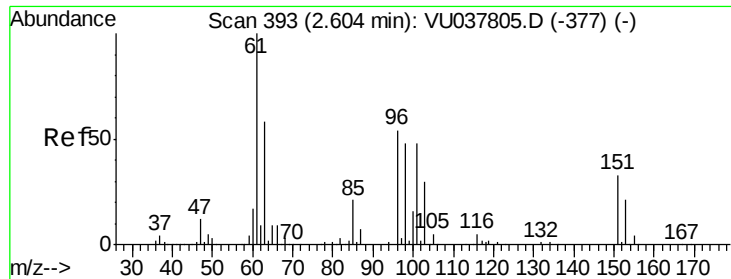
103 65.0 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU037805.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU037805.D (-241) (-)





#10

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

Concen: 4.648 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

ClientSampled :

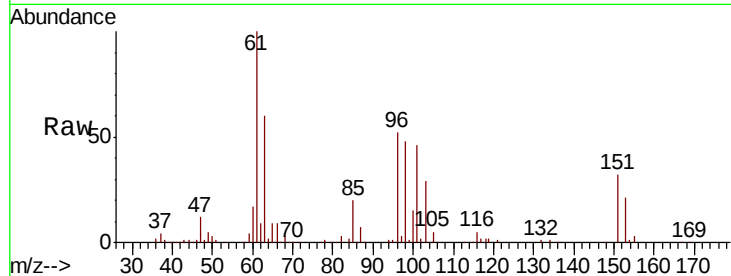
Tot Ion:101 Resp: 106442

Ion Ratio Lower Upper

101 100

85 44.2 34.5 51.7

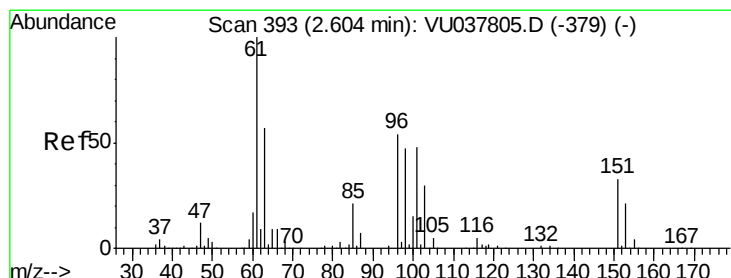
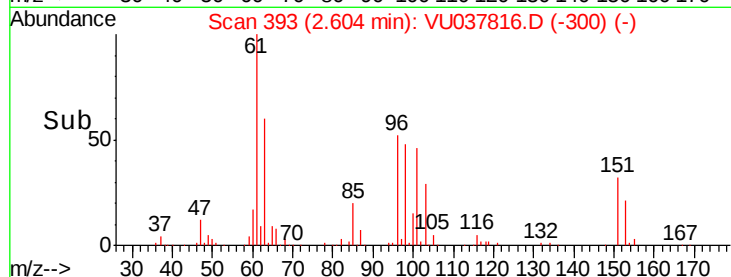
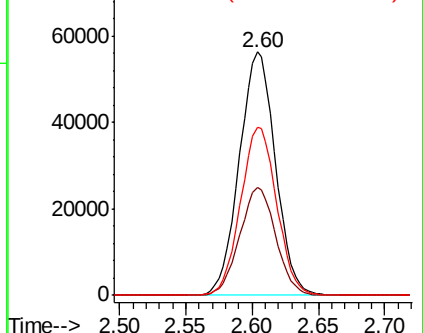
151 69.0 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.343 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

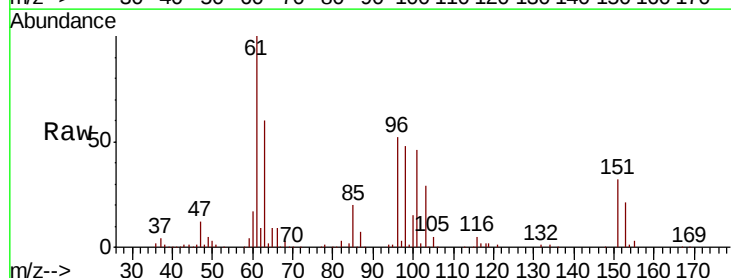
Tgt Ion: 96 Resp: 104273

Ion Ratio Lower Upper

96 100

61 192.3 127.7 237.3

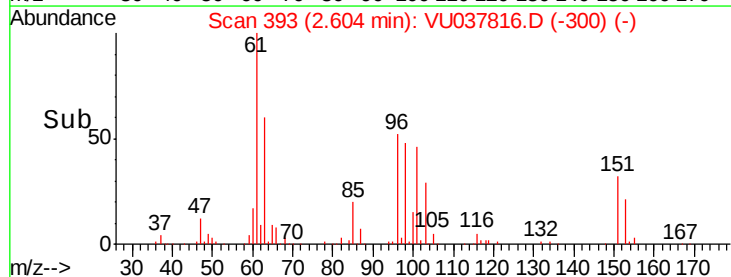
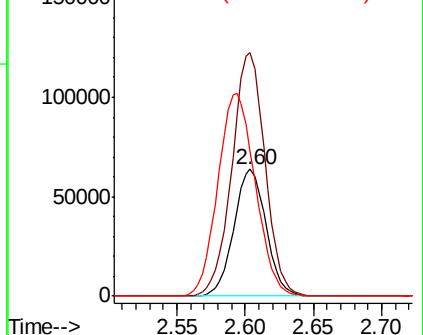
63 114.5 85.0 157.8

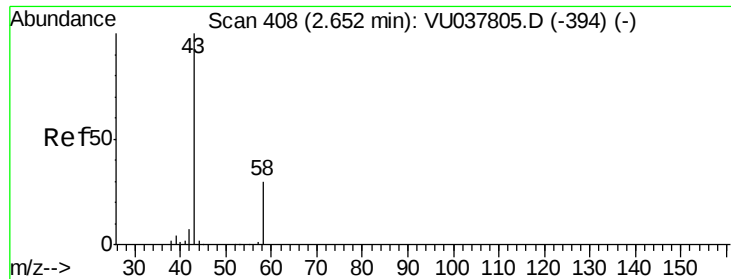


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 43.929 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

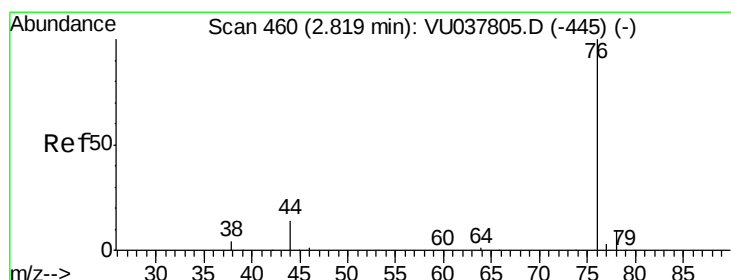
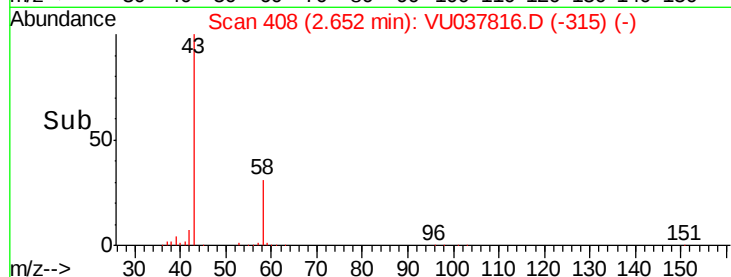
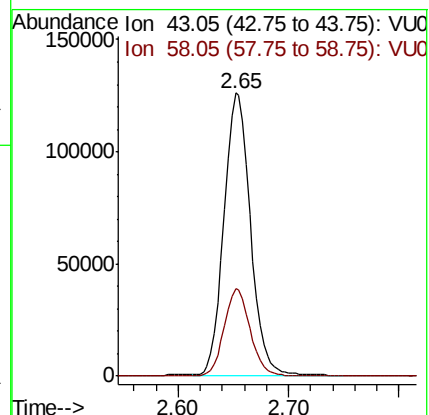
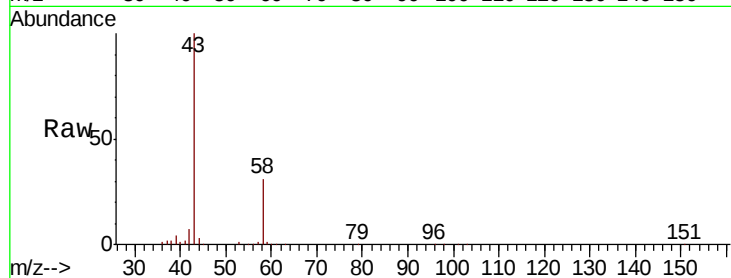
ClientSampleId :

Tot Ion: 43 Resp: 209395

Ion Ratio Lower Upper

43 100

58 30.7 0.0 64.8



#14

Carbon disulfide

Concen: 4.200 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037816.D

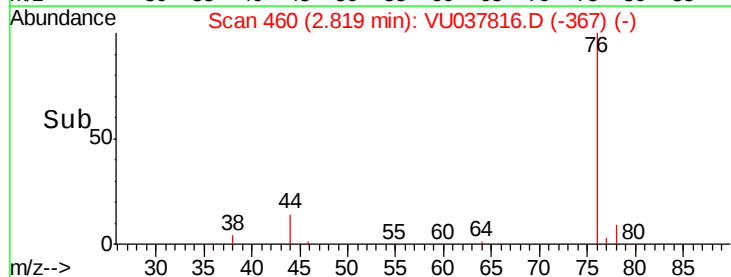
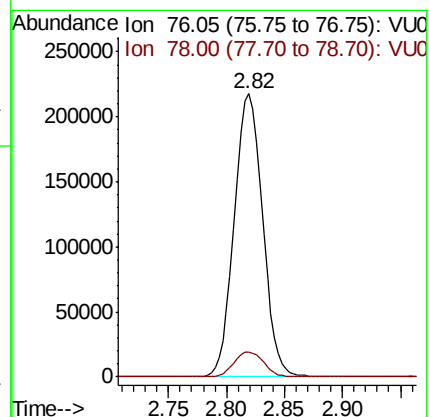
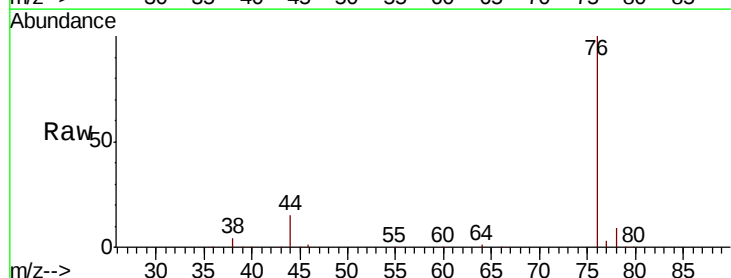
Acq: 20 Apr 2020 16:17

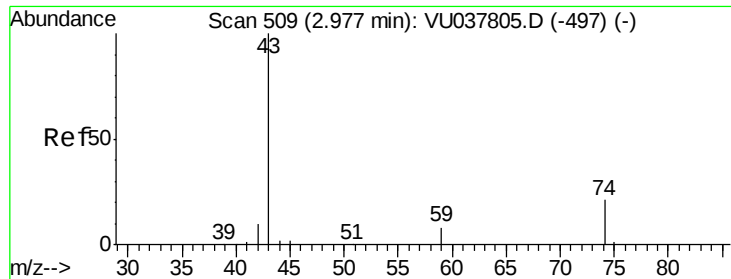
Tgt Ion: 76 Resp: 368128

Ion Ratio Lower Upper

76 100

78 8.9 7.4 11.0

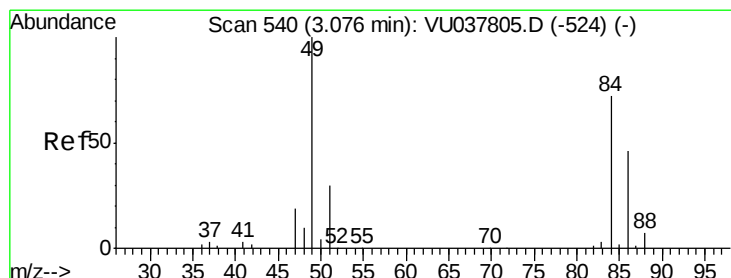
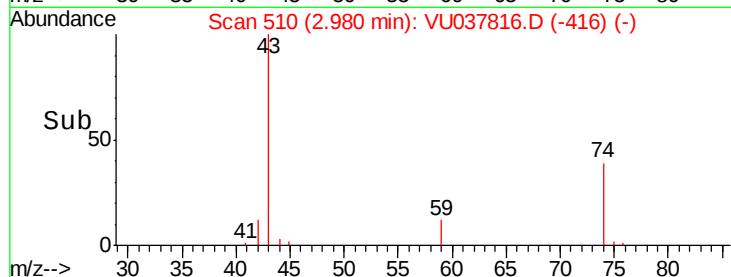
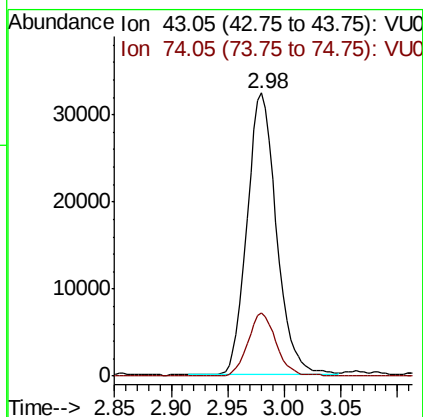
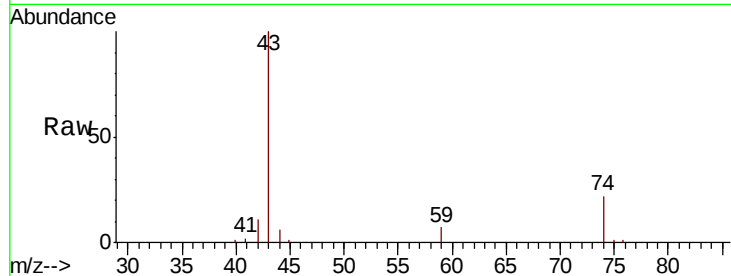




#15
Methvl Acetate
Concen: 4.437 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

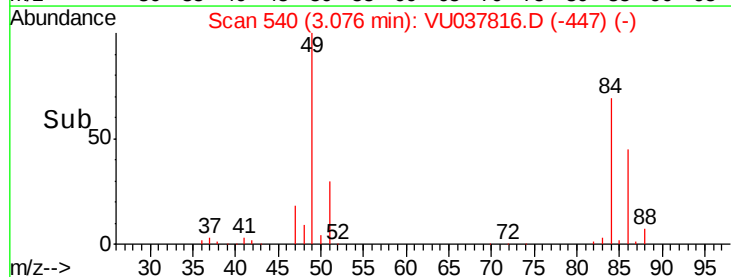
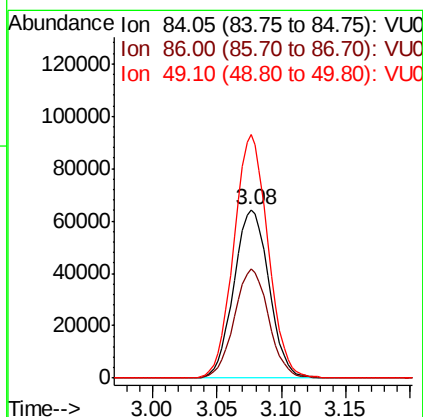
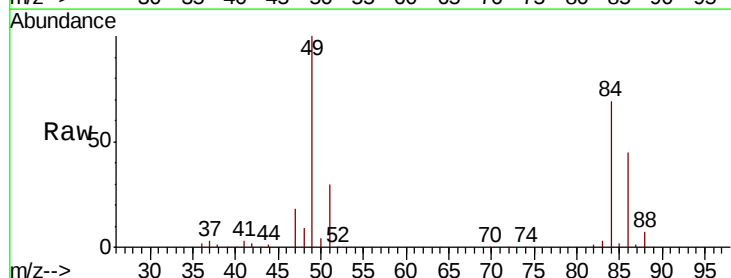
Instrument :
MSVOA_U
ClientSampleId :

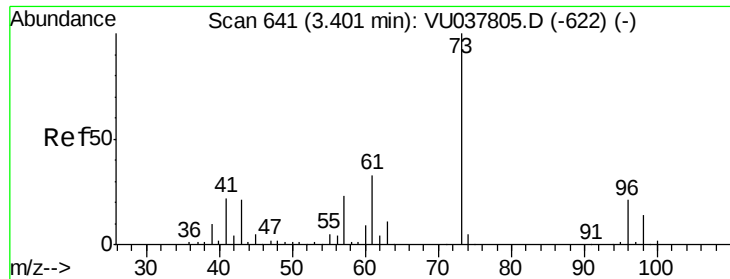
Tot Ion: 43 Resp: 58799
Ion Ratio Lower Upper
43 100
74 21.4 17.2 25.8



#16
Methylene chloride
Concen: 4.518 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Tgt Ion: 84 Resp: 122275
Ion Ratio Lower Upper
84 100
86 64.4 44.2 82.0
49 144.4 92.4 171.6

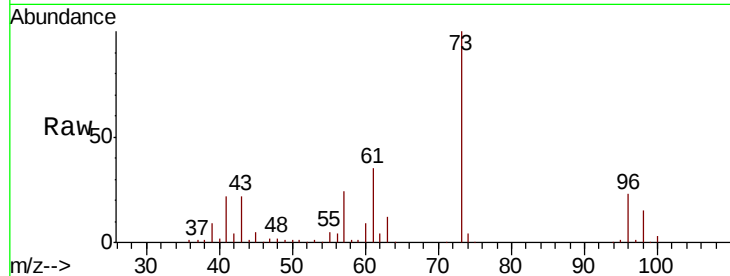




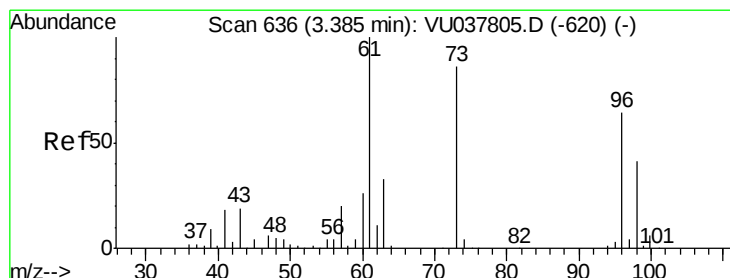
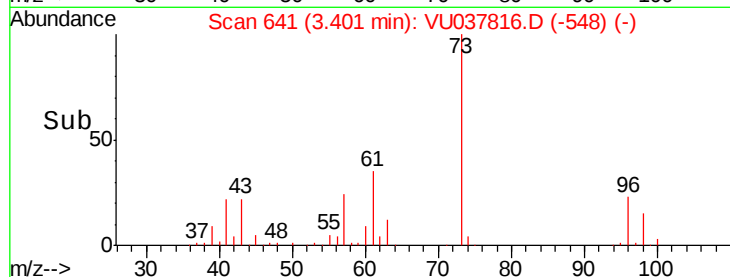
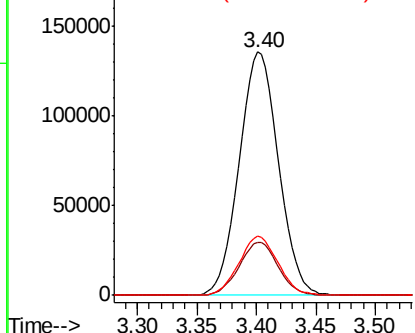
#17
Methvl tert-butvl Ether
Concen: 4.462 ug/L
RT: 3.40 min Scan# 641
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 310143
Ion Ratio Lower Upper
73 100
43 21.9 16.4 24.6
57 24.0 18.4 27.6

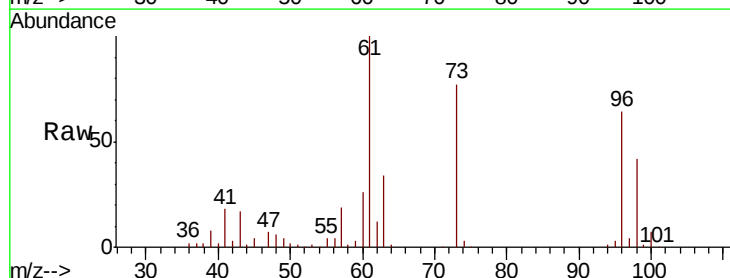


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

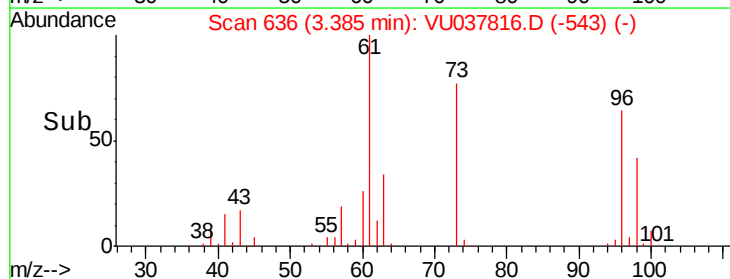
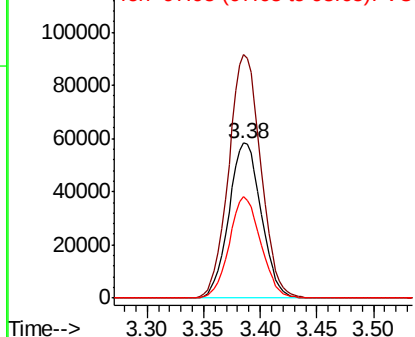


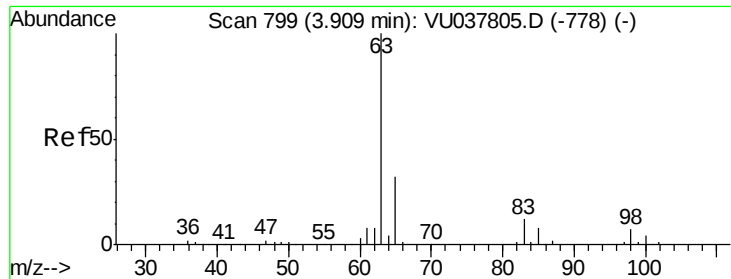
#18
trans-1,2-Dichloroethene
Concen: 4.473 ug/L
RT: 3.38 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Tgt Ion: 96 Resp: 116414
Ion Ratio Lower Upper
96 100
61 156.9 106.7 198.3
98 65.1 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

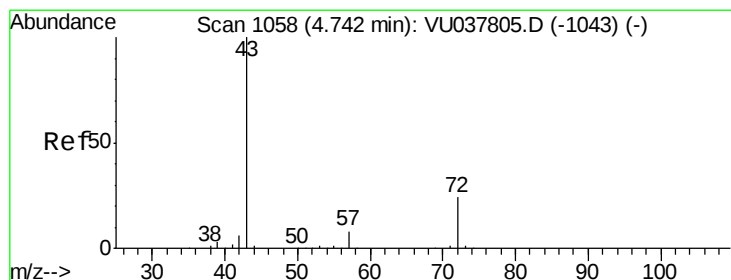
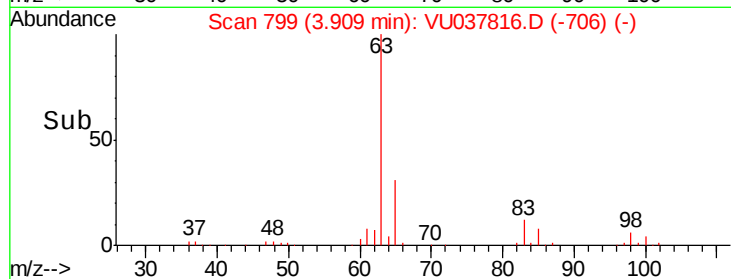
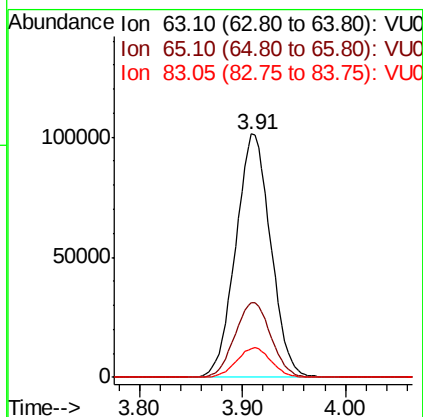
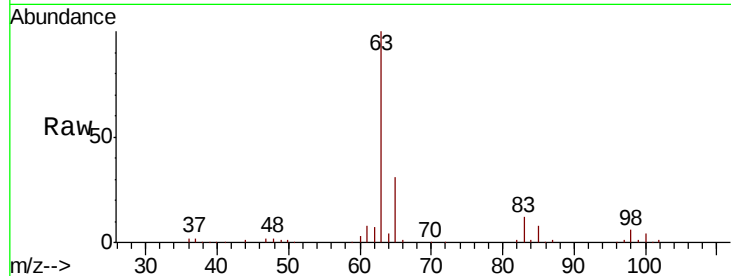




#19
 1,1-Dichloroethane
 Concen: 4.744 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

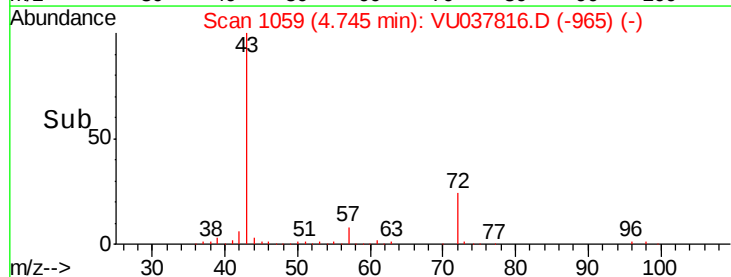
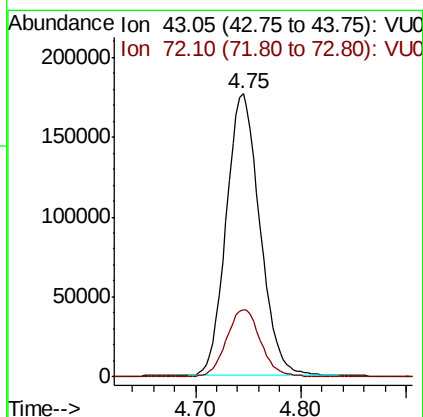
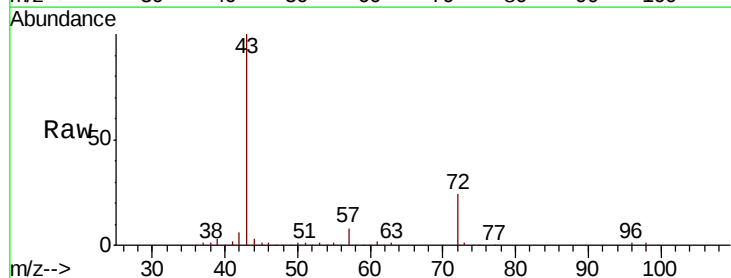
Instrument :
 MSVOA_U
 ClientSampleId :

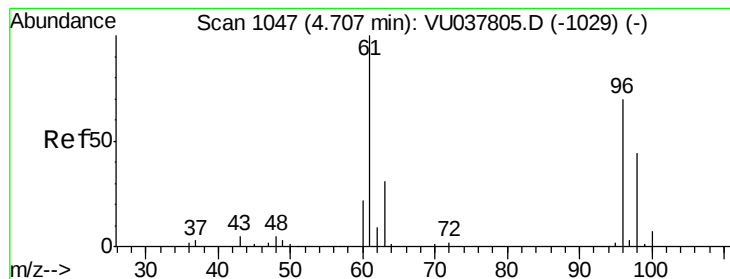
Tot Ion: 63 Resp: 238814
 Ion Ratio Lower Upper
 63 100
 65 30.9 21.6 40.2
 83 11.9 8.6 16.0



#21
 2-Butanone
 Concen: 44.934 ug/L
 RT: 4.75 min Scan# 1059
 Delta R.T. 0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion: 43 Resp: 389150
 Ion Ratio Lower Upper
 43 100
 72 24.7 12.6 37.6





#22

cis-1,2-Dichloroethene

Concen: 4.531 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :
MSVOA_U
ClientSampleId :

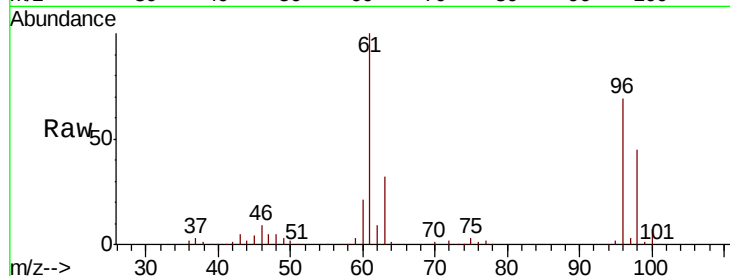
Tot Ion: 96 Resp: 127412

Ion Ratio Lower Upper

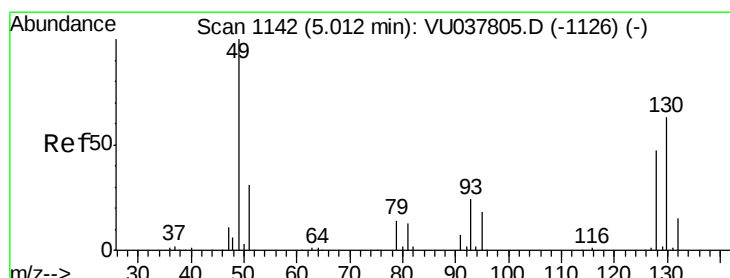
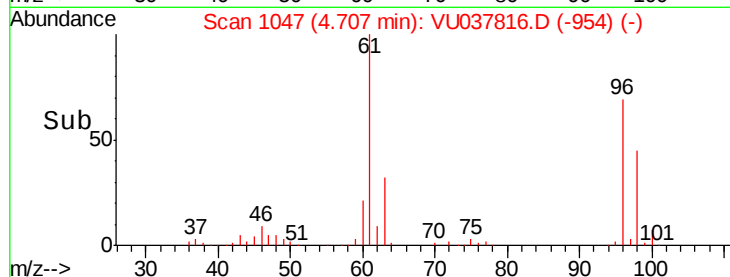
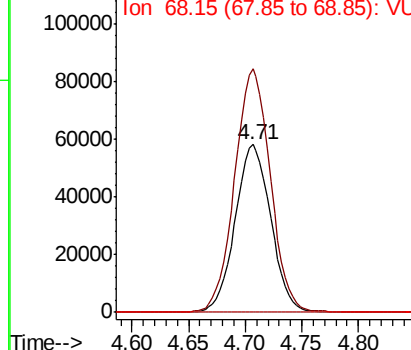
96 100

61 145.3 97.0 180.2

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: 4.395 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Tgt Ion: 128 Resp: 52386

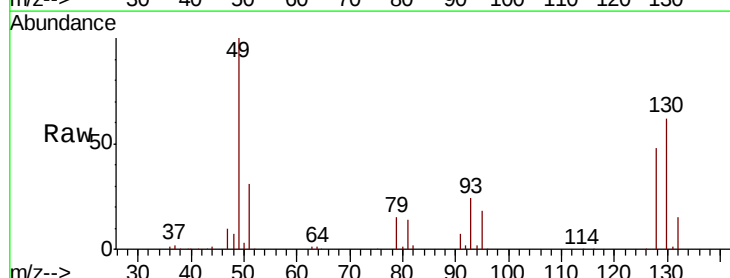
Ion Ratio Lower Upper

128 100

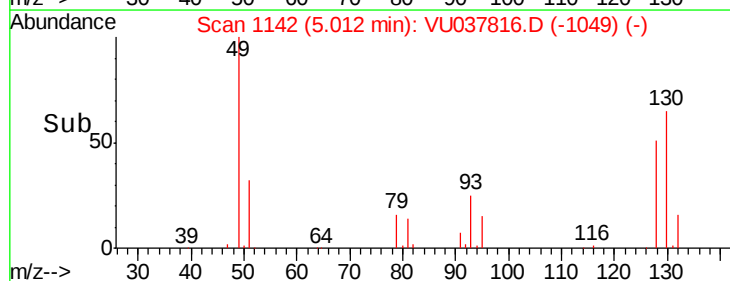
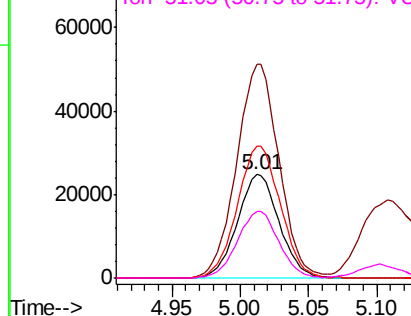
49 207.1 138.6 257.4

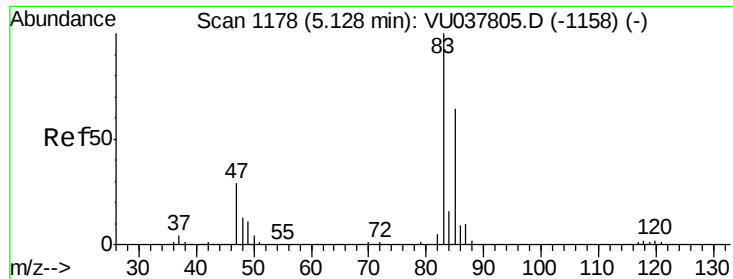
130 127.8 91.3 169.5

51 64.5 49.3 73.9



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

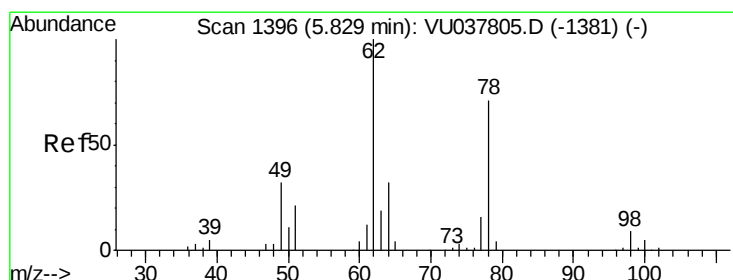
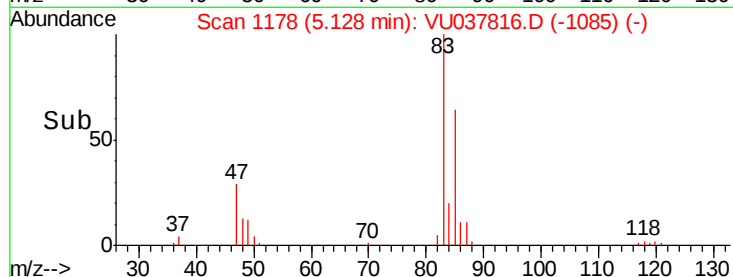
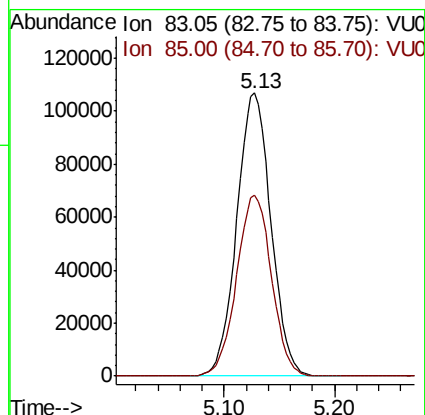
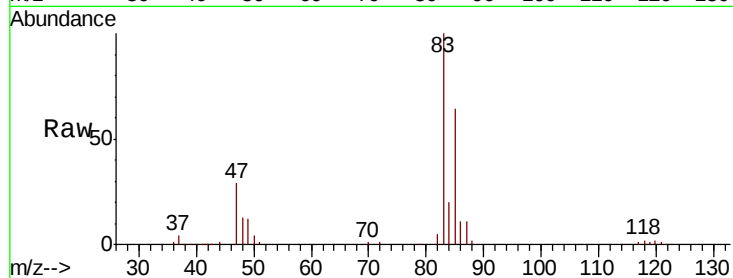




#25
Chloroform
Concen: 4.801 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

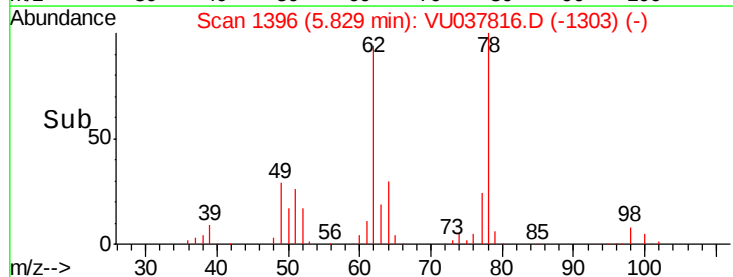
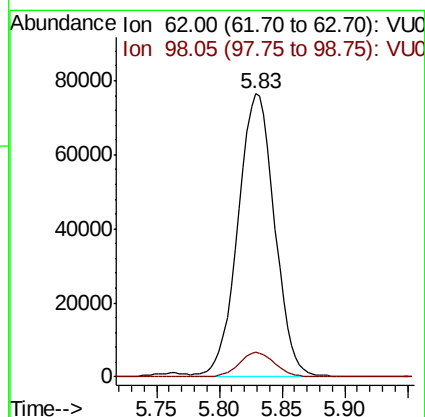
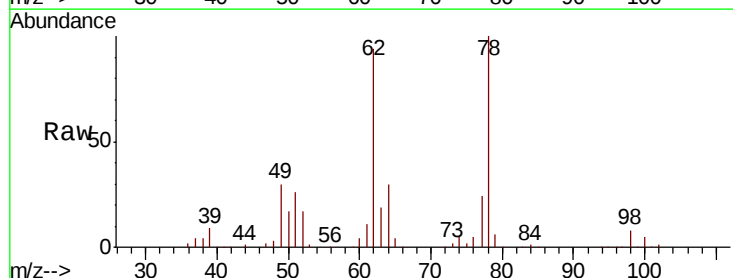
Instrument :
MSVOA_U
ClientSampleId :

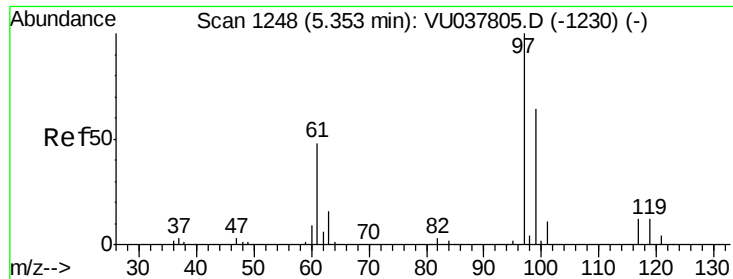
Tot Ion: 83 Resp: 229568
Ion Ratio Lower Upper
83 100
85 63.9 44.9 83.3



#27
1,2-Dichloroethane
Concen: 4.795 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Tgt Ion: 62 Resp: 154988
Ion Ratio Lower Upper
62 100
98 8.7 7.6 11.4

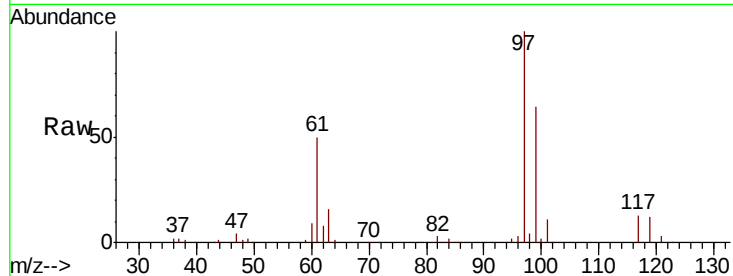




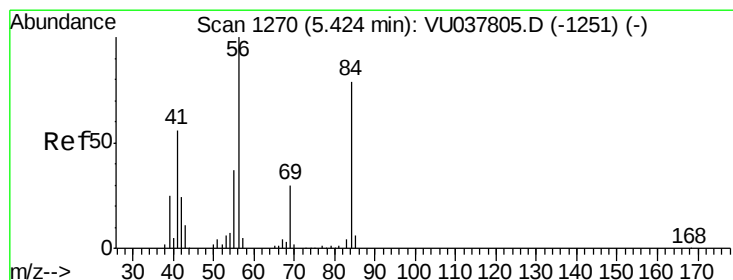
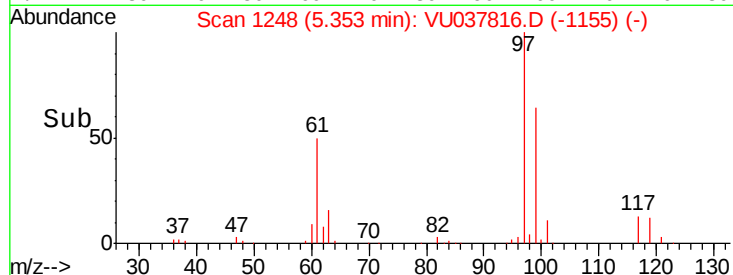
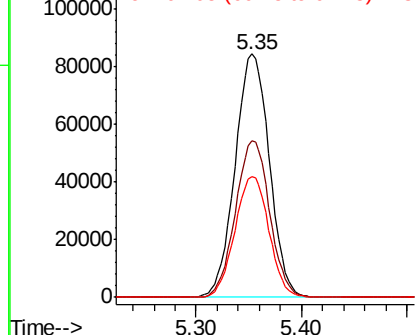
#29
 1,1,1-Trichloroethane
 Concen: 4.670 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.0	78.0
61	49.4	37.8	56.8

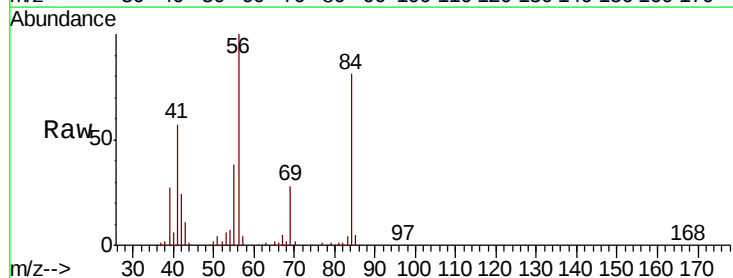


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

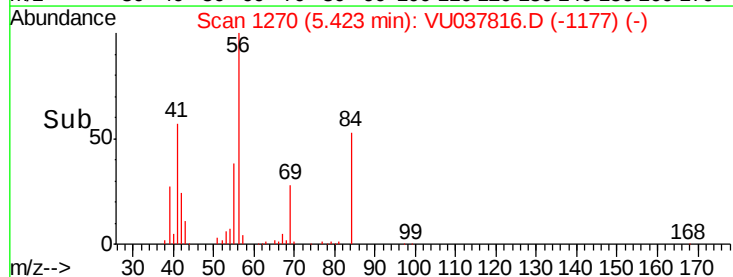
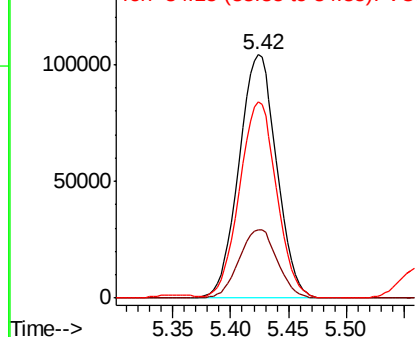


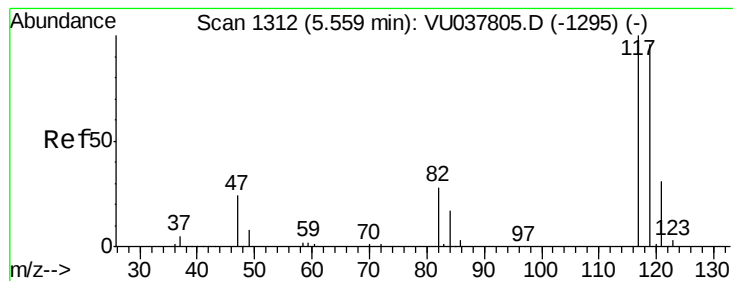
#30
 Cyclohexane
 Concen: 4.660 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.6	23.9	35.9
84	79.7	65.6	98.4



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: 4.731 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

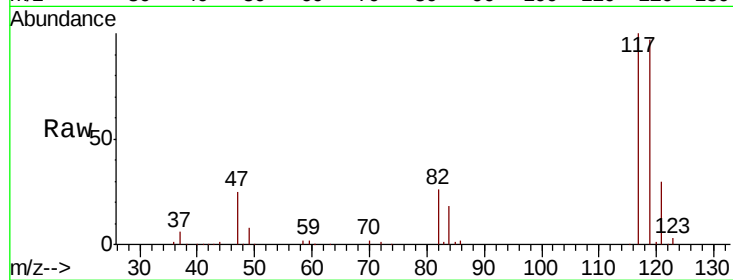
ClientSampleId :

Tot Ion:117 Resp: 153787

Ion Ratio Lower Upper

117 100

119 96.7 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.56

80000

60000

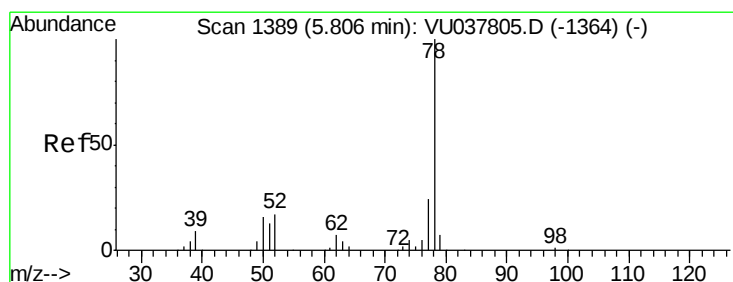
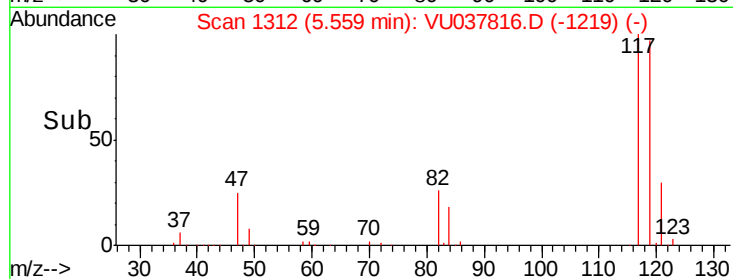
40000

20000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 4.594 ug/L

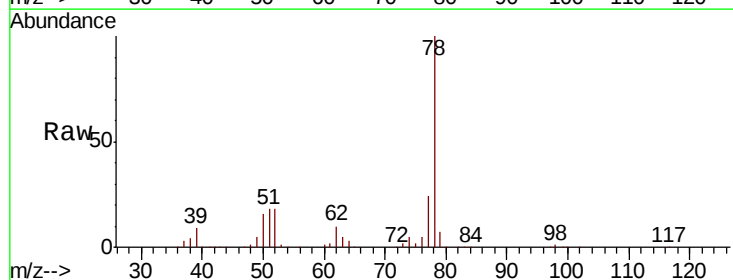
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Tgt Ion: 78 Resp: 510229



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.81

300000

250000

200000

150000

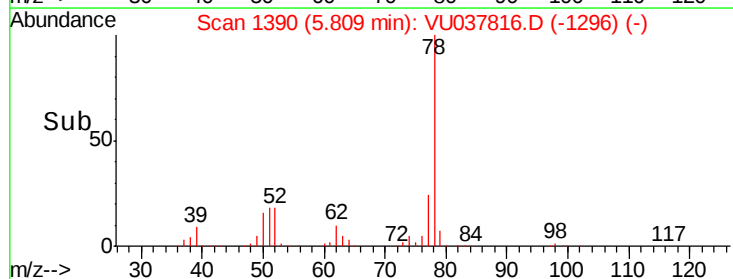
100000

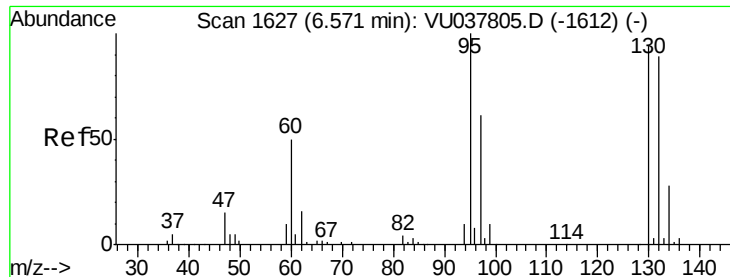
50000

0

Time-->

5.70 5.80 5.90

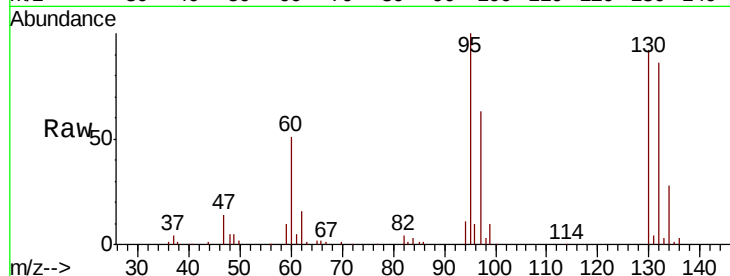




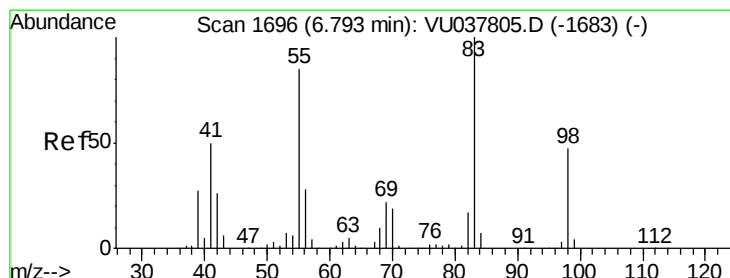
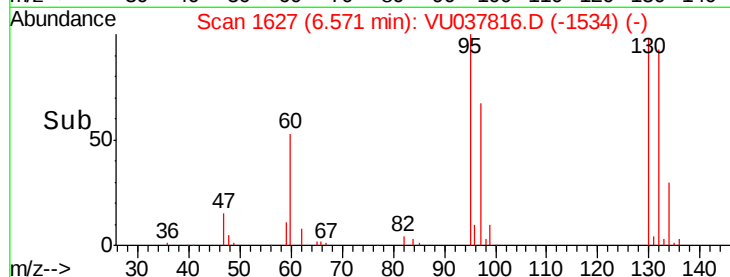
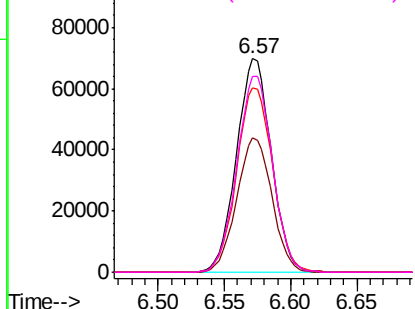
#34
 Trichloroethene
 Concen: 4.662 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 127257
 Ion Ratio Lower Upper
 95 100
 97 62.7 45.4 84.2
 132 86.3 63.7 118.3
 130 91.5 68.7 127.5

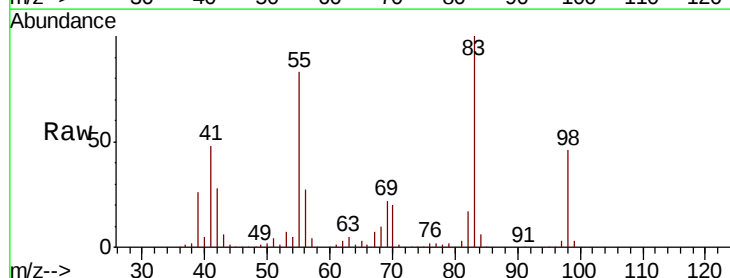


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

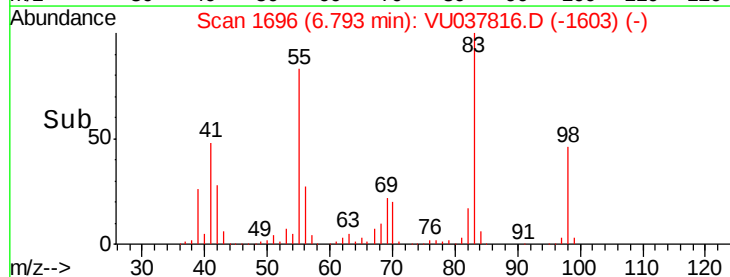
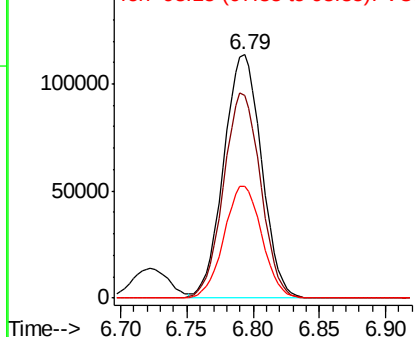


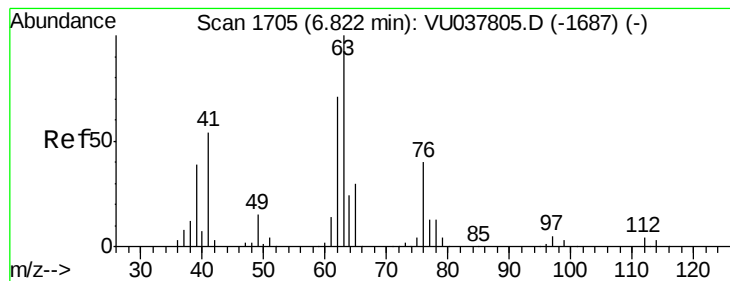
#35
 Methylcyclohexane
 Concen: 4.715 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion: 83 Resp: 225563
 Ion Ratio Lower Upper
 83 100
 55 82.2 65.5 98.3
 98 45.8 38.2 57.4



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





#37

1,2-Dichloropropane

Concen: 4.713 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

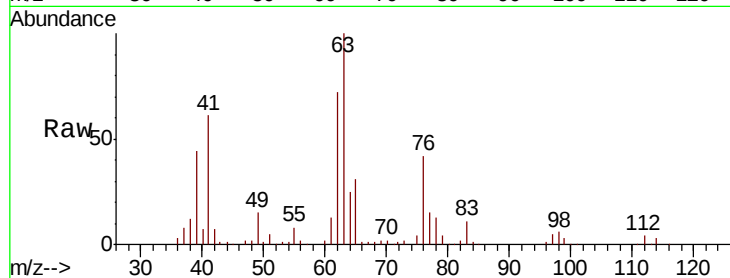
ClientSampleId :

Tot Ion: 63 Resp: 138824

Ion Ratio Lower Upper

63 100

112 4.1 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VU037816.D (-1612) (-)

Ion 112.10 (111.80 to 112.80): VU037816.D (-1612) (-)

6.82

80000

60000

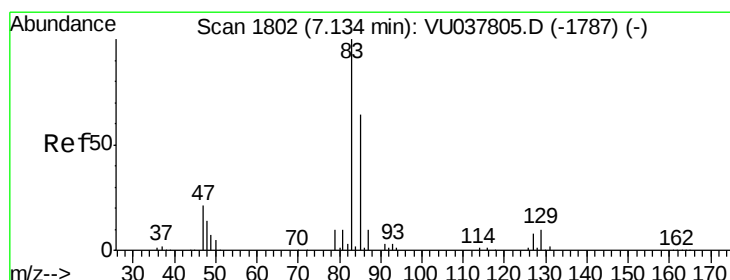
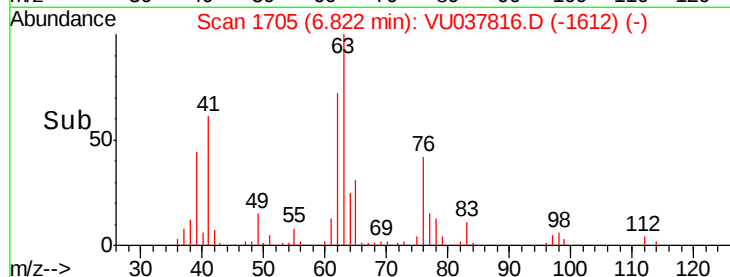
40000

20000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 4.705 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

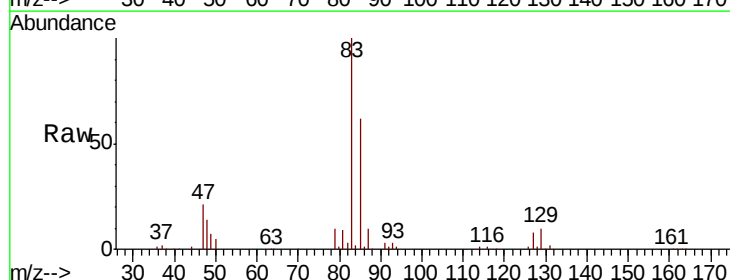
Tgt Ion: 83 Resp: 164811

Ion Ratio Lower Upper

83 100

85 62.1 45.1 83.7

127 7.7 6.6 9.8



Abundance Ion 82.95 (82.65 to 83.65): VU037816.D (-1709) (-)

Ion 85.00 (84.70 to 85.70): VU037816.D (-1709) (-)

Ion 126.90 (126.60 to 127.60): VU037816.D (-1709) (-)

120000

100000

80000

60000

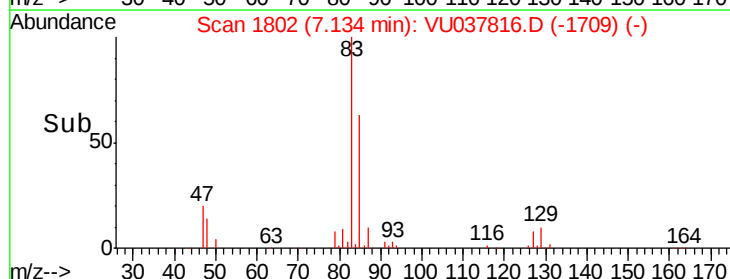
40000

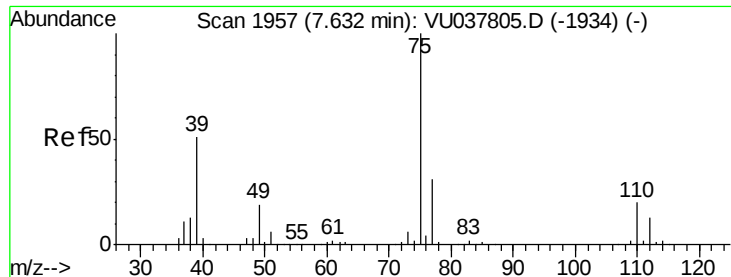
20000

0

7.05 7.10 7.15 7.20 7.25

Time-->

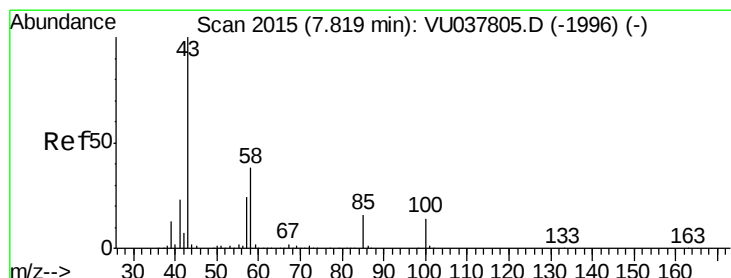
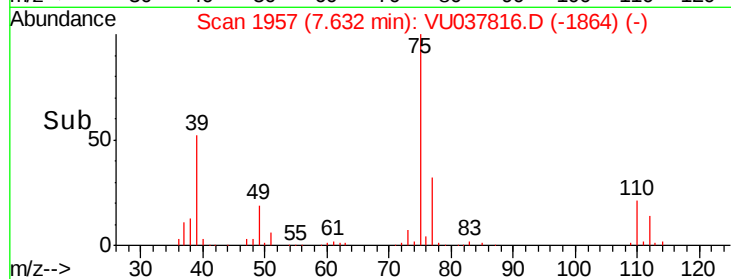
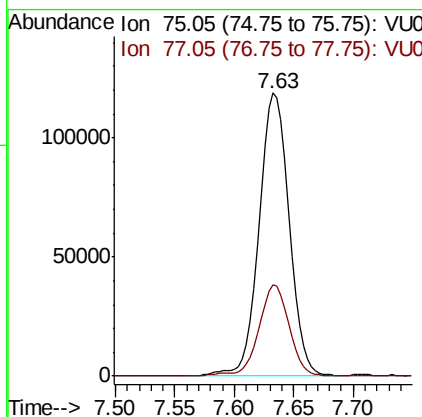
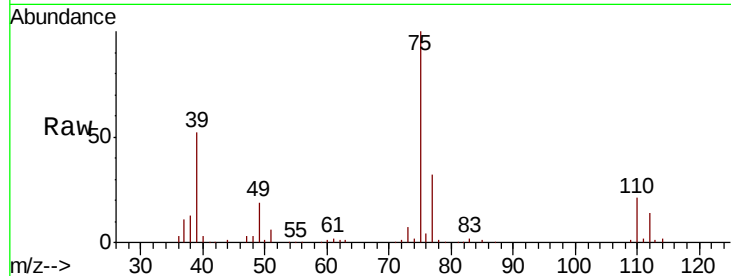




#39
 cis-1,3-Dichloropropene
 Concen: 4.524 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

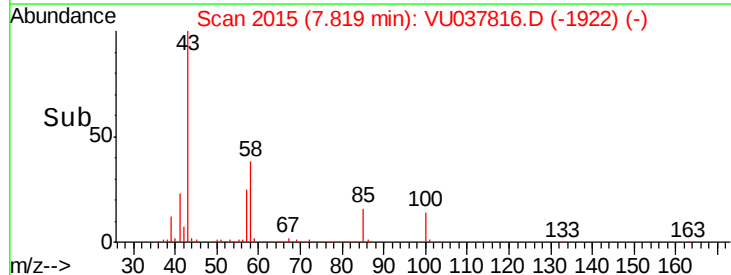
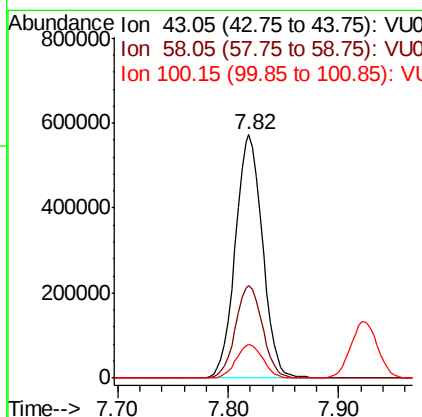
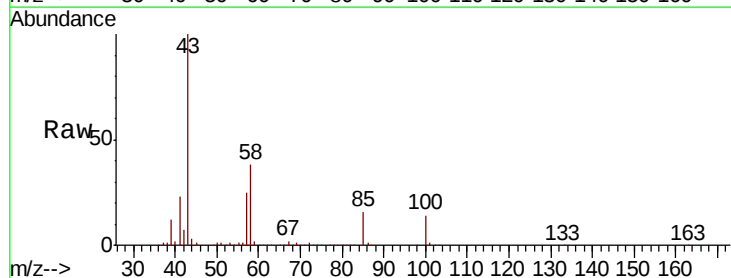
Instrument :
 MSVOA_U
 ClientSampled :

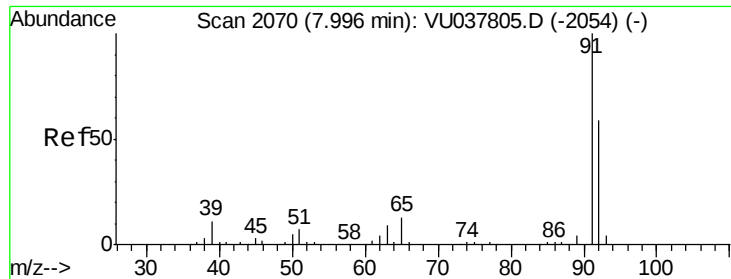
Tot Ion: 75 Resp: 208628
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 45.048 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion: 43 Resp: 975600
 Ion Ratio Lower Upper
 43 100
 58 38.0 31.3 46.9
 100 13.6 11.5 17.3





#42

Toluene

Concen: 4.655 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

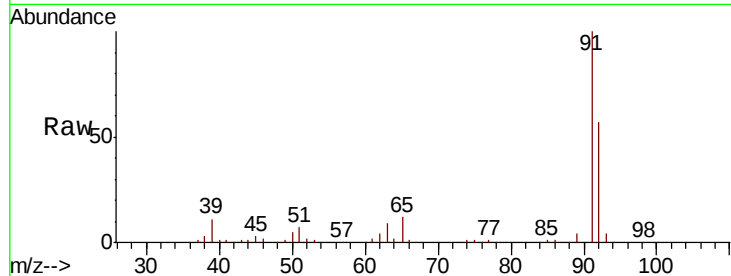
ClientSampleId :

Tot Ion: 91 Resp: 541649

Ion Ratio Lower Upper

91 100

92 57.2 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU037805.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU037805.D (-2054) (-)

7.99

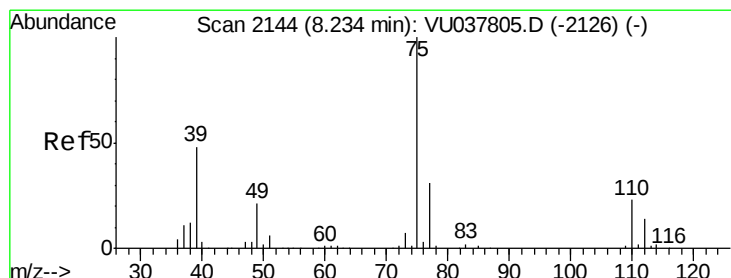
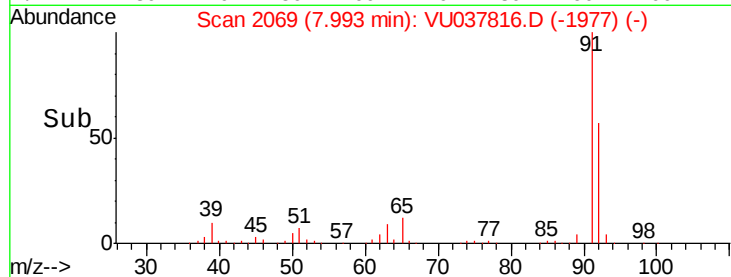
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.505 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037816.D

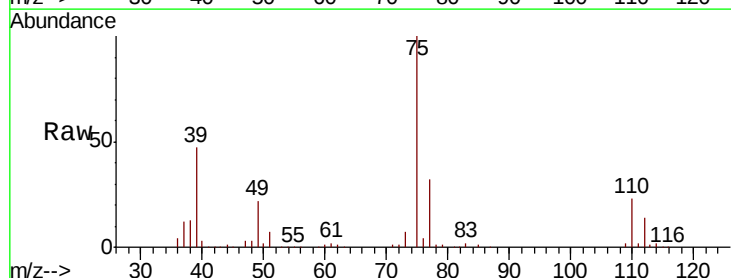
Acq: 20 Apr 2020 16:17

Tgt Ion: 75 Resp: 180335

Ion Ratio Lower Upper

75 100

77 32.4 21.4 39.8



Abundance Ion 75.05 (74.75 to 75.75): VU037805.D (-2126) (-)

Ion 77.05 (76.75 to 77.75): VU037805.D (-2126) (-)

8.23

120000

100000

80000

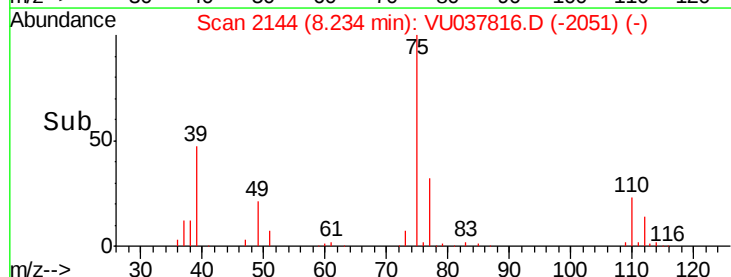
60000

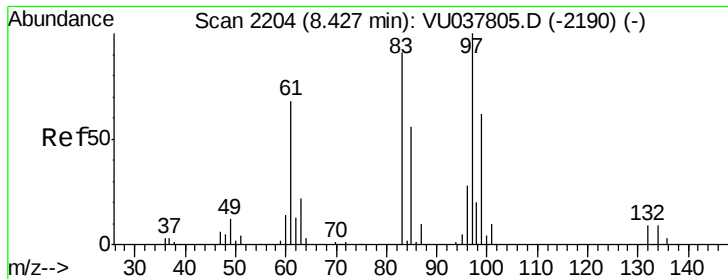
40000

20000

0

Time-->

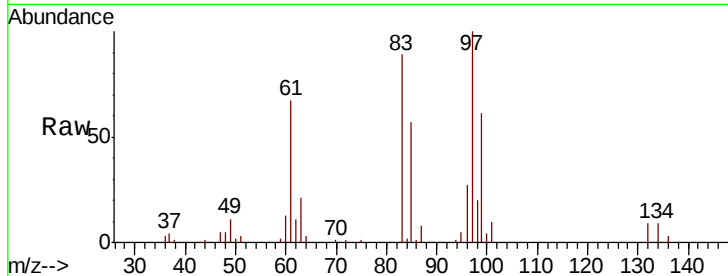




#45
 1,1,2-Trichloroethane
 Concen: 4.623 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	91764
Ion	Ratio	Lower	Upper
97	100		
99	61.2	43.1	80.1
83	89.0	62.4	116.0
85	57.0	39.6	73.6



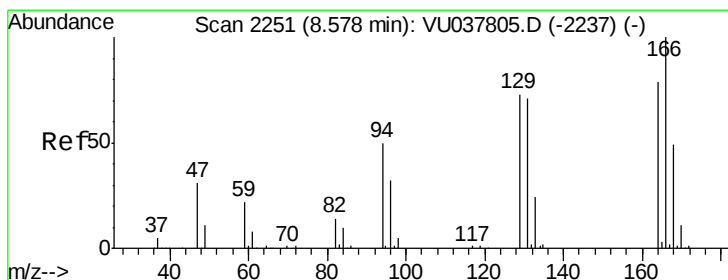
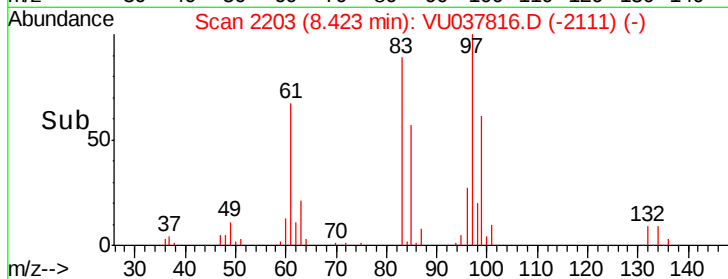
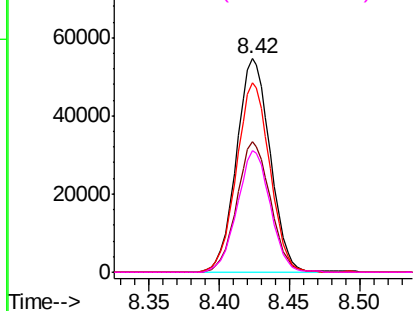
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

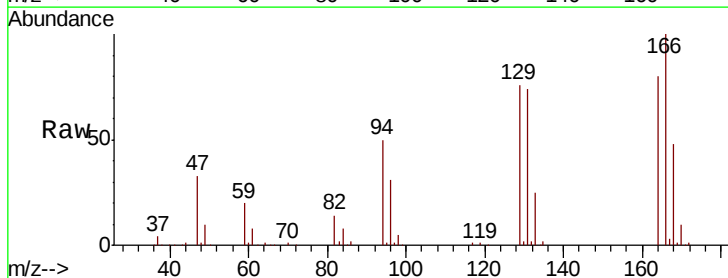
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 4.688 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion:	164	Resp:	91958
Ion	Ratio	Lower	Upper
164	100		
129	95.4	68.1	126.5
131	92.0	65.9	122.5
166	125.1	89.7	166.7



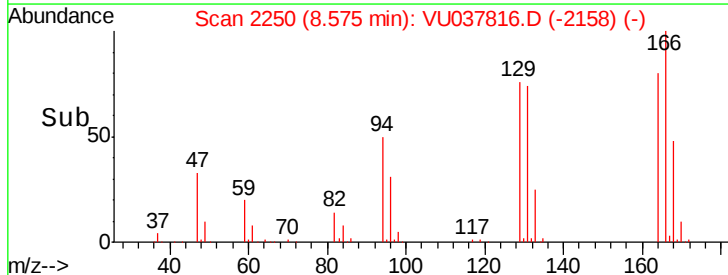
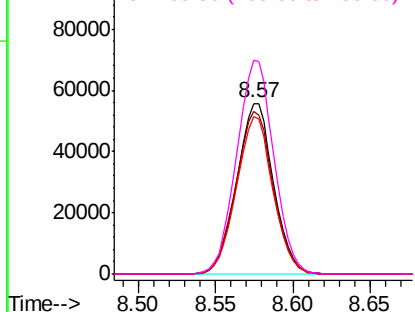
Abundance

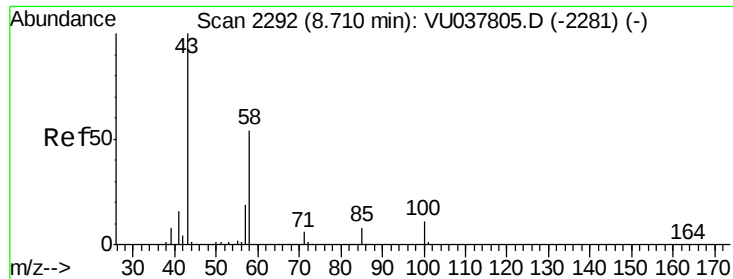
Ion 163.90 (163.60 to 164.60): V

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

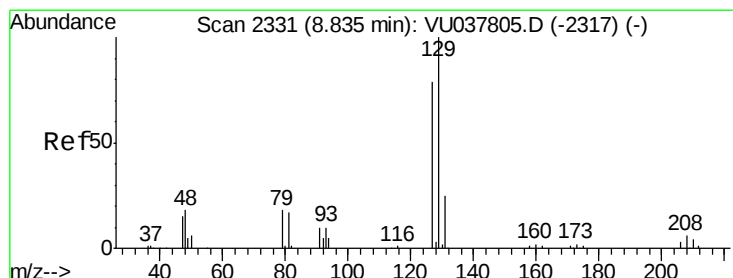
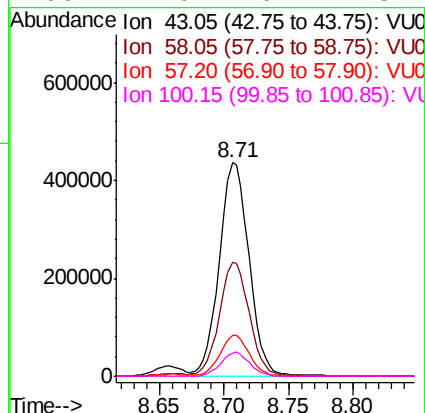
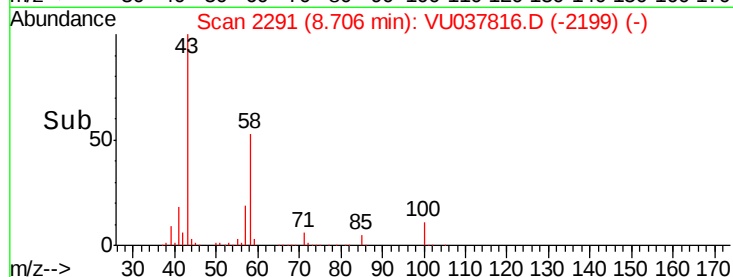
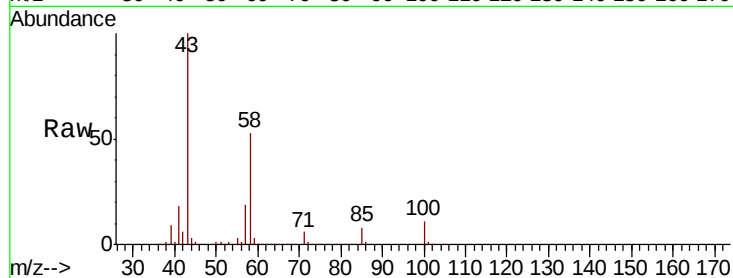




#48
2-Hexanone
Concen: 44.922 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

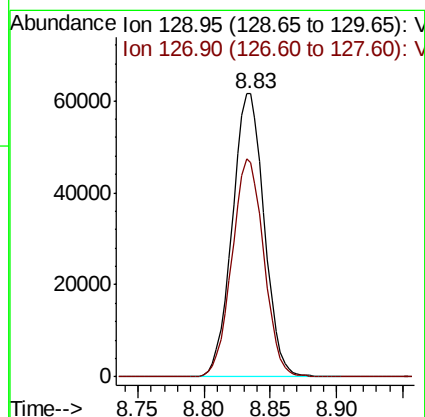
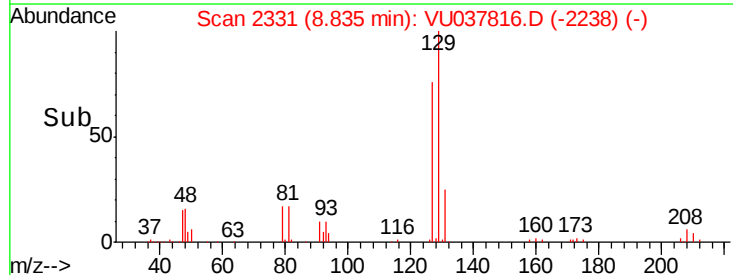
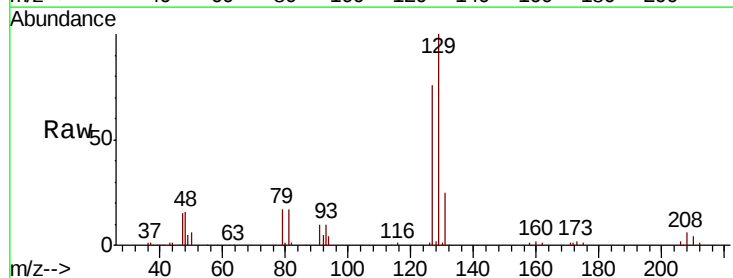
Instrument :
MSVOA_U
ClientSampleId :

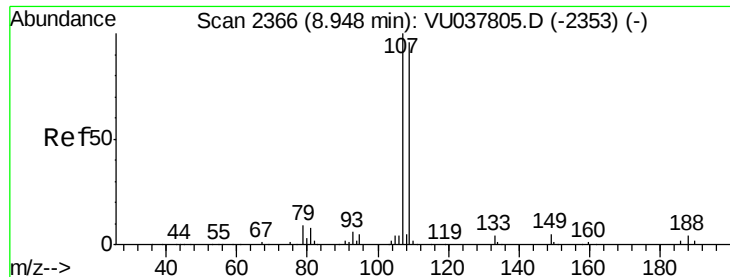
Tot Ion: 43 Resp: 696551
Ion Ratio Lower Upper
43 100
58 53.6 43.6 65.4
57 19.0 15.4 23.0
100 11.0 9.1 13.7



#49
Dibromochloromethane
Concen: 4.537 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Tgt Ion: 129 Resp: 102936
Ion Ratio Lower Upper
129 100
127 75.6 53.3 98.9

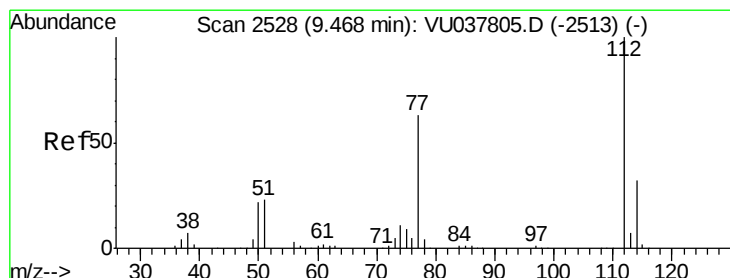
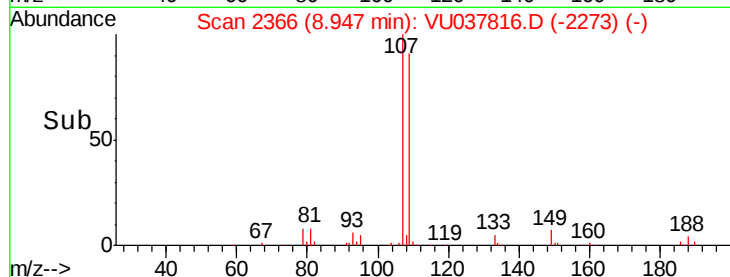
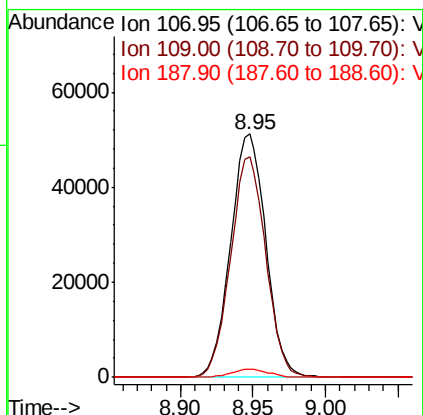
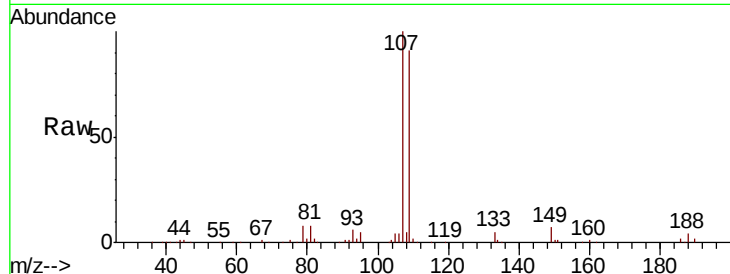




#50
 1,2-Dibromoethane
 Concen: 4.530 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

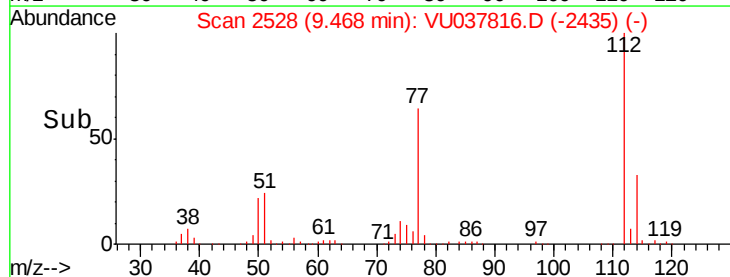
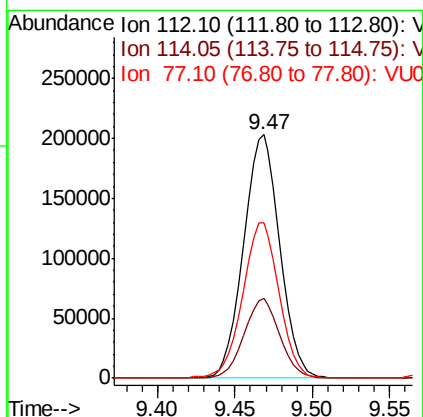
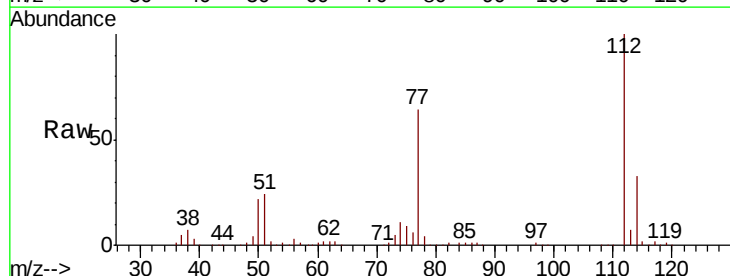
Instrument :
 MSVOA_U
 ClientSampleId :

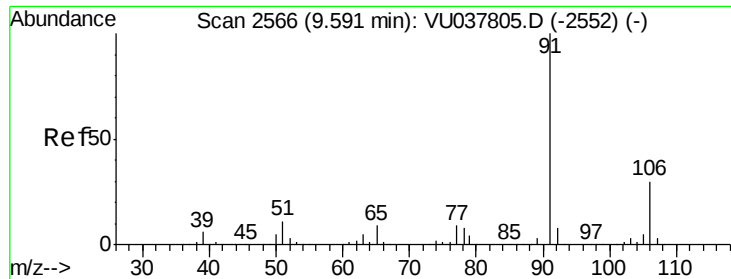
Tot Ion:107 Resp: 86478
 Ion Ratio Lower Upper
 107 100
 109 90.8 66.3 123.1
 188 3.6 2.5 3.7



#51
 Chlorobenzene
 Concen: 4.657 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion:112 Resp: 330565
 Ion Ratio Lower Upper
 112 100
 114 32.6 22.6 42.0
 77 63.9 50.2 75.4

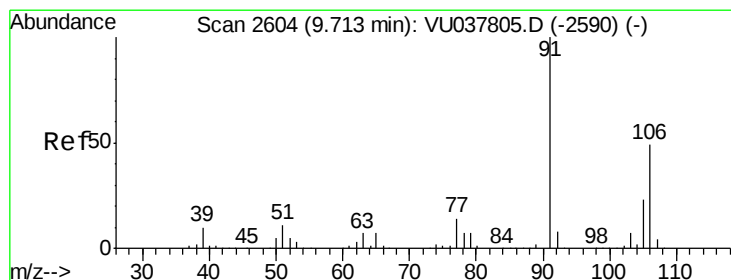
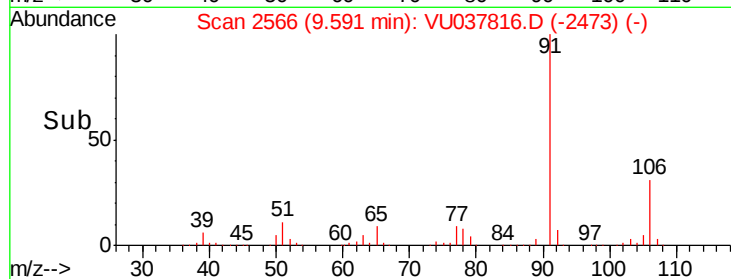
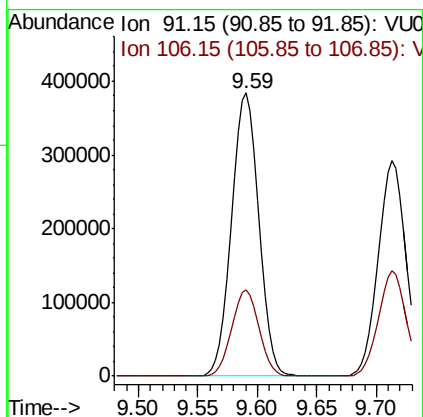
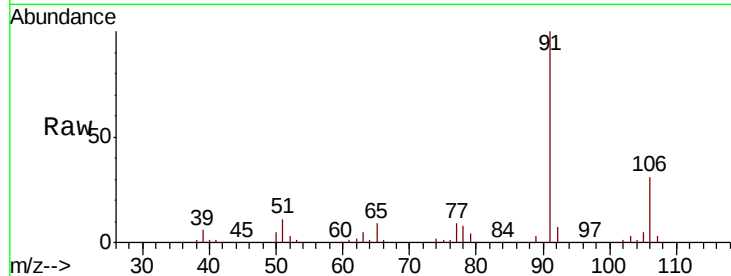




#52
Ethylbenzene
Concen: 4.721 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

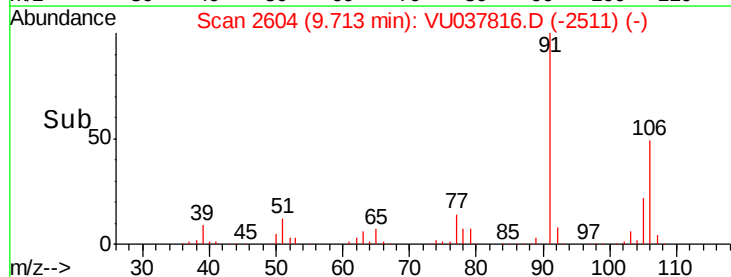
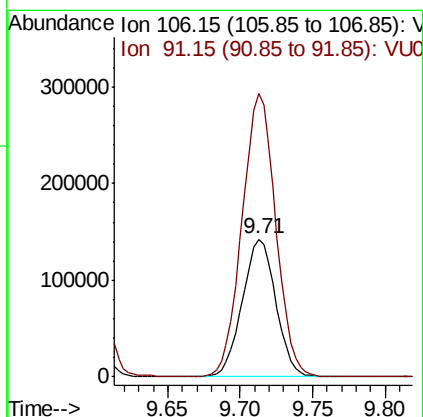
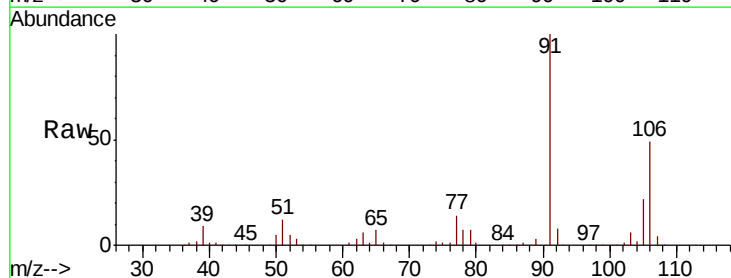
Instrument :
MSVOA_U
ClientSampleId :

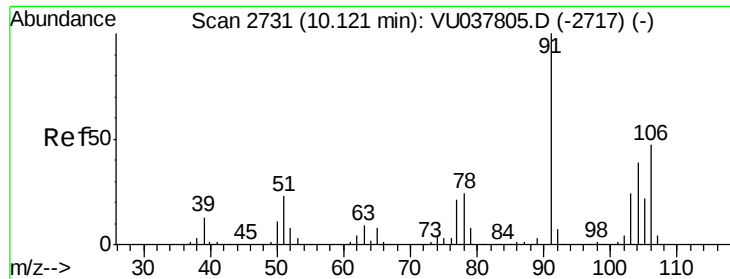
Tot Ion: 91 Resp: 611109
Ion Ratio Lower Upper
91 100
106 30.5 21.7 40.3



#53
m,p-Xylene
Concen: 4.681 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Tgt Ion: 106 Resp: 229324
Ion Ratio Lower Upper
106 100
91 205.6 143.9 267.3

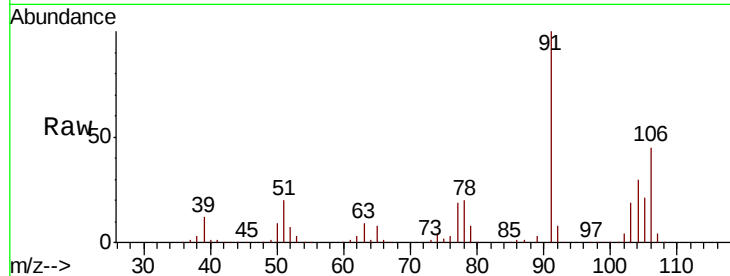




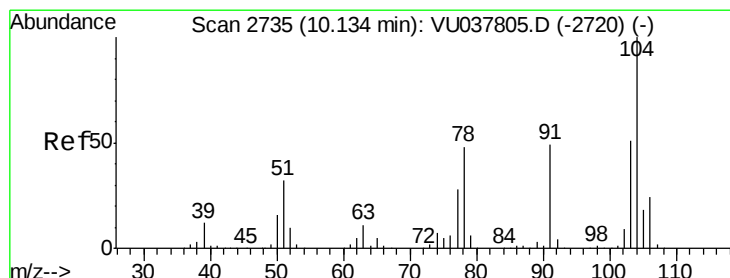
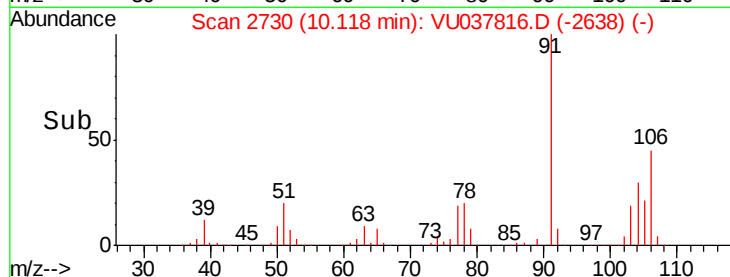
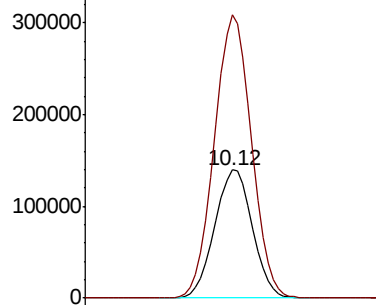
#54
o-Xylene
Concen: 4.651 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 224258
Ion Ratio Lower Upper
106 100
91 221.0 151.1 280.7

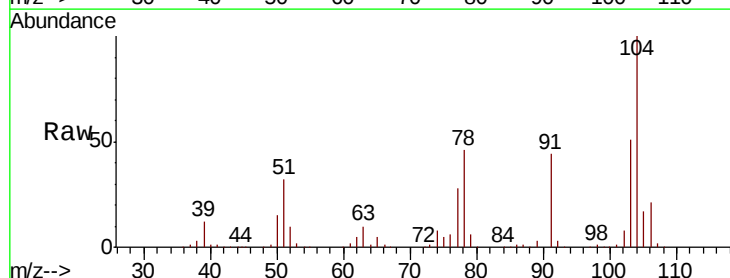


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

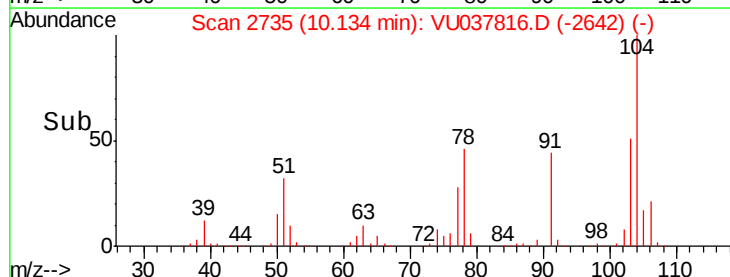
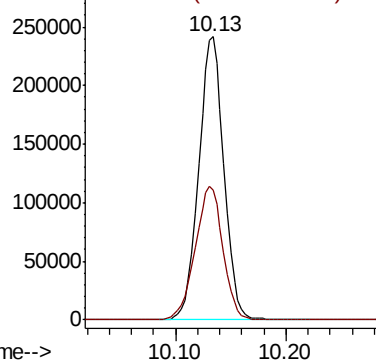


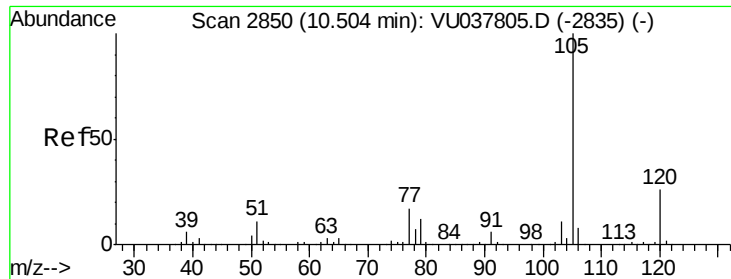
#55
Styrene
Concen: 4.616 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VU037816.D
Acq: 20 Apr 2020 16:17

Tgt Ion:104 Resp: 380461
Ion Ratio Lower Upper
104 100
78 46.0 32.5 60.3



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





#56

Isopropylbenzene

Concen: 4.766 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

ClientSampled :

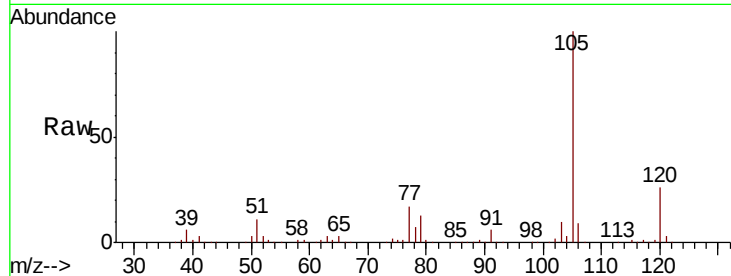
Tot Ion:105 Resp: 602722

Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0

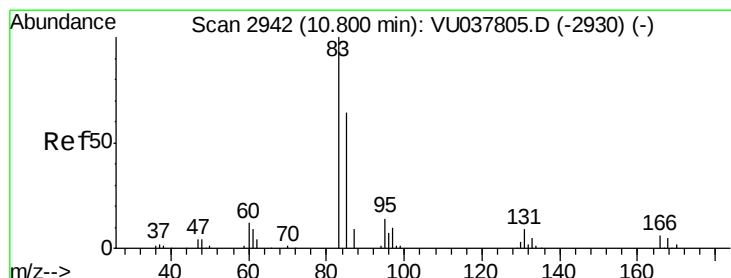
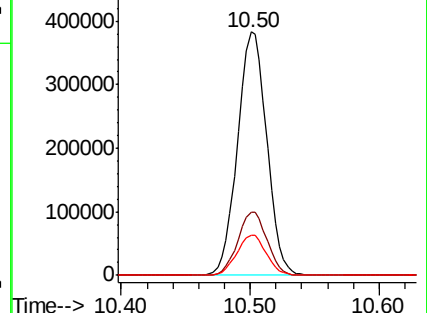
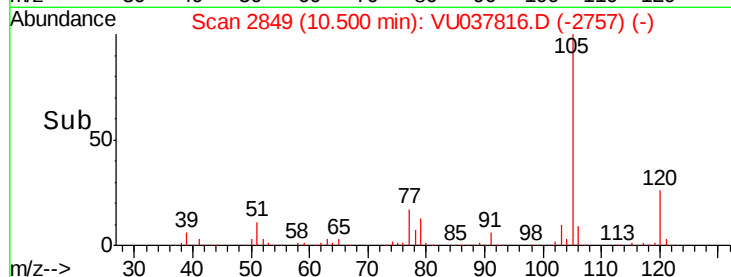
77 16.6 13.2 19.8



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: 4.471 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

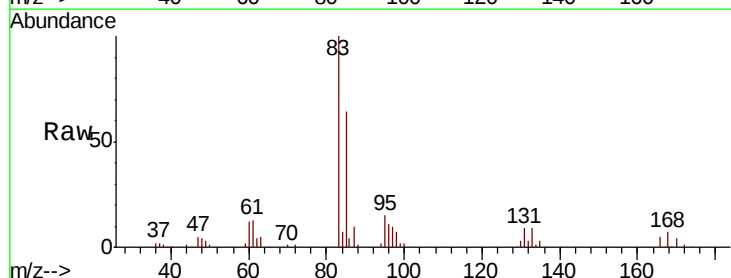
Tgt Ion: 83 Resp: 115539

Ion Ratio Lower Upper

83 100

85 63.6 45.3 84.1

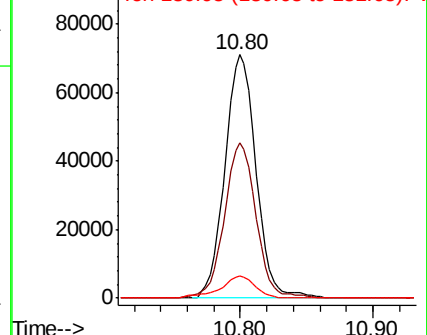
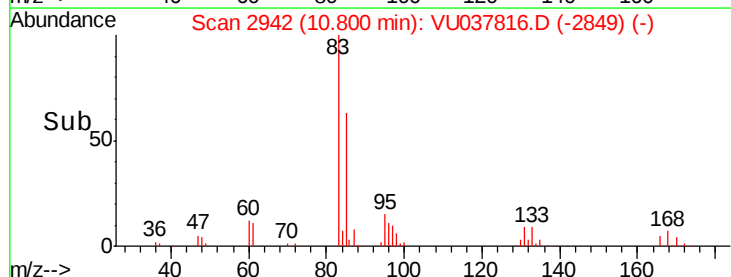
131 8.9 7.4 11.2

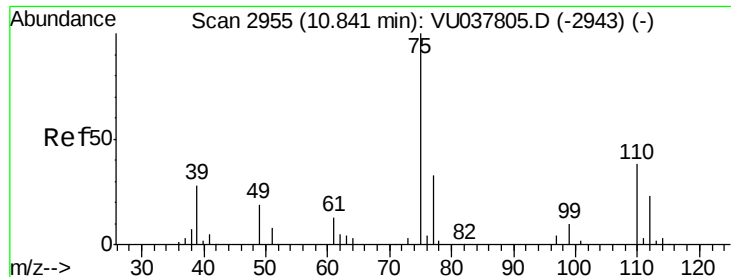


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.526 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

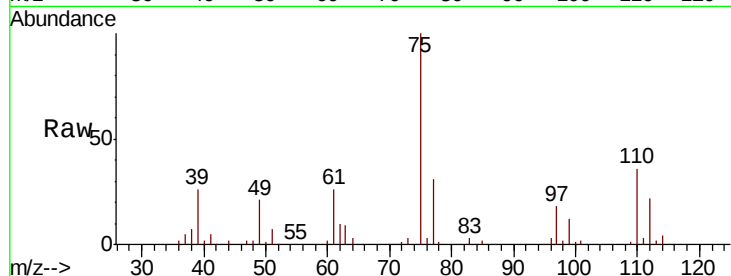
ClientSampleId :

Tot Ion: 75 Resp: 87261

Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU037805.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU037805.D (-2943) (-)

10.84

60000

50000

40000

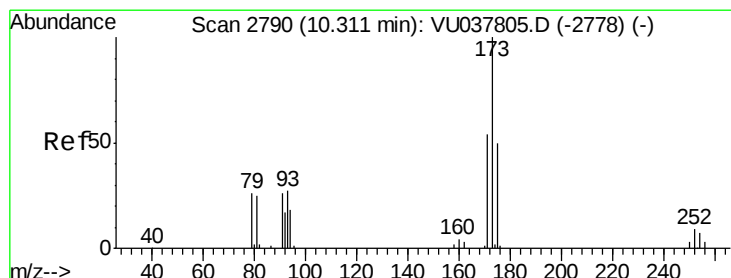
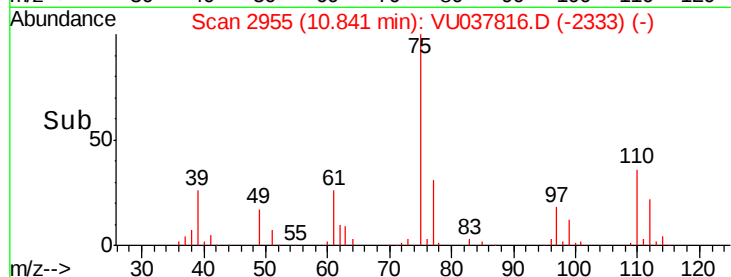
30000

20000

10000

0

Time--> 10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 4.294 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

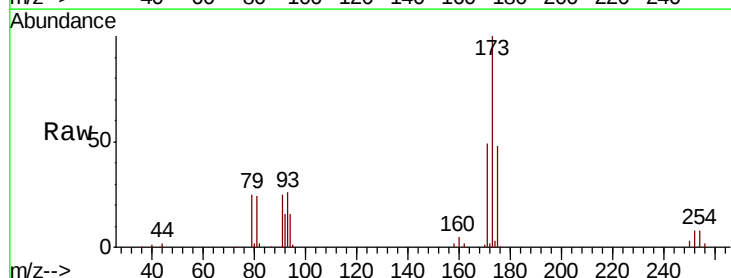
Tgt Ion: 173 Resp: 57934

Ion Ratio Lower Upper

173 100

175 48.9 37.6 56.4

254 8.1 5.8 8.8



Abundance Ion 172.90 (172.60 to 173.60): VU037805.D (-2778) (-)

Ion 174.90 (174.60 to 175.60): VU037805.D (-2778) (-)

Ion 253.75 (253.45 to 254.45): VU037805.D (-2778) (-)

10.31

50000

40000

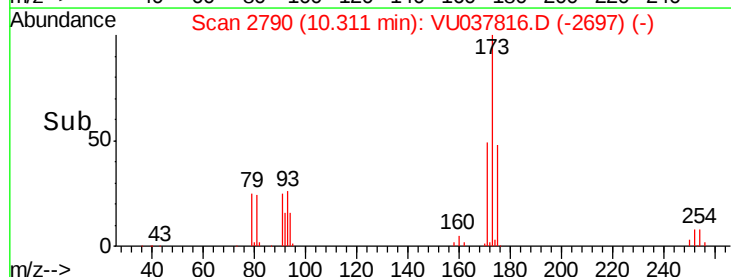
30000

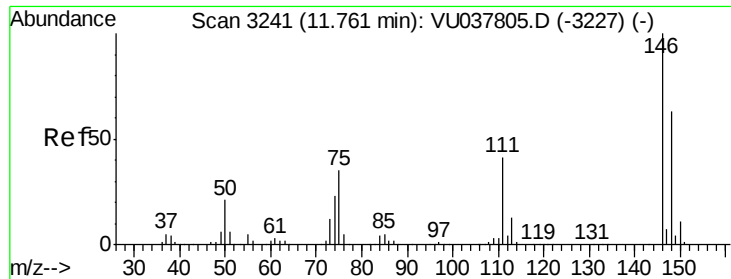
20000

10000

0

Time--> 10.25 10.30 10.35 10.40

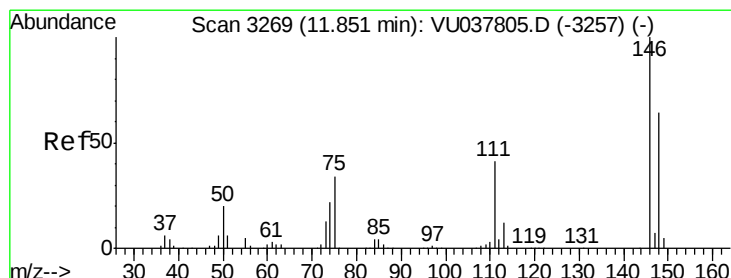
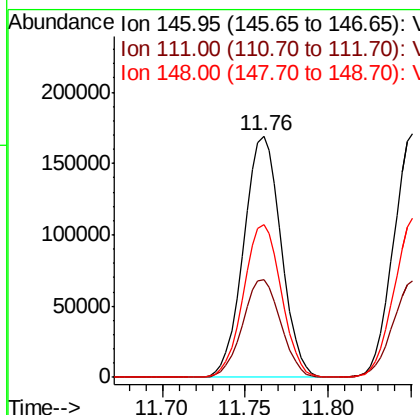
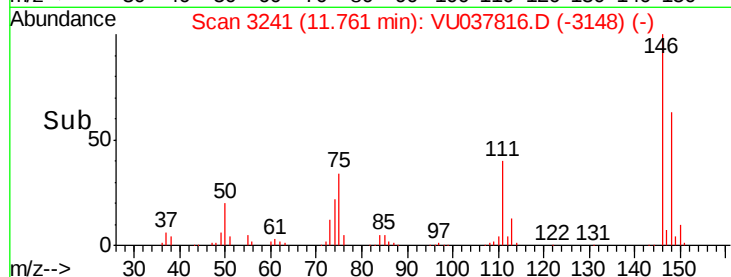
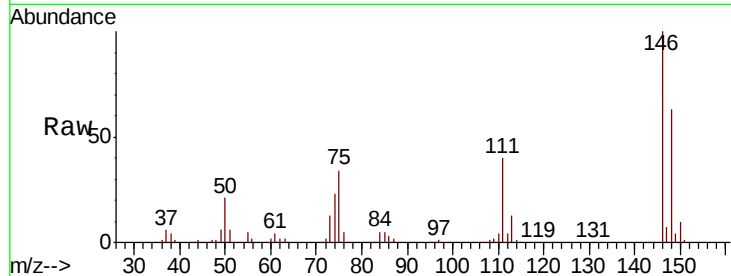




#62
 1,3-Dichlorobenzene
 Concen: 4.665 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

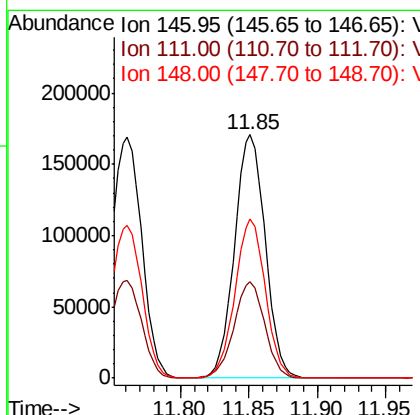
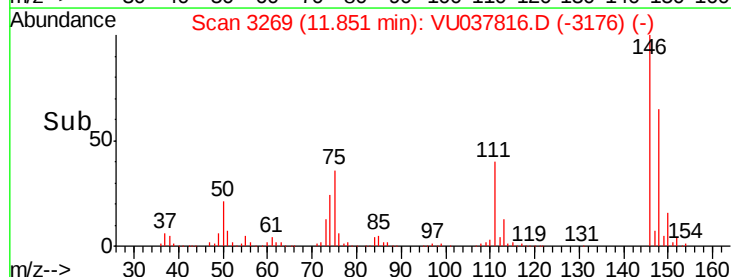
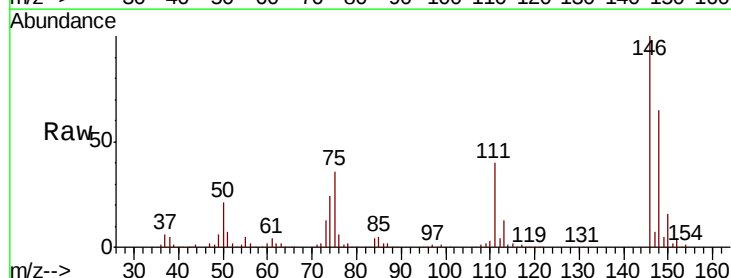
Instrument :
 MSVOA_U
 ClientSampleID :

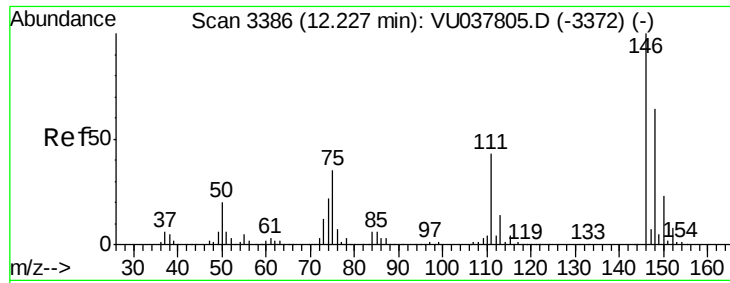
Tot Ion:146 Resp: 265312
 Ion Ratio Lower Upper
 146 100
 111 40.4 29.8 55.3
 148 63.3 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.683 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion:146 Resp: 267064
 Ion Ratio Lower Upper
 146 100
 111 39.7 28.4 52.8
 148 65.3 44.9 83.3





#65

1,2-Dichlorobenzene

Concen: 4.604 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

ClientSampled :

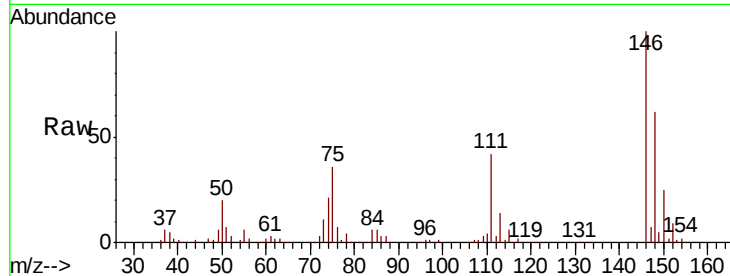
Tot Ion:146 Resp: 246443

Ion Ratio Lower Upper

146 100

111 41.8 35.0 52.6

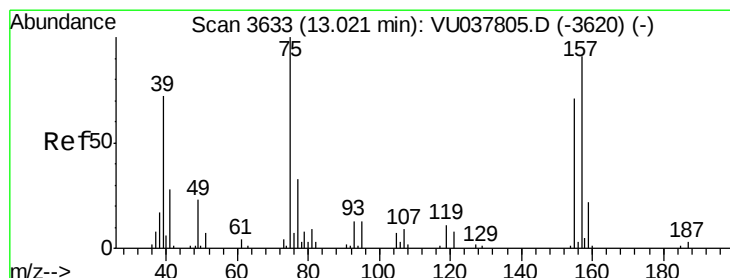
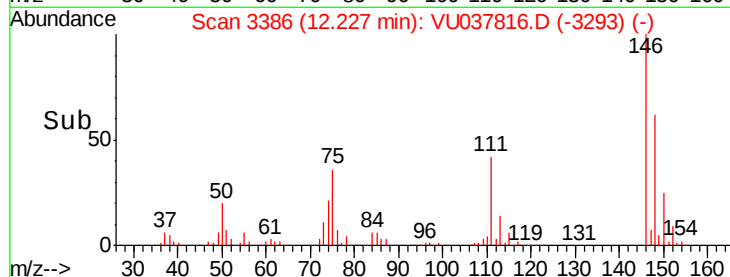
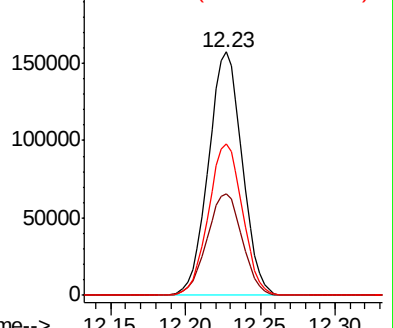
148 62.4 51.5 77.3



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: 4.085 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

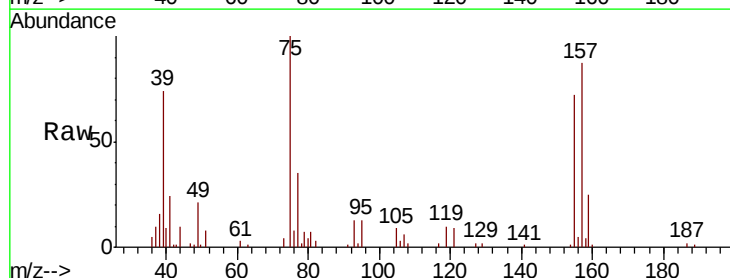
Tgt Ion: 75 Resp: 20273

Ion Ratio Lower Upper

75 100

155 72.5 57.9 86.9

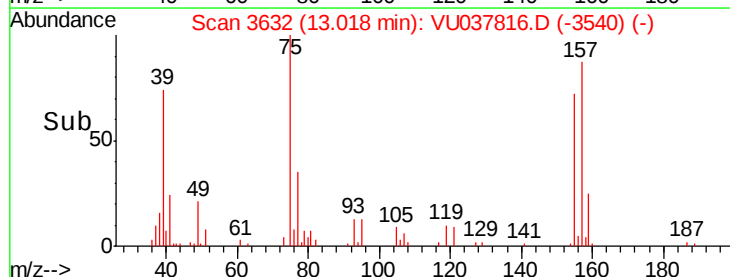
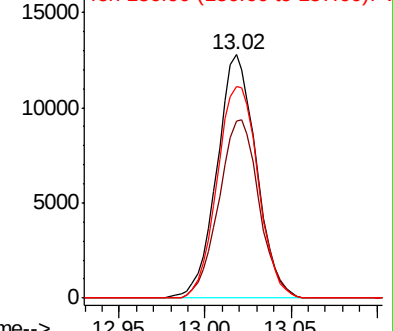
157 86.7 79.8 119.8

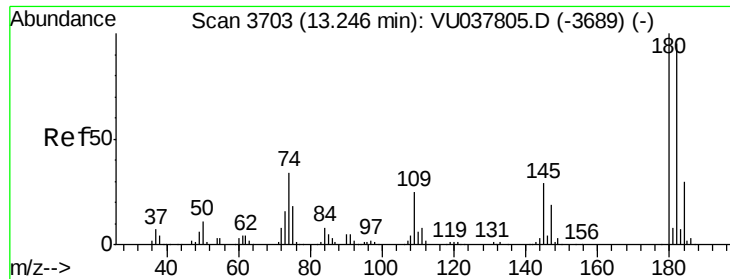


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

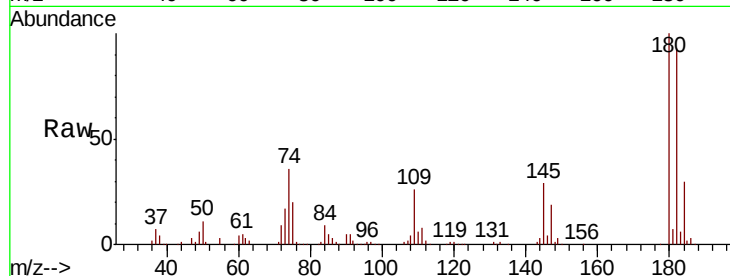




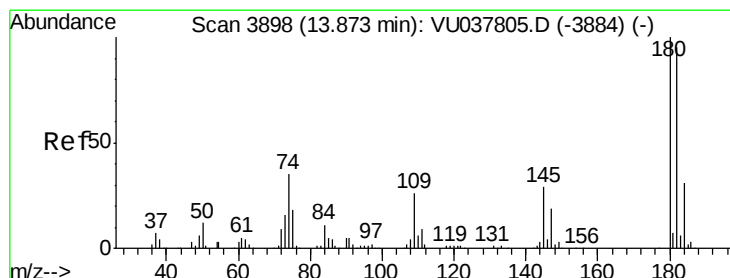
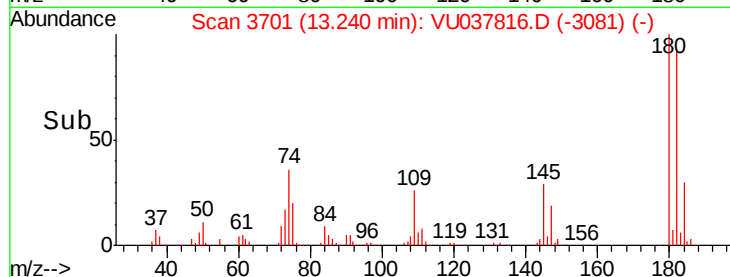
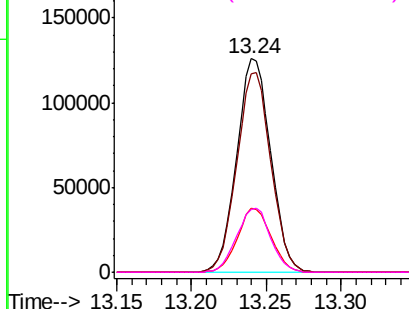
#67
 1,3,5-Trichlorobenzene
 Concen: 4.767 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.01 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	198816
Ion Ratio	Lower	Upper
180	100	
182	93.8	77.1 115.7
184	29.6	24.7 37.1
145	30.0	24.6 37.0

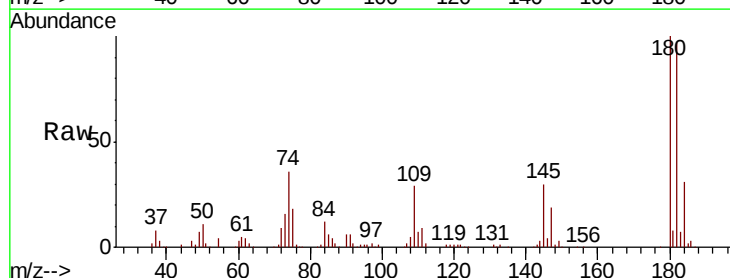


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

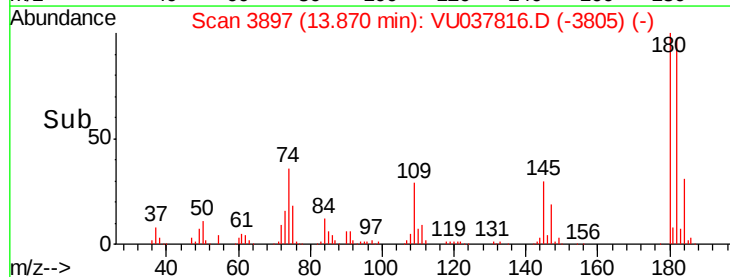
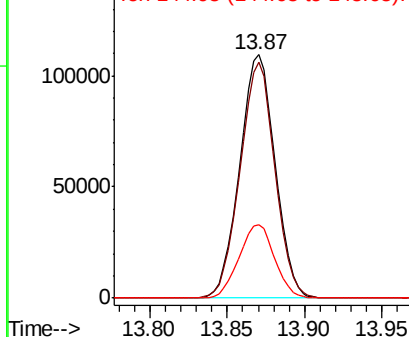


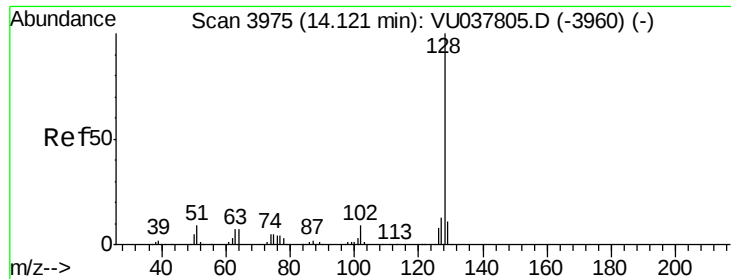
#68
 1,2,4-trichlorobenzene
 Concen: 4.550 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. -0.00 min
 Lab File: VU037816.D
 Acq: 20 Apr 2020 16:17

Tgt Ion:180	Resp:	174177
Ion Ratio	Lower	Upper
180	100	
182	95.5	76.4 114.6
145	30.4	25.1 37.7



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





#69

Naphthalene

Concen: 4.189 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. -0.00 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

Instrument :

MSVOA_U

ClientSampled :

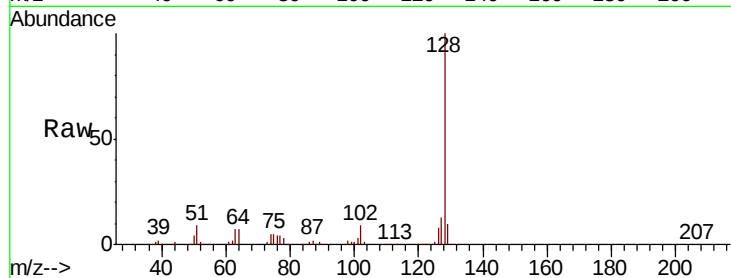
Tot Ion:128 Resp: 324746

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

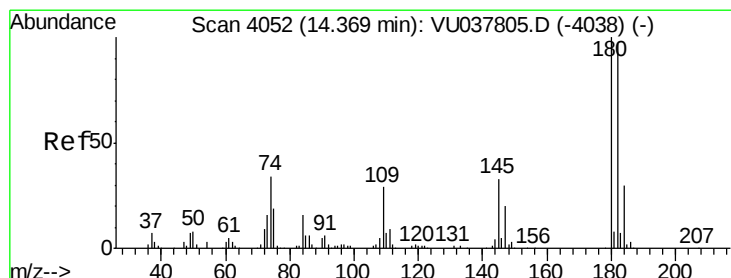
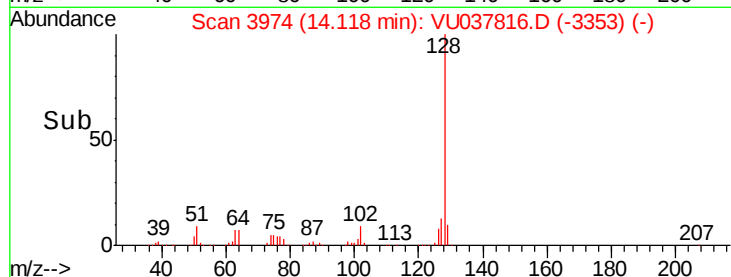
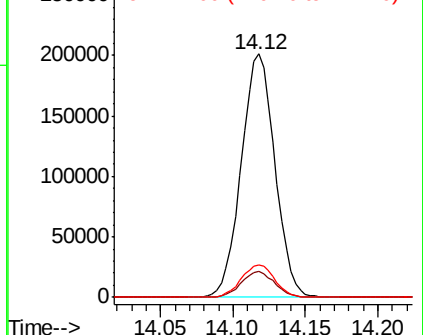
127 13.4 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.560 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VU037816.D

Acq: 20 Apr 2020 16:17

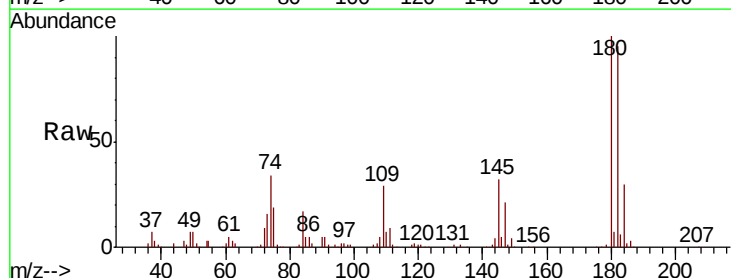
Tgt Ion:180 Resp: 155532

Ion Ratio Lower Upper

180 100

182 94.0 76.6 115.0

145 32.7 26.7 40.1



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

