

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037765.D
 Acq On : 17 Apr 2020 10:13
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 18 01:08:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 14:32:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	317664	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	306223	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	154860	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	86884	3.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.20%
7) Chloroethane-d5	1.93	69	79785	3.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.60%
11) 1,1-Dichloroethene-d2	2.59	63	169359	3.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.20%
20) 2-Butanone-d5	4.66	46	318811	48.29	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.58%
24) Chloroform-d	5.10	84	170271	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.74	65	98767	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
32) Benzene-d6	5.76	84	339553	4.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.80%
36) 1,2-Dichloropropane-d6	6.72	67	117524	4.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.20%
41) Toluene-d8	7.92	98	306000	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.40%
43) trans-1,3-Dichloropropene-	8.20	79	51737	4.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.60%
46) 2-Hexanone-d5	8.66	63	285232	46.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.14%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	96963	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	118090	4.27	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	138597	5.029	ug/L 98
3) Chloromethane	1.54	50	152702	4.482	ug/L 100
5) Vinyl chloride	1.62	62	158608	4.738	ug/L 98
6) Bromomethane	1.87	94	69263	3.604	ug/L 100
8) Chloroethane	1.95	64	89808	4.569	ug/L 99
9) Trichlorofluoromethane	2.16	101	172700	4.808	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	100997	4.830	ug/L 99
12) 1,1-Dichloroethene	2.60	96	97385	4.442	ug/L 94
13) Acetone	2.65	43	207749	47.729	ug/L 95
14) Carbon disulfide	2.82	76	347601	4.343	ug/L 99
15) Methyl Acetate	2.98	43	56696	4.685	ug/L 97
16) Methylene chloride	3.08	84	114657	4.639	ug/L 97
17) Methyl tert-butyl Ether	3.40	73	292442	4.607	ug/L 99
18) trans-1,2-Dichloroethene	3.38	96	108655	4.572	ug/L 95
19) 1,1-Dichloroethane	3.91	63	220725	4.802	ug/L 97
21) 2-Butanone	4.74	43	374763	47.389	ug/L 97
22) cis-1,2-Dichloroethene	4.71	96	118625	4.620	ug/L 96

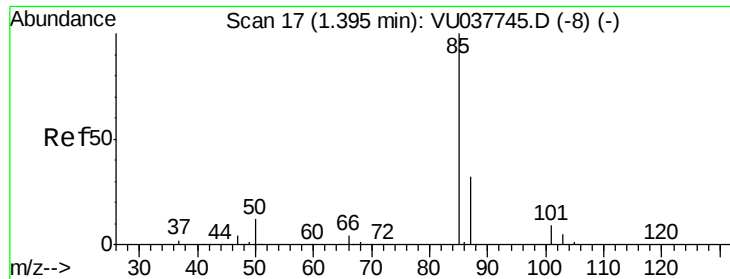
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037765.D
 Acq On : 17 Apr 2020 10:13
 Operator : JC/MD
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Instrument :
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 ClientSampleId :

Quant Time: Apr 18 01:08:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 14:32:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	50508	4.641	ug/L	98
25) Chloroform	5.13	83	208808	4.782	ug/L	96
27) 1,2-Dichloroethane	5.83	62	145028	4.913	ug/L	100
29) 1,1,1-Trichloroethane	5.35	97	177804	4.785	ug/L	98
30) Cyclohexane	5.42	56	222803	4.845	ug/L	98
31) Carbon tetrachloride	5.56	117	143005	4.830	ug/L	99
33) Benzene	5.81	78	475018	4.695	ug/L	100
34) Trichloroethene	6.57	95	118096	4.750	ug/L	98
35) Methylcyclohexane	6.79	83	213634	4.902	ug/L	98
37) 1,2-Dichloropropane	6.82	63	127962	4.769	ug/L	100
38) Bromodichloromethane	7.13	83	152735	4.787	ug/L	99
39) cis-1,3-Dichloropropene	7.63	75	198225	4.719	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	927167	46.999	ug/L	99
42) Toluene	8.00	91	504213	4.758	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	171156	4.694	ug/L	96
45) 1,1,2-Trichloroethane	8.43	97	84016	4.646	ug/L	98
47) Tetrachloroethene	8.58	164	86625	4.848	ug/L	99
48) 2-Hexanone	8.71	43	667915	47.288	ug/L	99
49) Dibromochloromethane	8.83	129	98655	4.774	ug/L	100
50) 1,2-Dibromoethane	8.95	107	79686	4.583	ug/L #	99
51) Chlorobenzene	9.47	112	306757	4.744	ug/L	99
52) Ethylbenzene	9.59	91	569359	4.829	ug/L	98
53) m,p-Xylene	9.71	106	217235	4.868	ug/L	97
54) o-Xylene	10.12	106	208399	4.745	ug/L	98
55) Styrene	10.13	104	358089	4.769	ug/L	98
56) Isopropylbenzene	10.50	105	566471	4.917	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	109228	4.640	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	80401	4.578	ug/L	99
61) Bromoform	10.31	173	56652	4.604	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	246104	4.745	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	245393	4.718	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	232209	4.756	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	20544	4.539	ug/L	98
67) 1,3,5-Trichlorobenzene	13.25	180	191080	5.024	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	170743	4.891	ug/L	99
69) Naphthalene	14.12	128	323935	4.582	ug/L	100
70) 1,2,3-Trichlorobenzene	14.37	180	150556	4.840	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.029 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

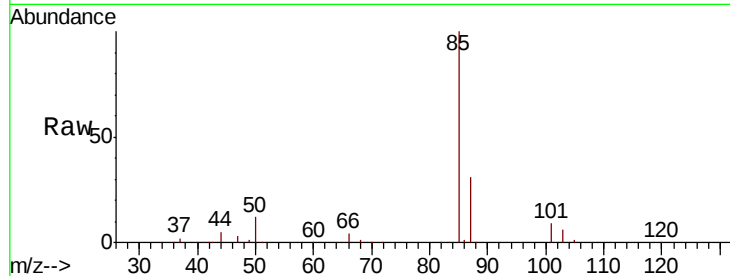
ClientSampleId :

Tot Ion: 85 Resp: 138597

Ion Ratio Lower Upper

85 100

87 31.5 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037745.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU037745.D (-8) (-)

1.39

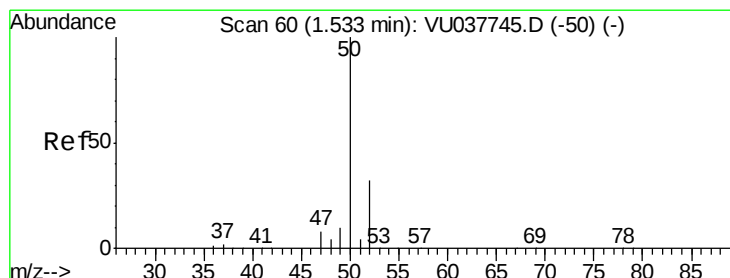
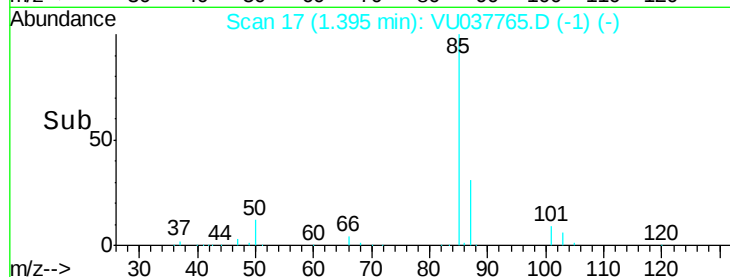
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 4.482 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037765.D

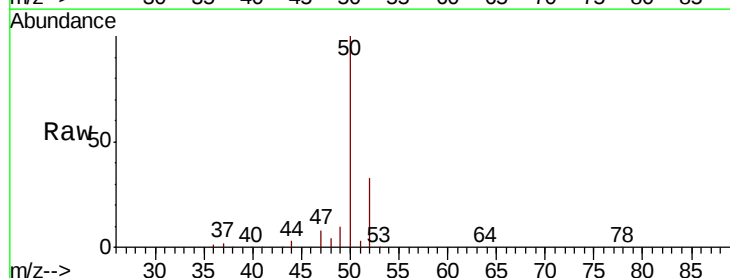
Acq: 17 Apr 2020 10:13

Tgt Ion: 50 Resp: 152702

Ion Ratio Lower Upper

50 100

52 32.8 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU037745.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU037745.D (-50) (-)

1.54

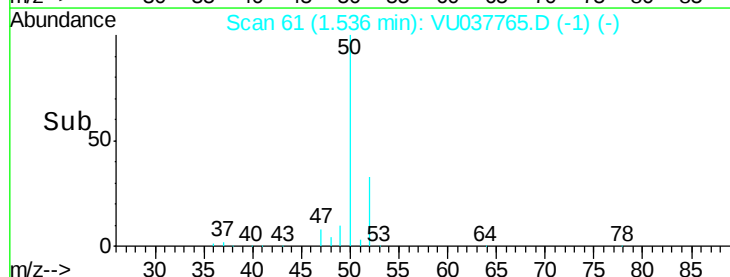
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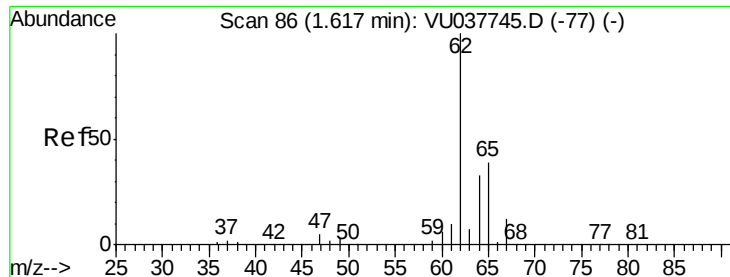
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.738 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

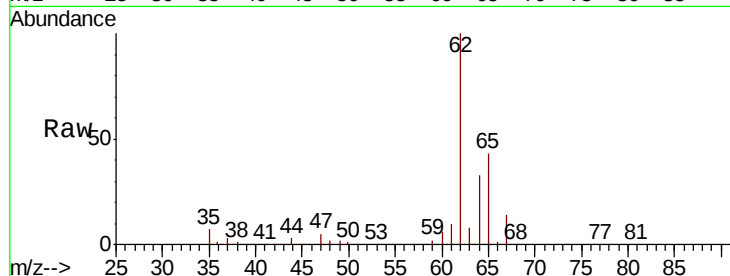
ClientSampleId :

Tot Ion: 62 Resp: 158608

Ion Ratio Lower Upper

62 100

64 32.7 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VU037745.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037745.D (-77) (-)

1.62

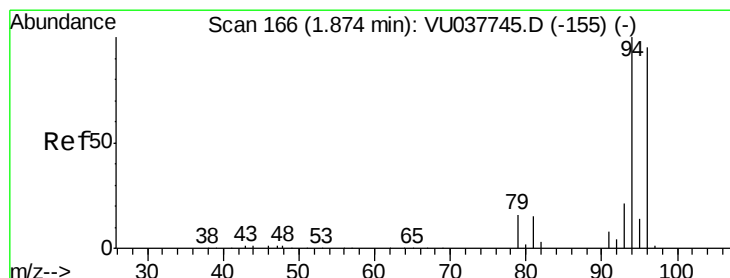
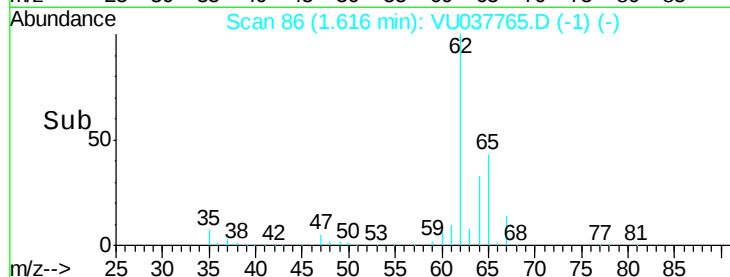
150000

100000

50000

0

Time--> 1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 3.604 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU037765.D

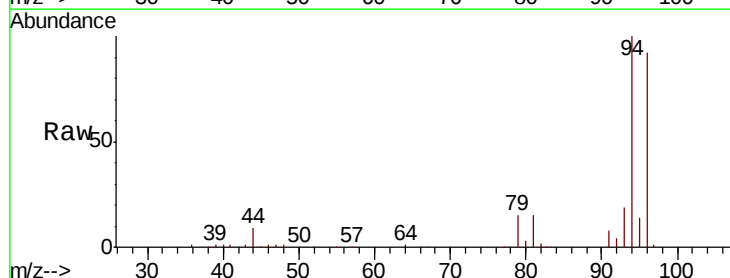
Acq: 17 Apr 2020 10:13

Tgt Ion: 94 Resp: 69263

Ion Ratio Lower Upper

94 100

96 92.4 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU037745.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU037745.D (-155) (-)

1.87

60000

50000

40000

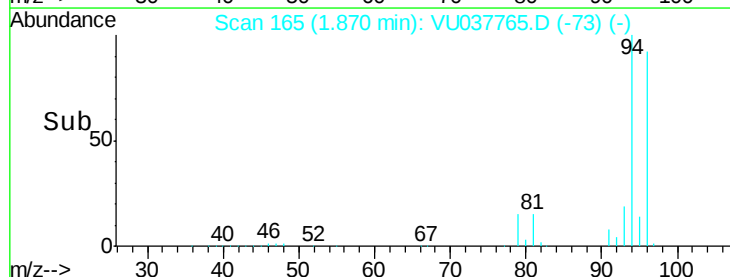
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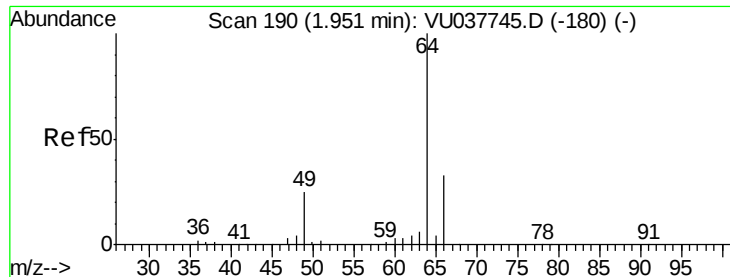
20000

10000

0

Time--> 1.80 1.85 1.90 1.95





#8

Chloroethane

Concen: 4.569 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

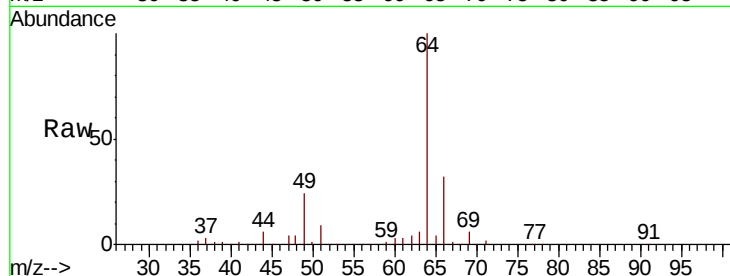
ClientSampleId :

Tot Ion: 64 Resp: 89808

Ion Ratio Lower Upper

64 100

66 32.3 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VU037745.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU037745.D (-180) (-)

1.95

60000

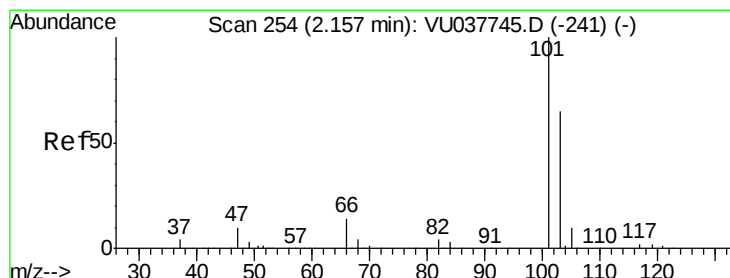
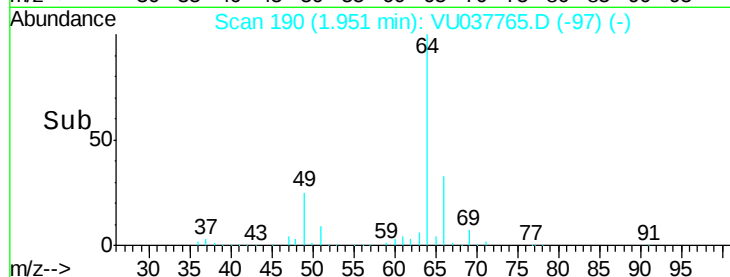
40000

20000

0

Time-->

1.85 1.90 1.95 2.00



#9

Trichlorofluoromethane

Concen: 4.808 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU037765.D

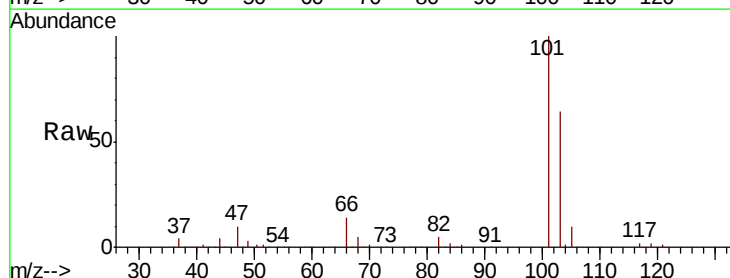
Acq: 17 Apr 2020 10:13

Tgt Ion:101 Resp: 172700

Ion Ratio Lower Upper

101 100

103 64.0 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU037745.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU037745.D (-241) (-)

2.16

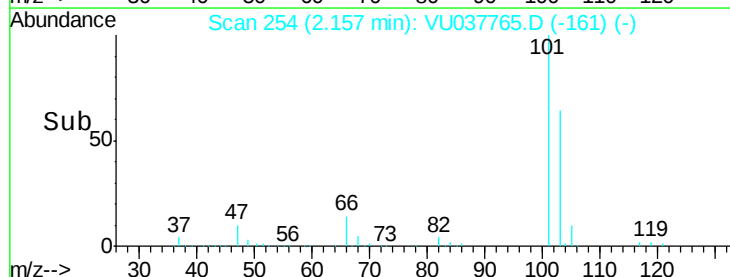
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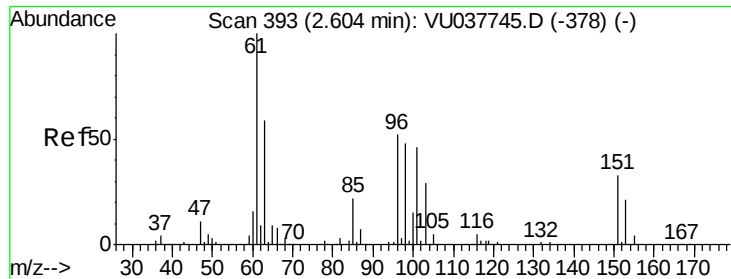
50000

0

Time-->

2.10 2.15 2.20 2.25





#10

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

Concen: 4.830 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

ClientSampleId :

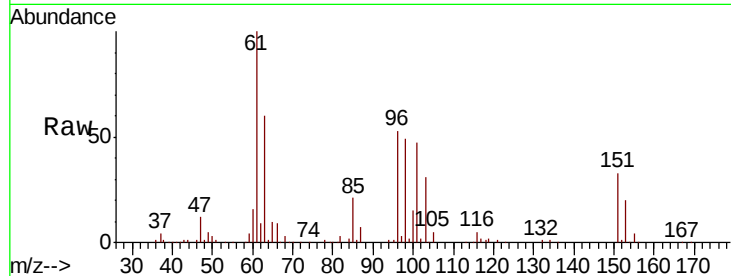
Tot Ion:101 Resp: 100997

Ion Ratio Lower Upper

101 100

85 44.2 34.5 51.7

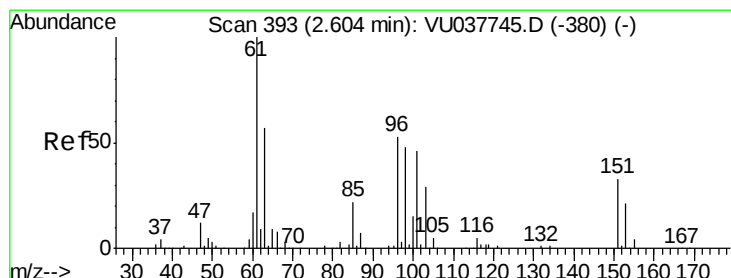
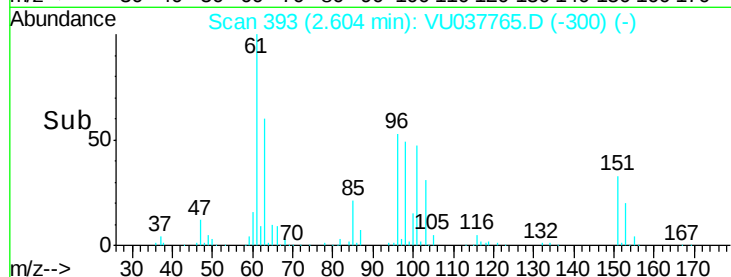
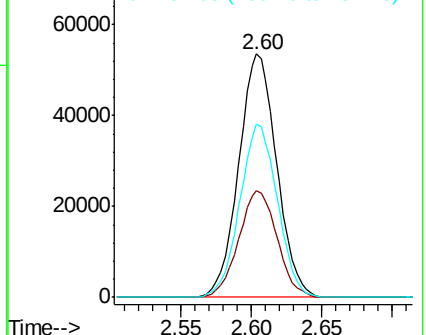
151 70.5 56.9 85.3



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: 4.442 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

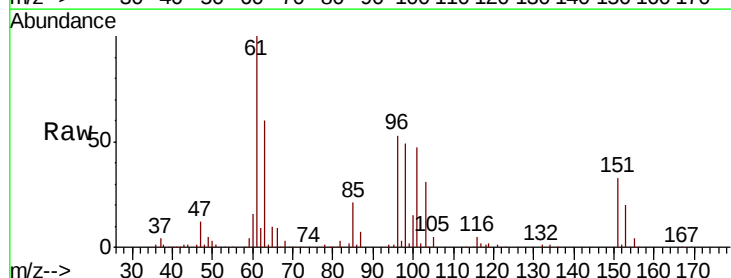
Tgt Ion: 96 Resp: 97385

Ion Ratio Lower Upper

96 100

61 188.8 127.7 237.3

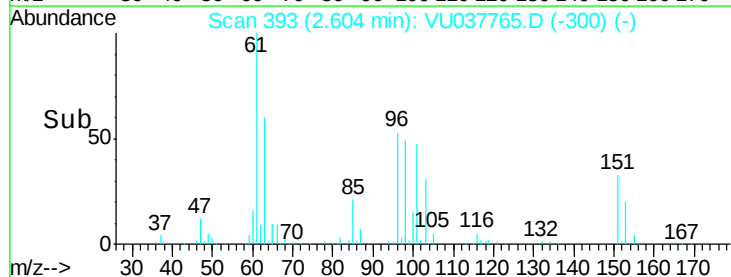
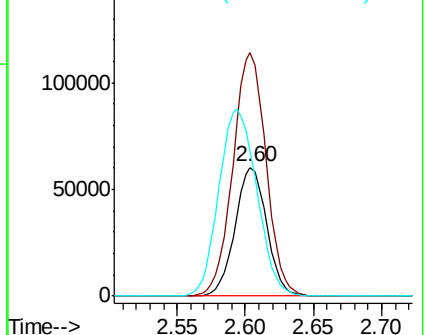
63 112.7 85.0 157.8

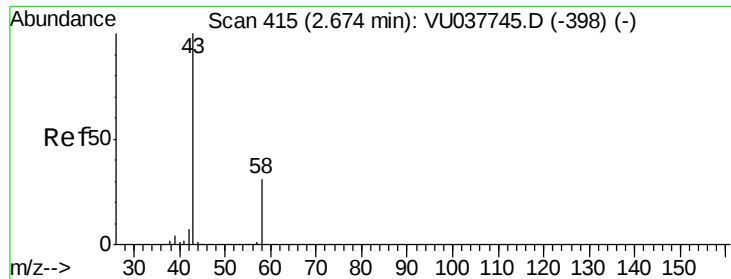


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.729 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.02 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

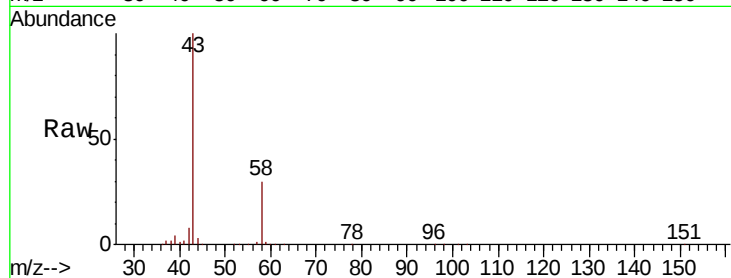
ClientSampled :

Tot Ion: 43 Resp: 207749

Ion Ratio Lower Upper

43 100

58 29.9 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU037765.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU037765.D (-322) (-)

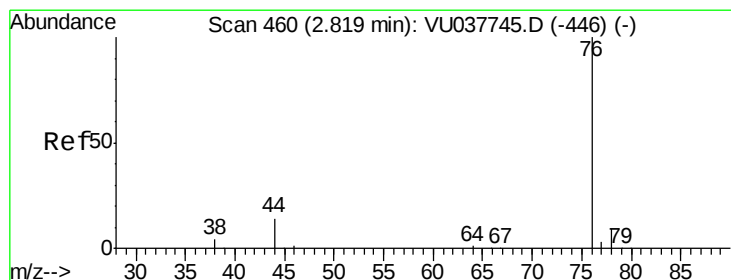
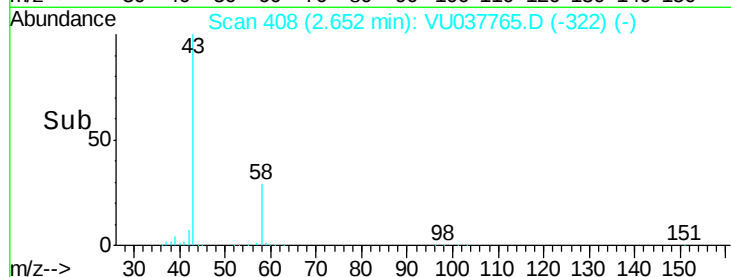
2.65

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 4.343 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037765.D

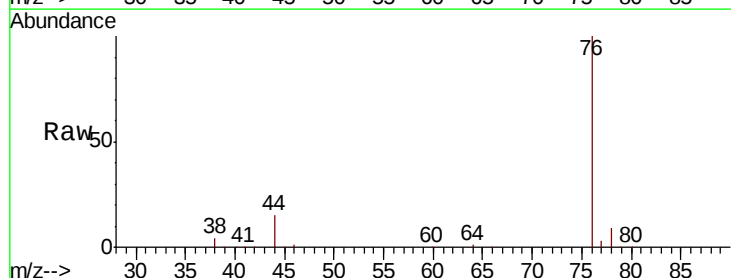
Acq: 17 Apr 2020 10:13

Tgt Ion: 76 Resp: 347601

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU037765.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037765.D (-367) (-)

2.82

200000

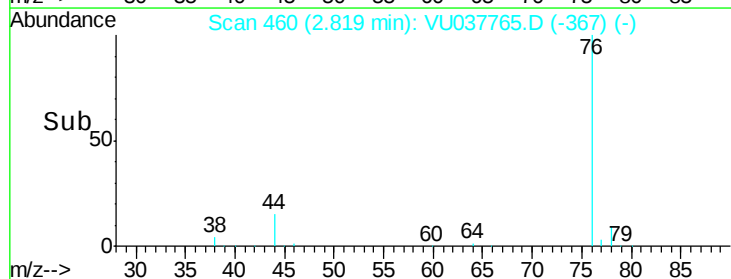
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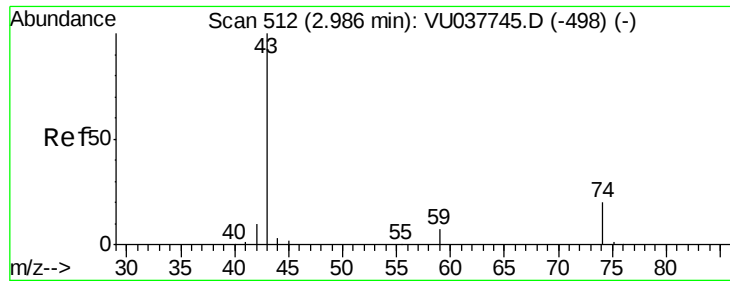
100000

50000

0

Time-->

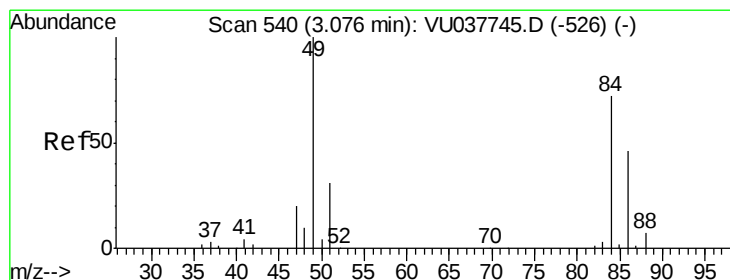
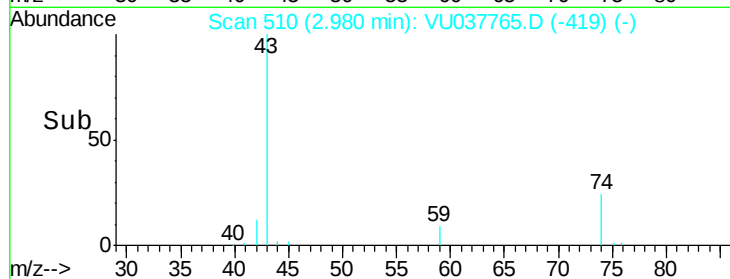
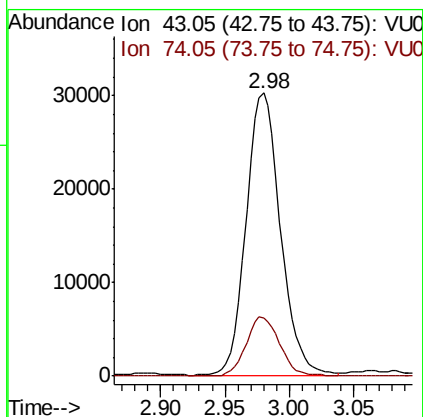
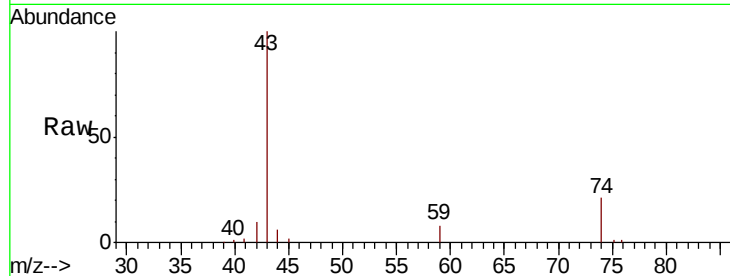




#15
Methvl Acetate
Concen: 4.685 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.01 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

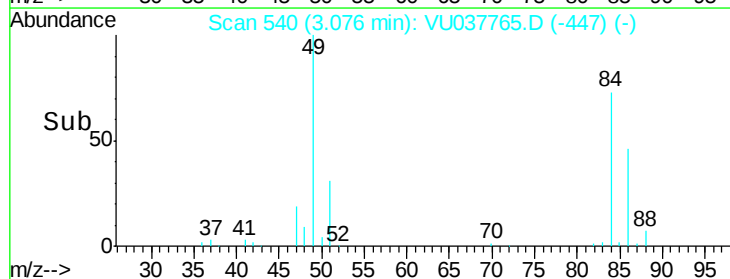
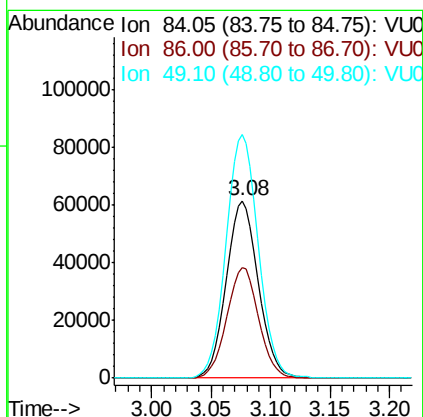
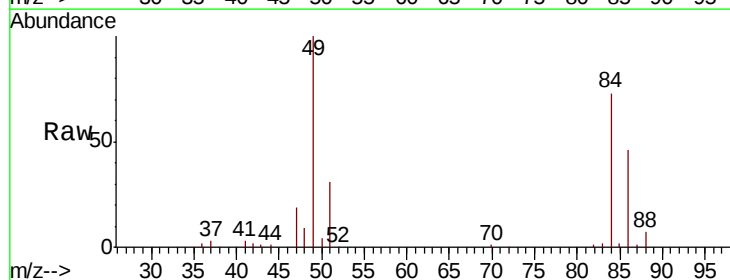
Instrument :
MSVOA_U
ClientSampleId :

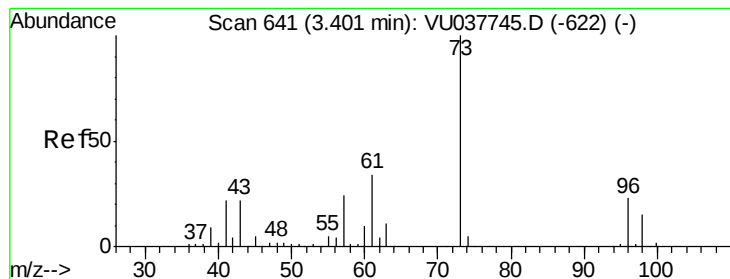
Tot Ion: 43 Resp: 56696
Ion Ratio Lower Upper
43 100
74 20.3 17.2 25.8



#16
Methylene chloride
Concen: 4.639 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

Tgt Ion: 84 Resp: 114657
Ion Ratio Lower Upper
84 100
86 62.6 44.2 82.0
49 137.3 92.4 171.6



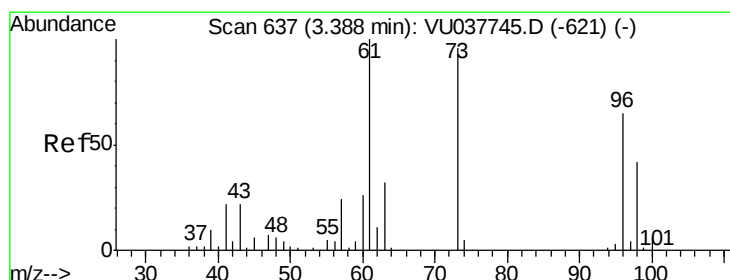
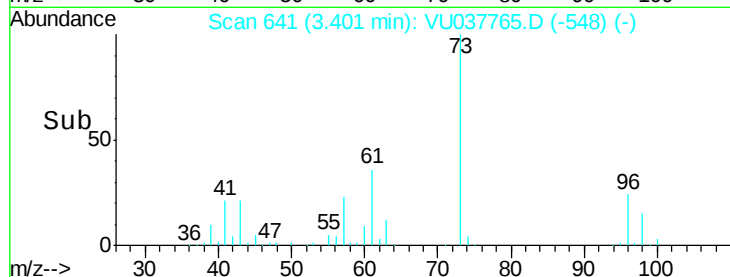
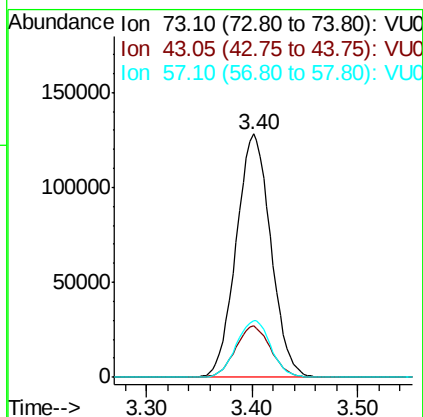
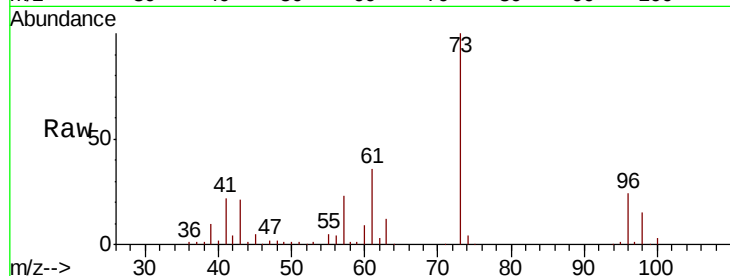


#17

Methvl tert-butvl Ether
 Concen: 4.607 ug/L
 RT: 3.40 min Scan# 641
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Instrument :
 MSVOA_U
 ClientSampleId :

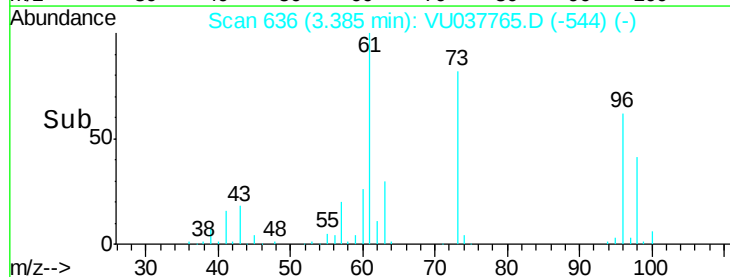
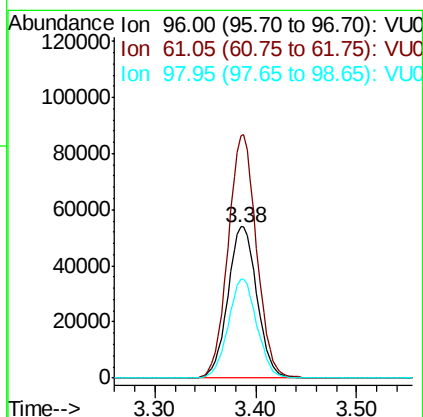
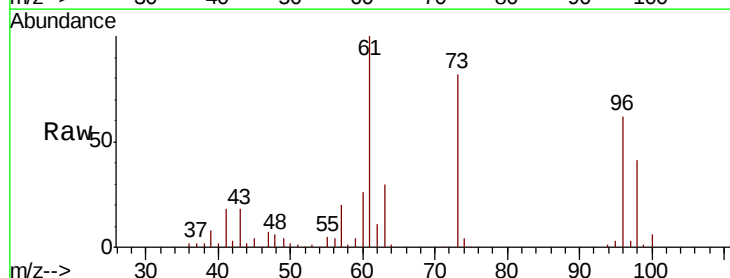
Tot Ion: 73 Resp: 292442
 Ion Ratio Lower Upper
 73 100
 43 21.6 16.4 24.6
 57 23.2 18.4 27.6

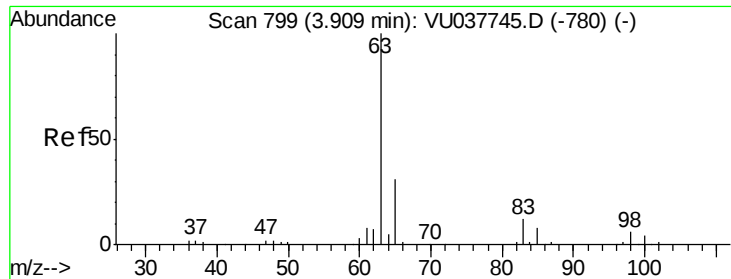


#18

trans-1,2-Dichloroethene
 Concen: 4.572 ug/L
 RT: 3.38 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion: 96 Resp: 108655
 Ion Ratio Lower Upper
 96 100
 61 160.1 106.7 198.3
 98 65.5 44.3 82.3

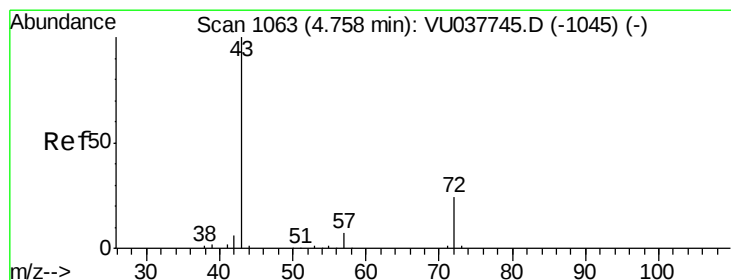
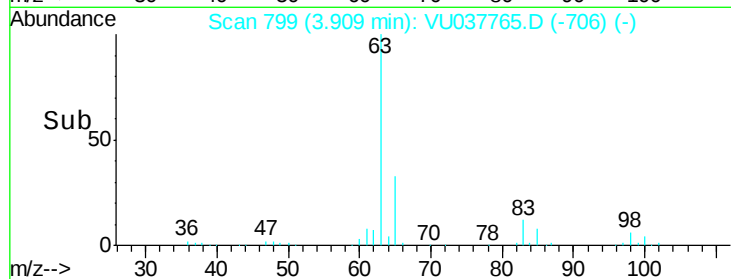
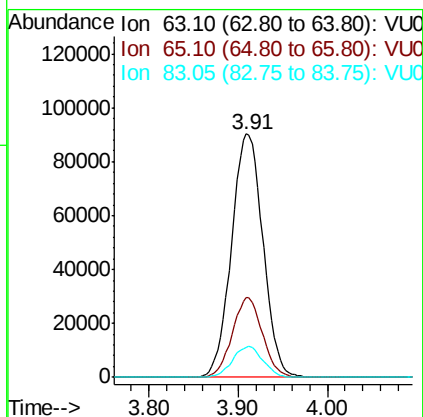
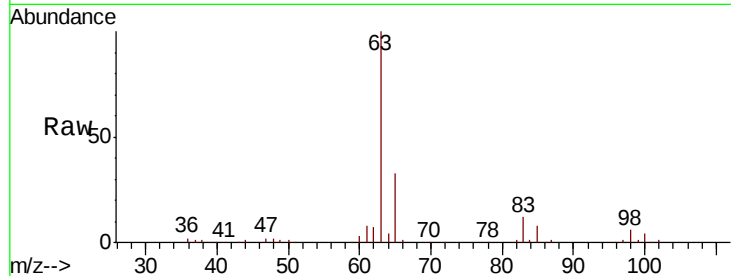




#19
 1,1-Dichloroethane
 Concen: 4.802 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

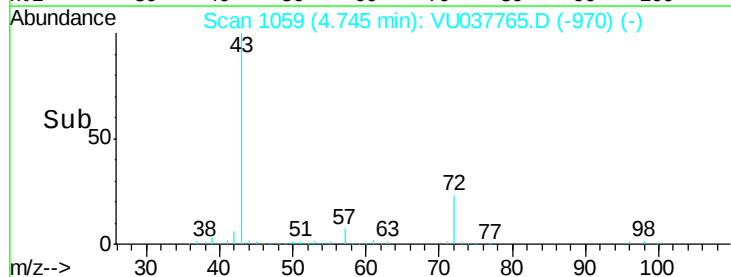
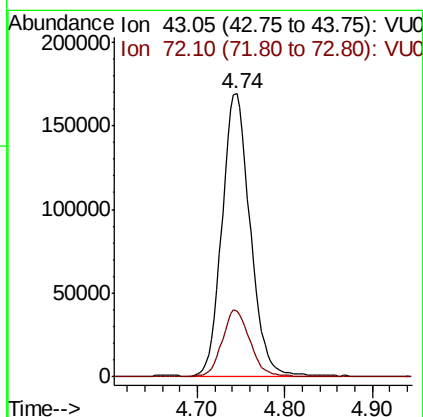
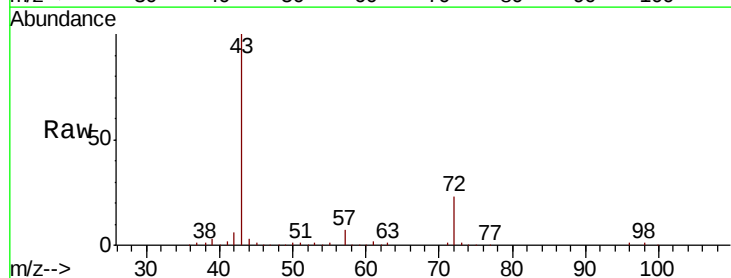
Instrument :
 MSVOA_U
 ClientSampleId :

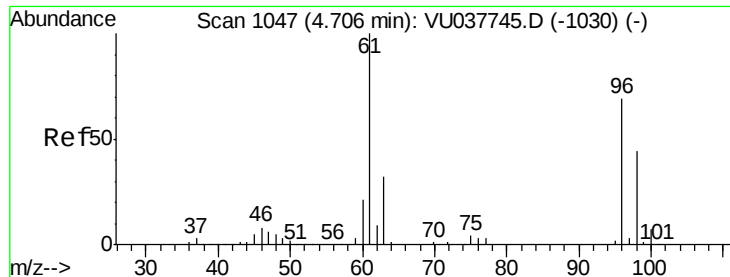
Tot Ion: 63 Resp: 220725
 Ion Ratio Lower Upper
 63 100
 65 32.8 21.6 40.2
 83 12.5 8.6 16.0



#21
 2-Butanone
 Concen: 47.389 ug/L
 RT: 4.74 min Scan# 1059
 Delta R.T. -0.01 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion: 43 Resp: 374763
 Ion Ratio Lower Upper
 43 100
 72 23.7 12.6 37.6





#22

cis-1,2-Dichloroethene

Concen: 4.620 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :
MSVOA_U
ClientSampled :

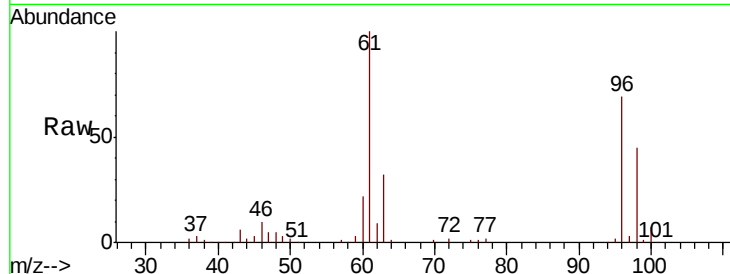
Tot Ion: 96 Resp: 118625

Ion Ratio Lower Upper

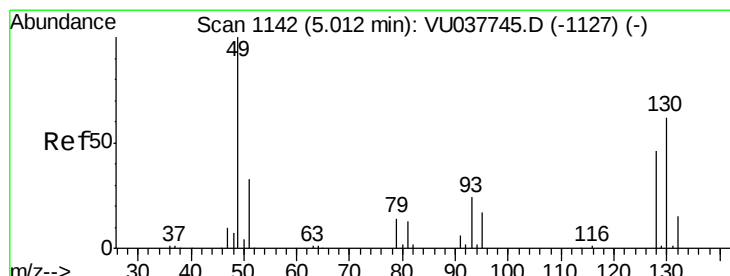
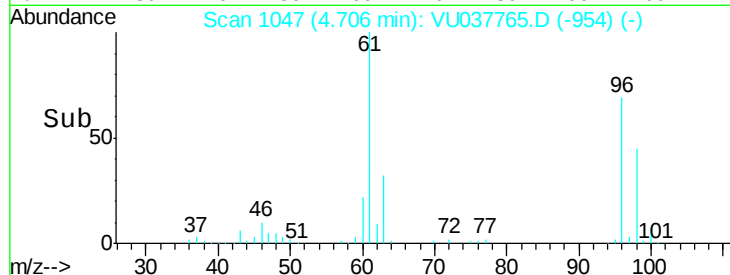
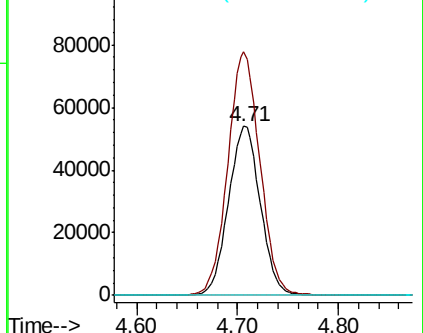
96 100

61 143.9 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: 4.641 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Tgt Ion: 128 Resp: 50508

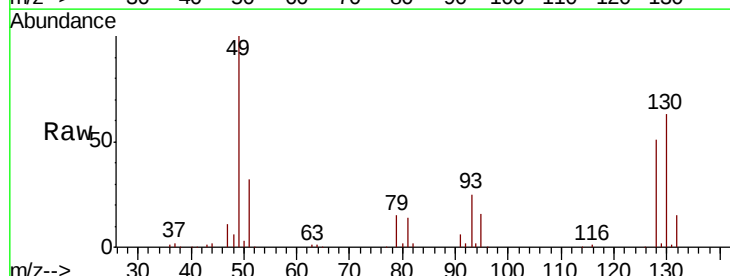
Ion Ratio Lower Upper

128 100

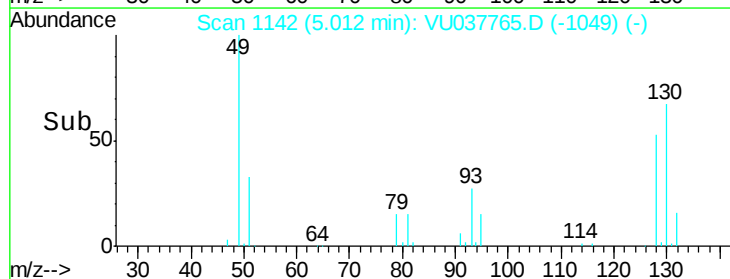
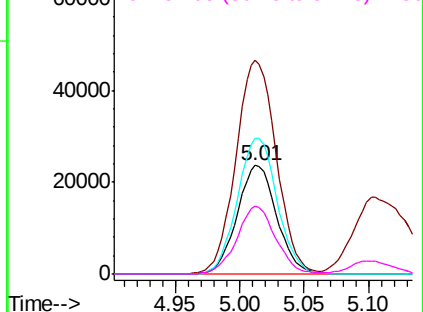
49 197.3 138.6 257.4

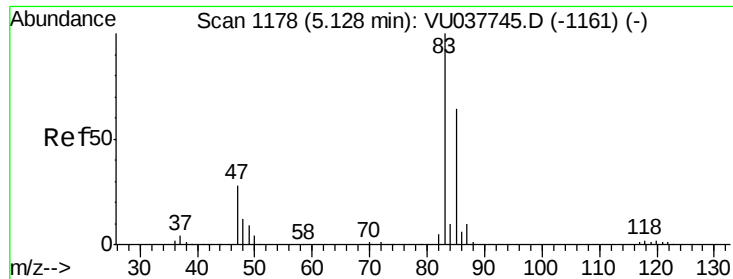
130 125.0 91.3 169.5

51 63.0 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

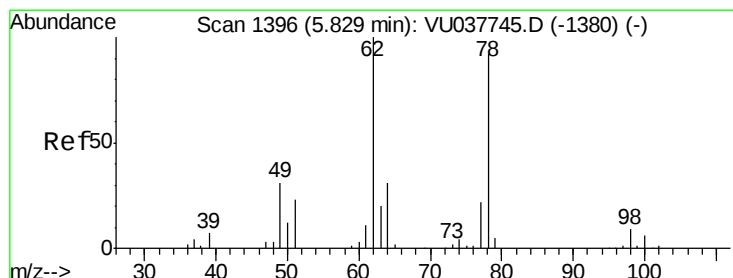
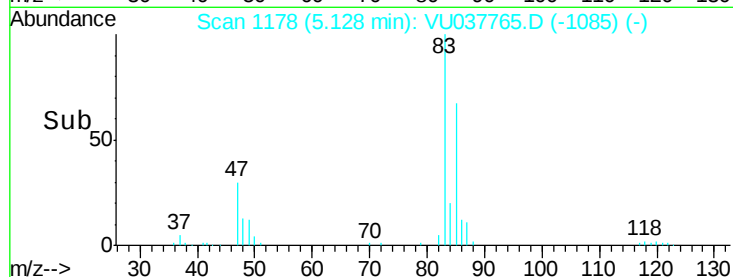
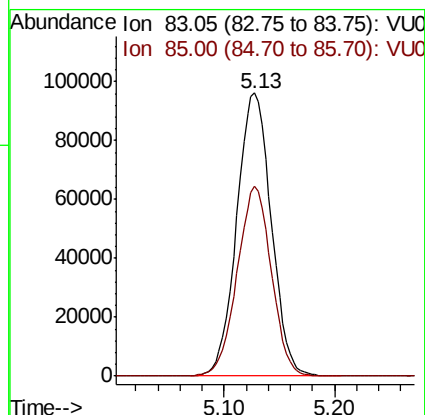
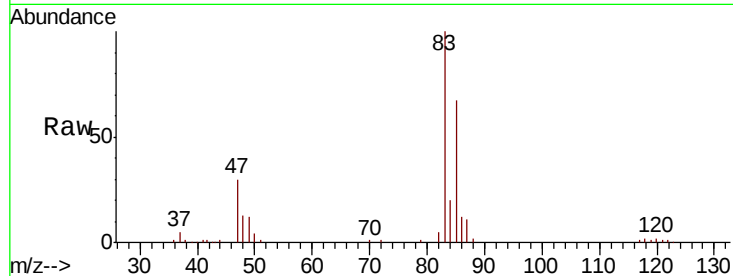




#25
Chloroform
Concen: 4.782 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

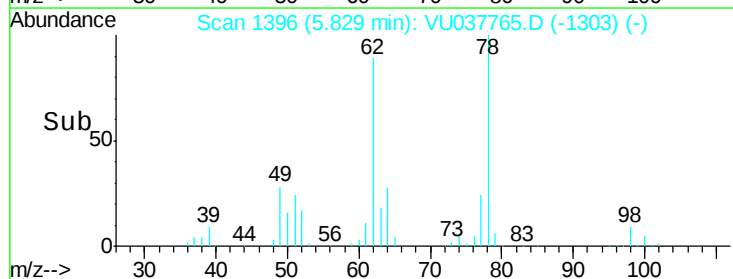
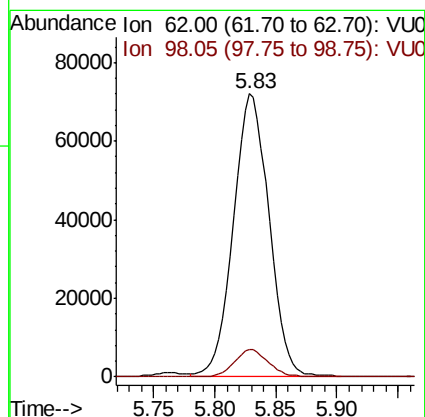
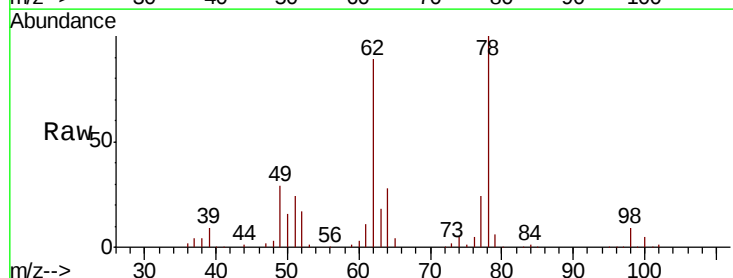
Instrument :
MSVOA_U
ClientSampled :

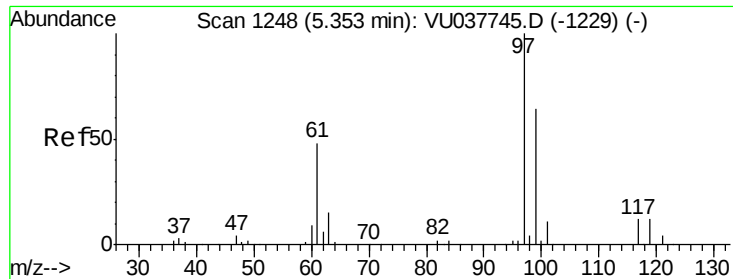
Tot Ion: 83 Resp: 208808
Ion Ratio Lower Upper
83 100
85 67.0 44.9 83.3



#27
1,2-Dichloroethane
Concen: 4.913 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

Tgt Ion: 62 Resp: 145028
Ion Ratio Lower Upper
62 100
98 9.6 7.6 11.4

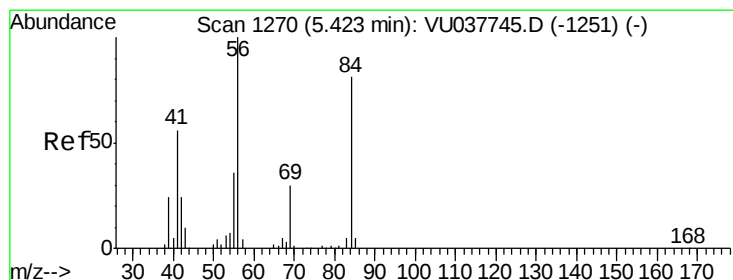
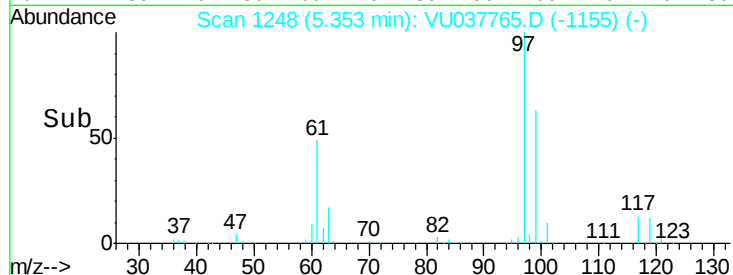
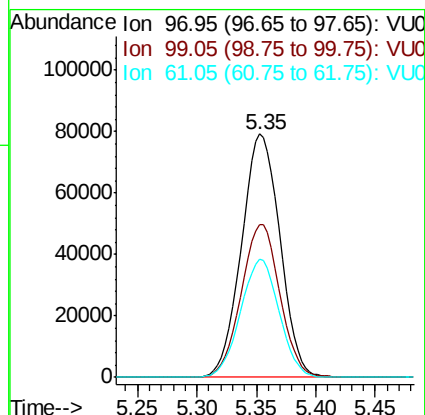
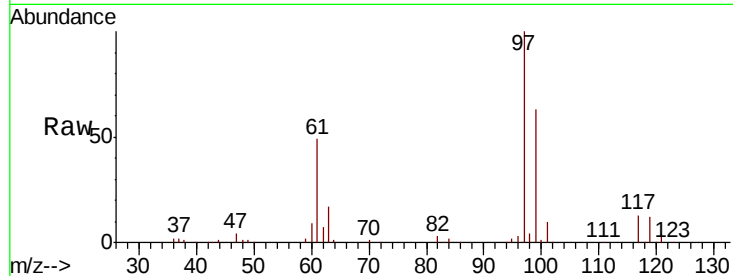




#29
 1,1,1-Trichloroethane
 Concen: 4.785 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

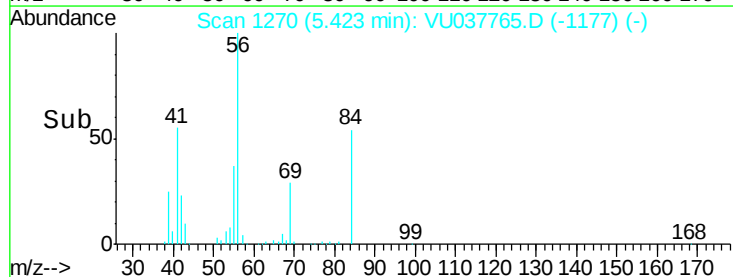
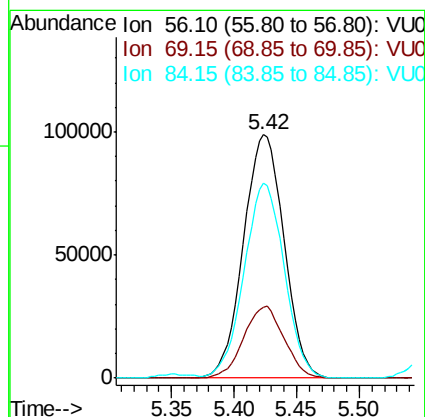
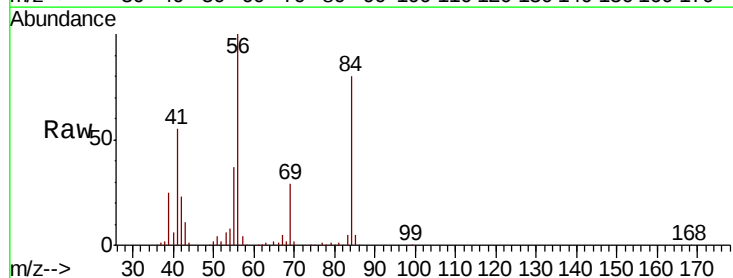
Instrument :
 MSVOA_U
 ClientSampled :

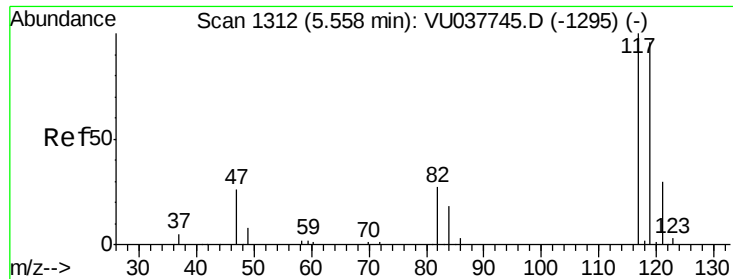
Tot Ion: 97 Resp: 177804
 Ion Ratio Lower Upper
 97 100
 99 63.1 52.0 78.0
 61 48.7 37.8 56.8



#30
 Cyclohexane
 Concen: 4.845 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion: 56 Resp: 222803
 Ion Ratio Lower Upper
 56 100
 69 29.4 23.9 35.9
 84 79.5 65.6 98.4





#31

Carbon tetrachloride

Concen: 4.830 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

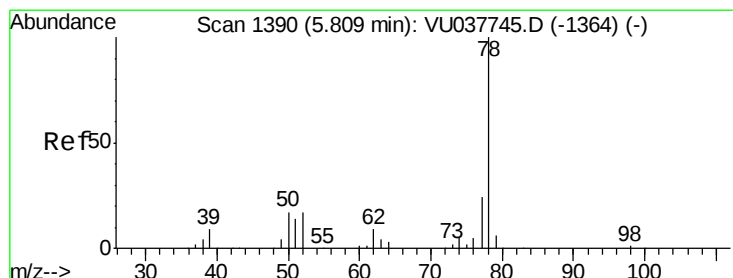
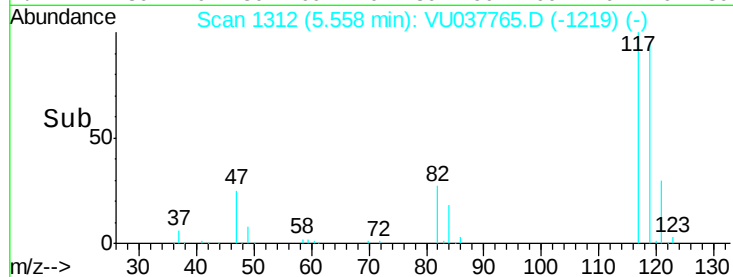
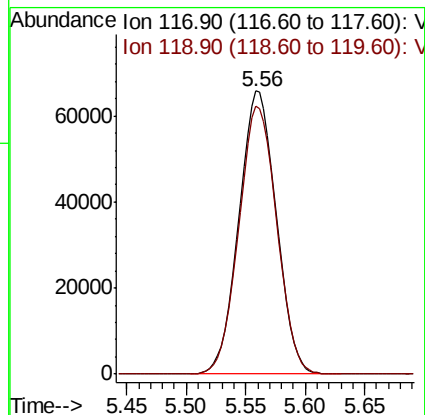
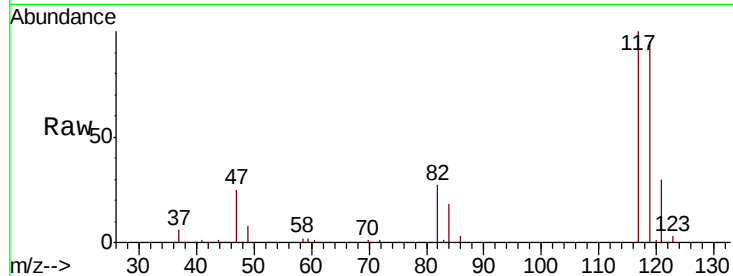
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 143005

Ion Ratio Lower Upper

117 100

119 96.2 77.4 116.0



#33

Benzene

Concen: 4.695 ug/L

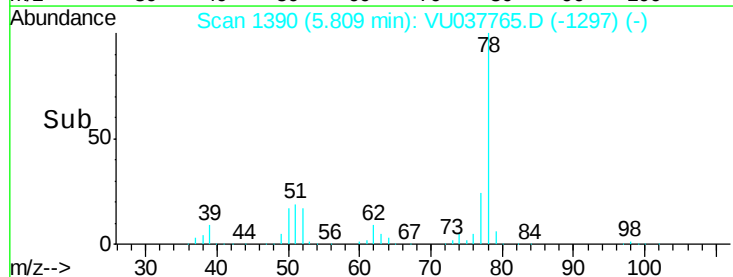
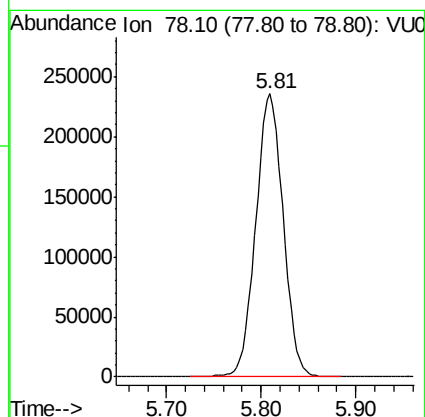
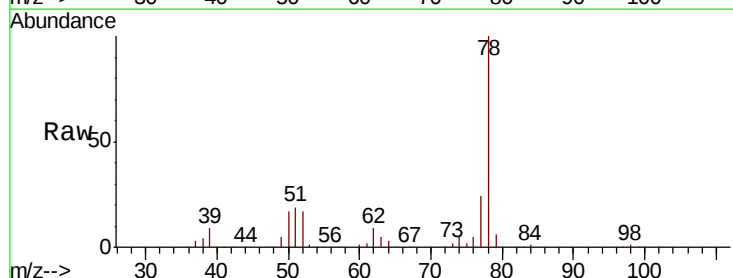
RT: 5.81 min Scan# 1390

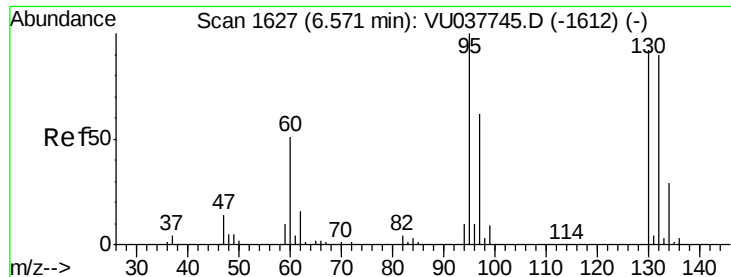
Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Tgt Ion: 78 Resp: 475018

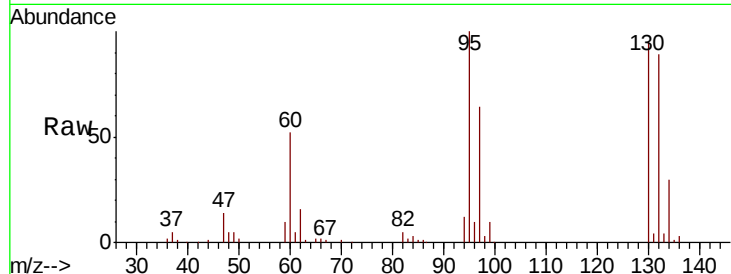




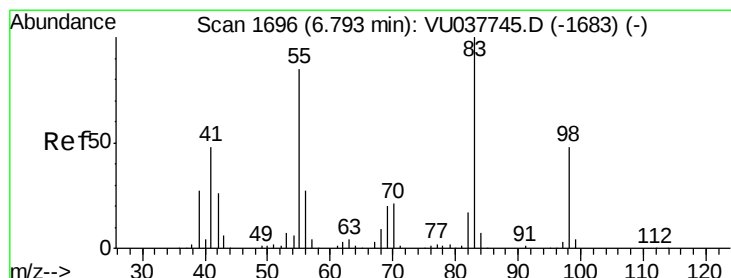
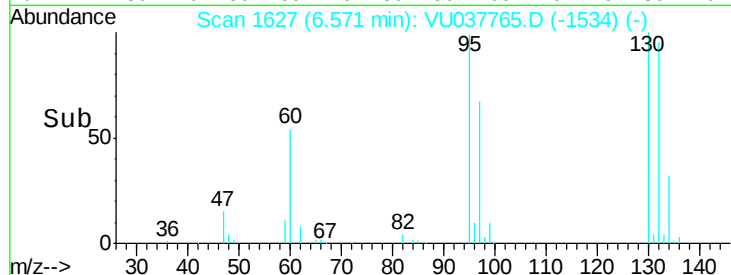
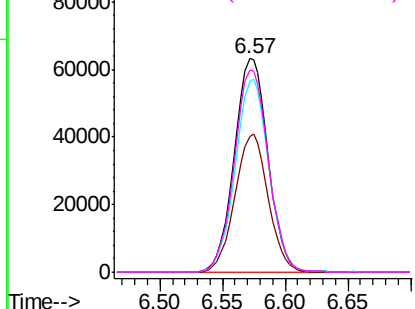
#34
 Trichloroethene
 Concen: 4.750 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 118096
 Ion Ratio Lower Upper
 95 100
 97 63.7 45.4 84.2
 132 89.4 63.7 118.3
 130 94.6 68.7 127.5

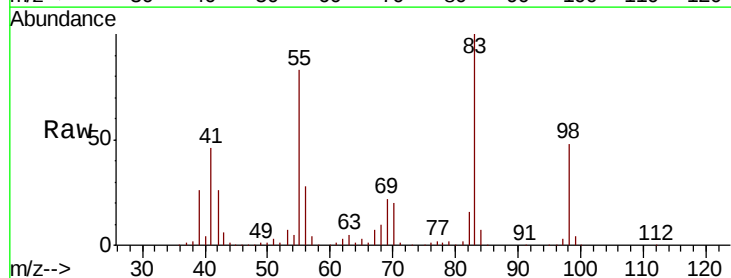


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

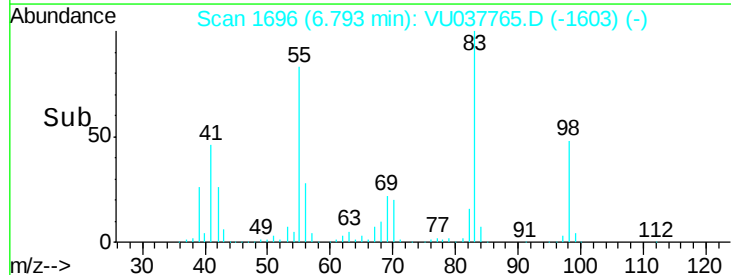
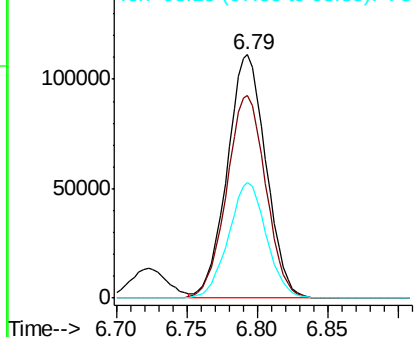


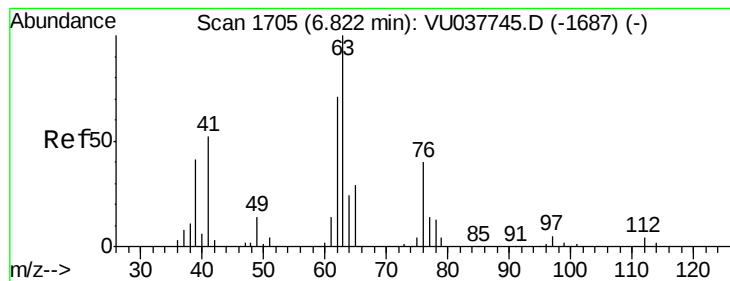
#35
 Methylcyclohexane
 Concen: 4.902 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion: 83 Resp: 213634
 Ion Ratio Lower Upper
 83 100
 55 84.1 65.5 98.3
 98 46.5 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: 4.769 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

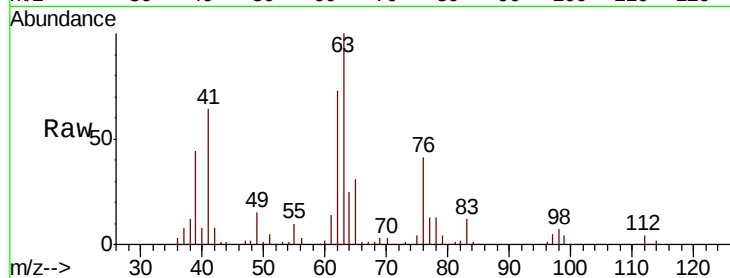
ClientSampleId :

Tot Ion: 63 Resp: 127962

Ion Ratio Lower Upper

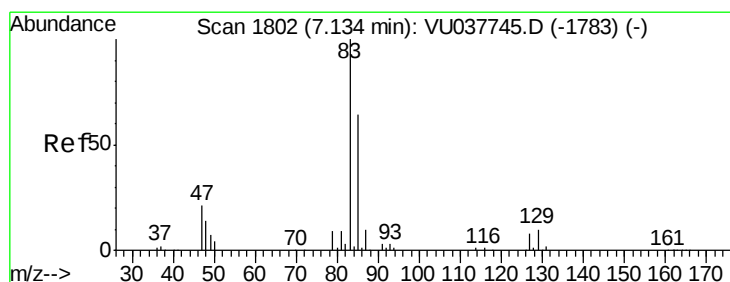
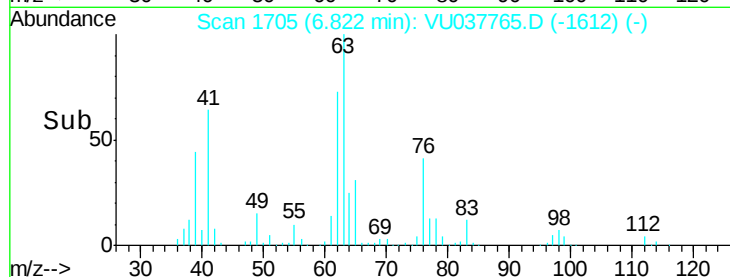
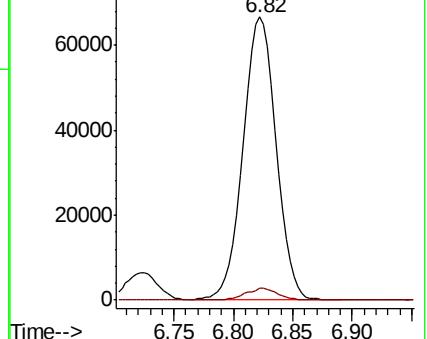
63 100

112 4.1 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VU037745.D (-1687) (-)

Ion 112.10 (111.80 to 112.80): VU037745.D (-1687) (-)



#38

Bromodichloromethane

Concen: 4.787 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

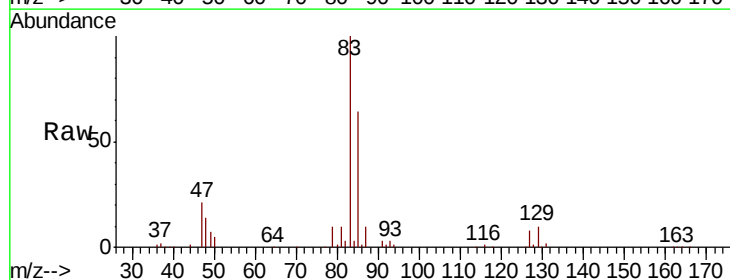
Tgt Ion: 83 Resp: 152735

Ion Ratio Lower Upper

83 100

85 63.8 45.1 83.7

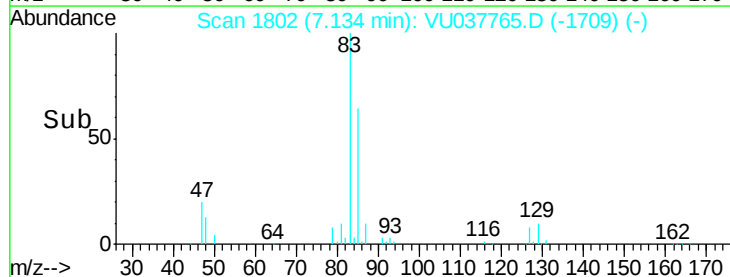
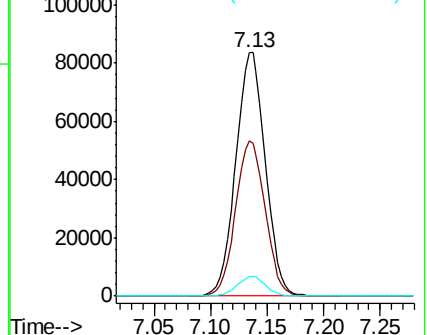
127 7.9 6.6 9.8

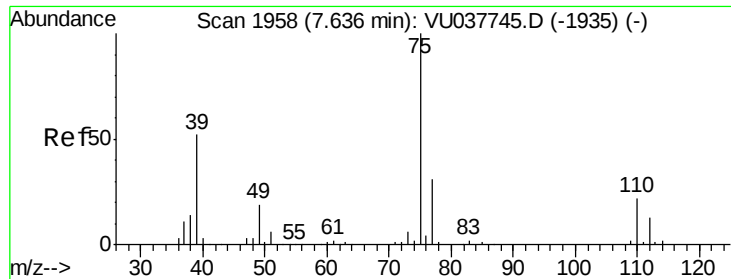


Abundance Ion 82.95 (82.65 to 83.65): VU037745.D (-1783) (-)

Ion 85.00 (84.70 to 85.70): VU037745.D (-1783) (-)

Ion 126.90 (126.60 to 127.60): VU037745.D (-1783) (-)

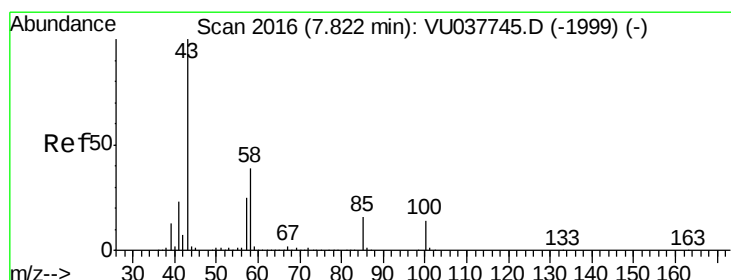
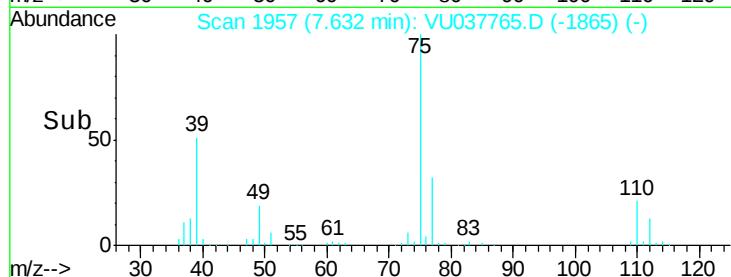
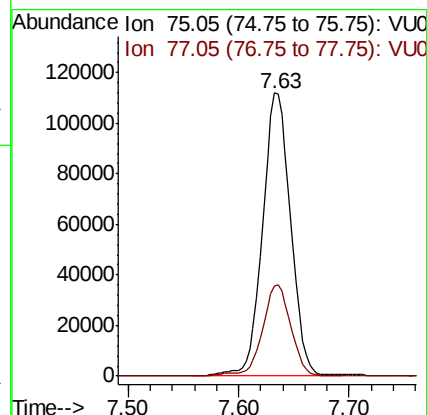
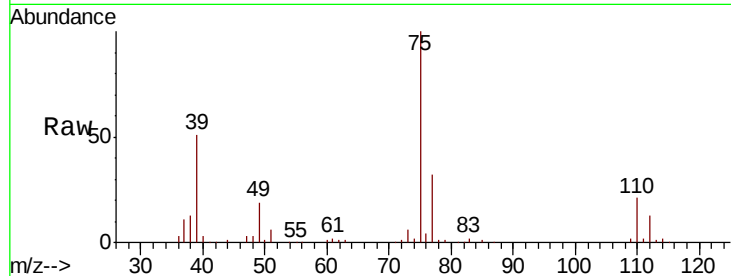




#39
 cis-1,3-Dichloropropene
 Concen: 4.719 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

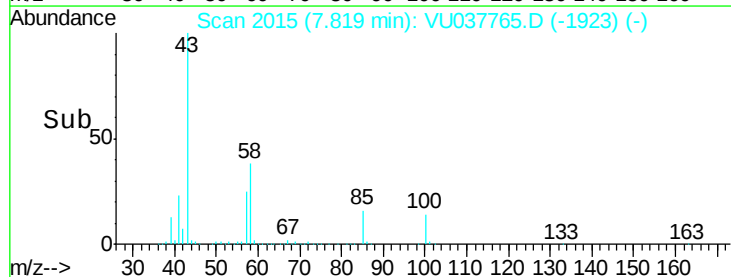
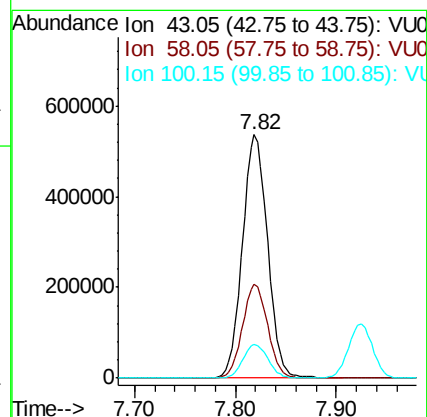
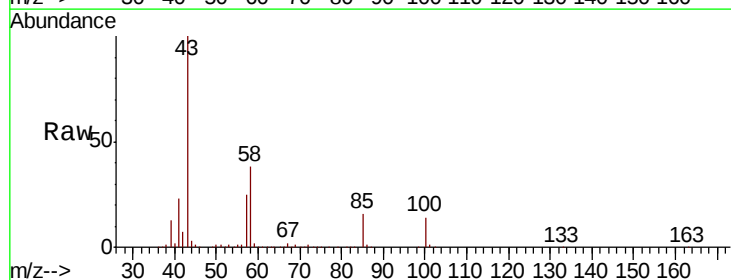
Instrument :
 MSVOA_U
 ClientSampled :

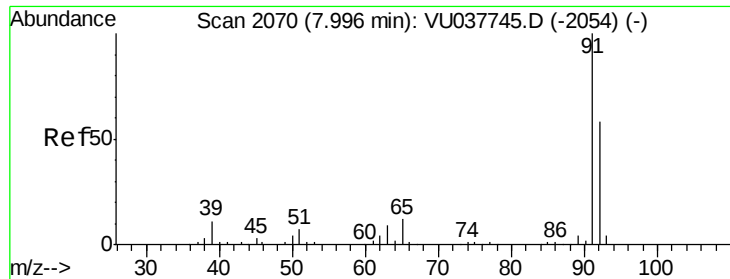
Tot Ion: 75 Resp: 198225
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 46.999 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion: 43 Resp: 927167
 Ion Ratio Lower Upper
 43 100
 58 38.4 31.3 46.9
 100 13.9 11.5 17.3





#42

Toluene

Concen: 4.758 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

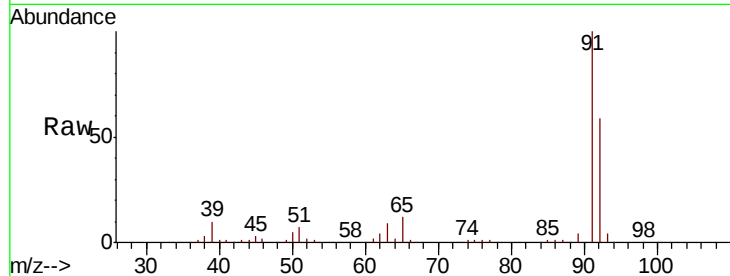
ClientSampleId :

Tot Ion: 91 Resp: 504213

Ion Ratio Lower Upper

91 100

92 58.9 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU037745.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU037745.D (-2054) (-)

8.00

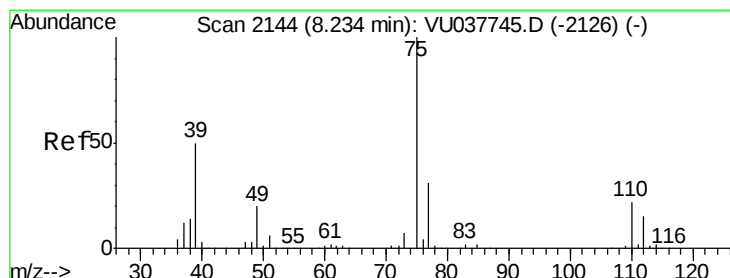
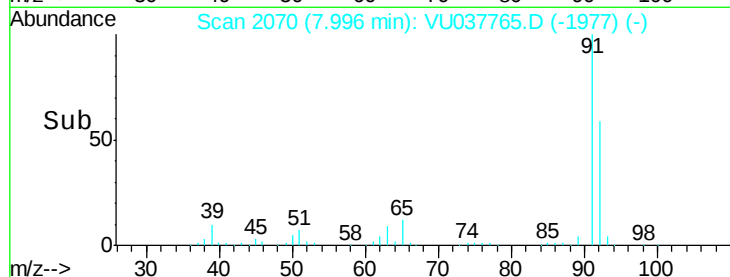
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.694 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037765.D

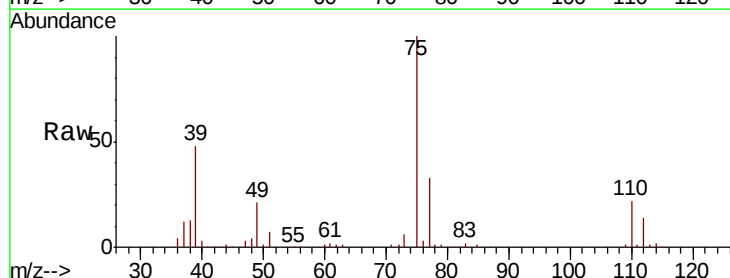
Acq: 17 Apr 2020 10:13

Tgt Ion: 75 Resp: 171156

Ion Ratio Lower Upper

75 100

77 32.7 21.4 39.8



Abundance Ion 75.05 (74.75 to 75.75): VU037745.D (-2126) (-)

Ion 77.05 (76.75 to 77.75): VU037745.D (-2126) (-)

8.24

120000

100000

80000

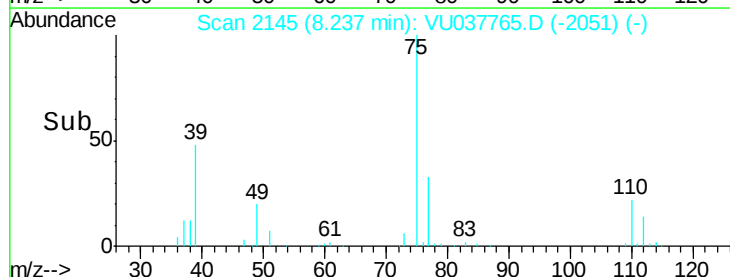
60000

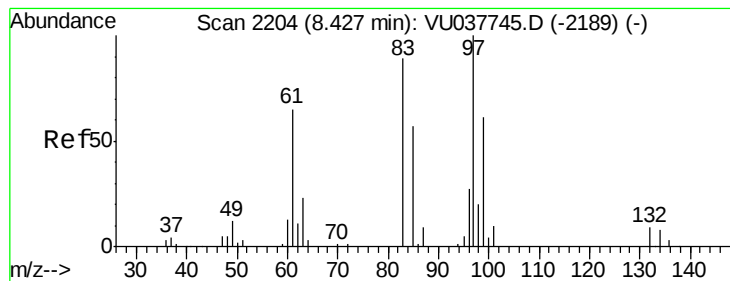
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.646 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 84016

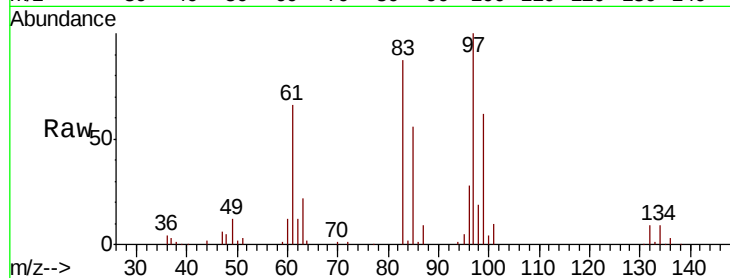
Ion Ratio Lower Upper

97 100

99 61.9 43.1 80.1

83 86.7 62.4 116.0

85 56.0 39.6 73.6



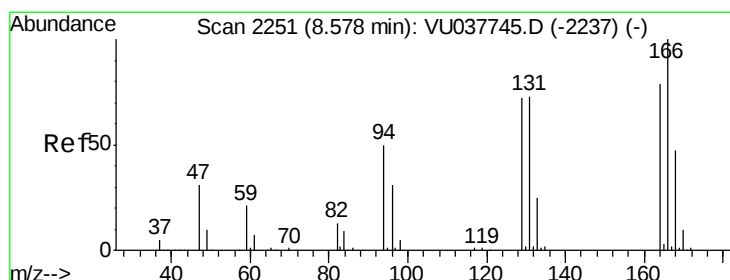
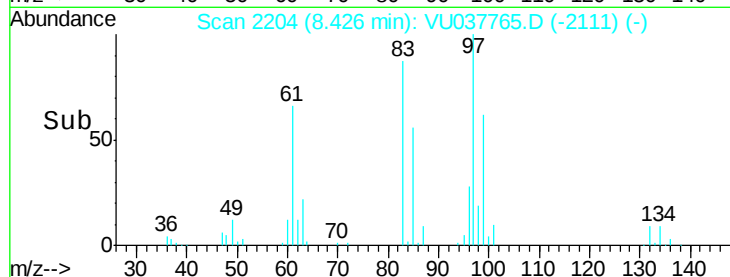
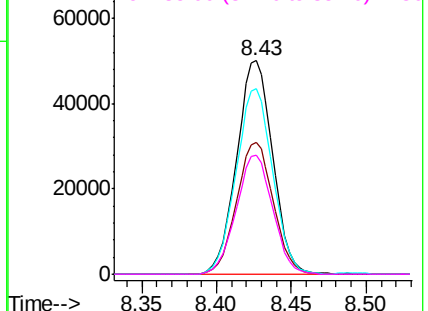
Abundance

Ion 96.95 (96.65 to 97.65): VU037765.D (-2111) (-)

Ion 99.05 (98.75 to 99.75): VU037765.D (-2111) (-)

Ion 82.95 (82.65 to 83.65): VU037765.D (-2111) (-)

Ion 85.00 (84.70 to 85.70): VU037765.D (-2111) (-)



#47

Tetrachloroethene

Concen: 4.848 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Tgt Ion: 164 Resp: 86625

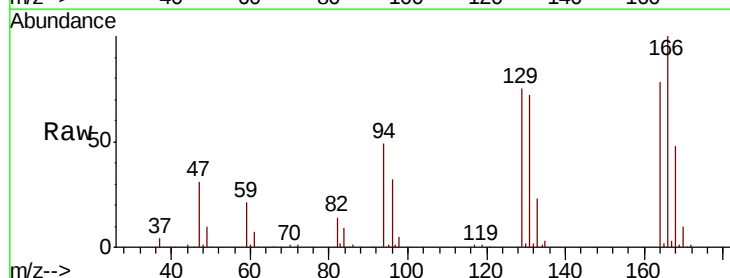
Ion Ratio Lower Upper

164 100

129 95.8 68.1 126.5

131 92.8 65.9 122.5

166 128.0 89.7 166.7



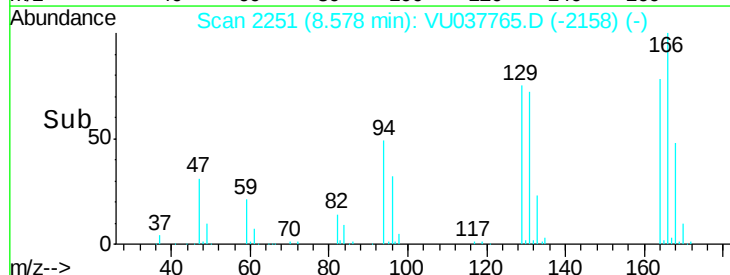
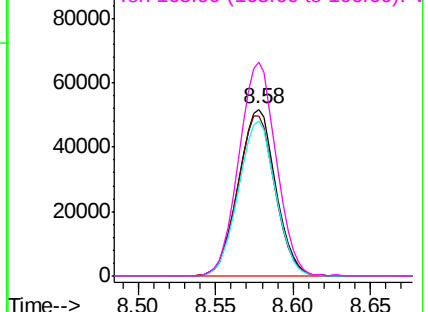
Abundance

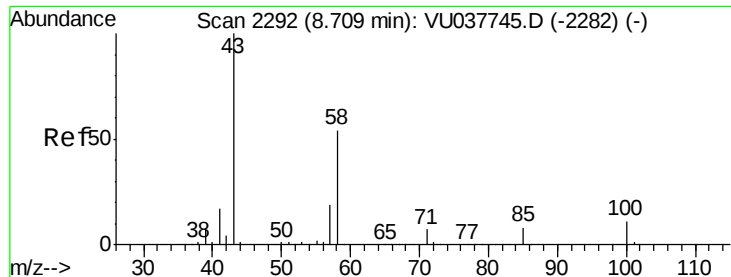
Ion 163.90 (163.60 to 164.60): VU037765.D (-2158) (-)

Ion 128.95 (128.65 to 129.65): VU037765.D (-2158) (-)

Ion 130.95 (130.65 to 131.65): VU037765.D (-2158) (-)

Ion 165.90 (165.60 to 166.60): VU037765.D (-2158) (-)

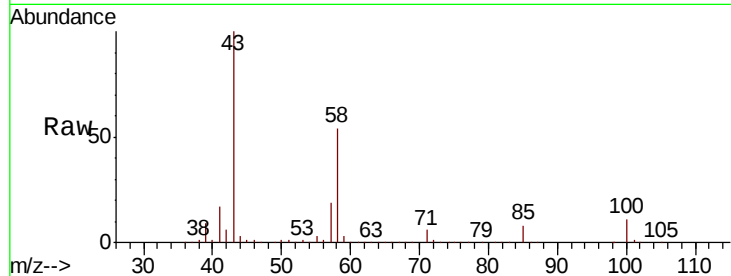




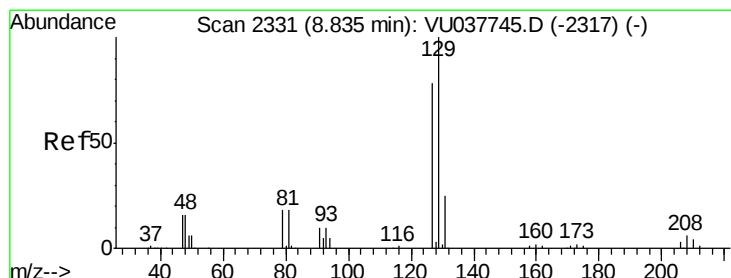
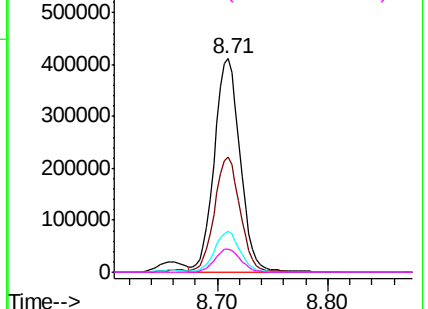
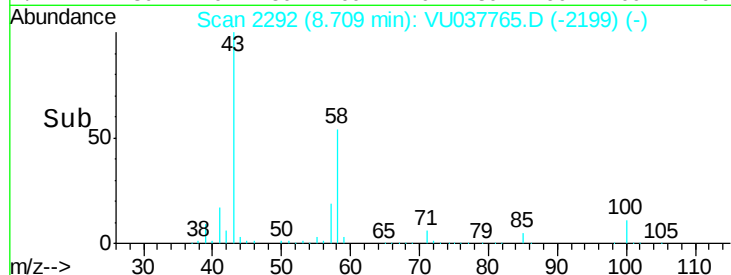
#48
2-Hexanone
Concen: 47.288 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 667915
Ion Ratio Lower Upper
43 100
58 53.5 43.6 65.4
57 18.6 15.4 23.0
100 10.8 9.1 13.7

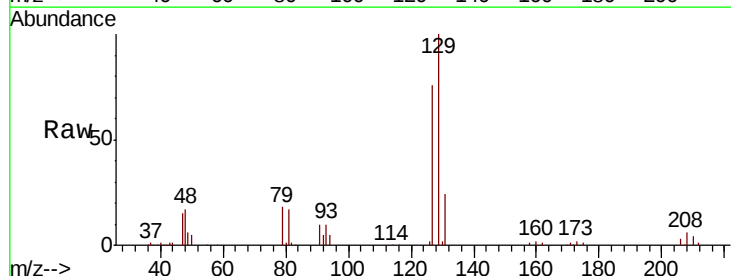


Abundance Ion 43.05 (42.75 to 43.75): VU037765.D (-2199) (-)
Ion 58.05 (57.75 to 58.75): VU037765.D (-2199) (-)
Ion 57.20 (56.90 to 57.90): VU037765.D (-2199) (-)
Ion 100.15 (99.85 to 100.85): VU037765.D (-2199) (-)

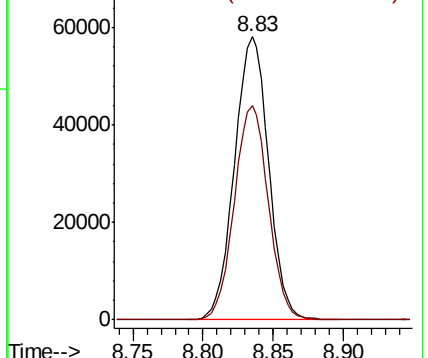
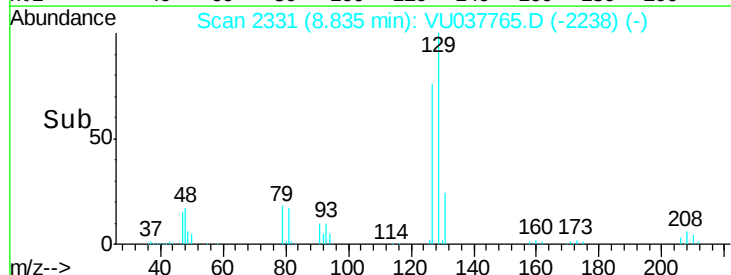


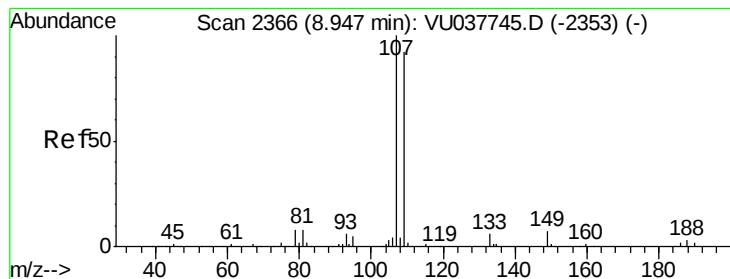
#49
Dibromochloromethane
Concen: 4.774 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

Tgt Ion: 129 Resp: 98655
Ion Ratio Lower Upper
129 100
127 75.8 53.3 98.9



Abundance Ion 128.95 (128.65 to 129.65): VU037765.D (-2238) (-)
Ion 126.90 (126.60 to 127.60): VU037765.D (-2238) (-)

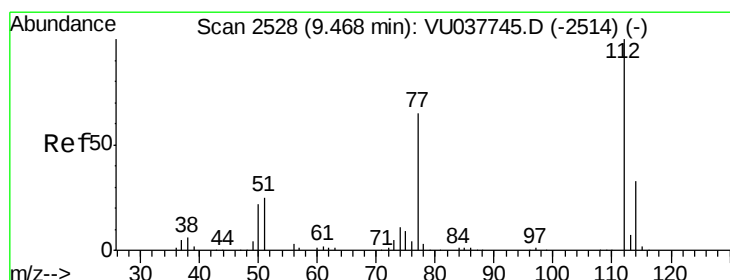
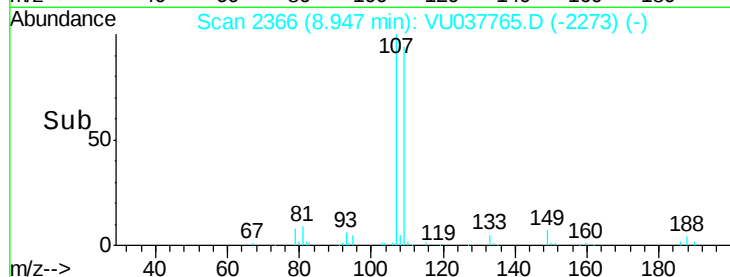
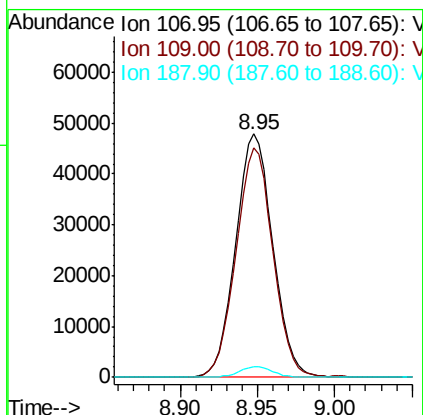
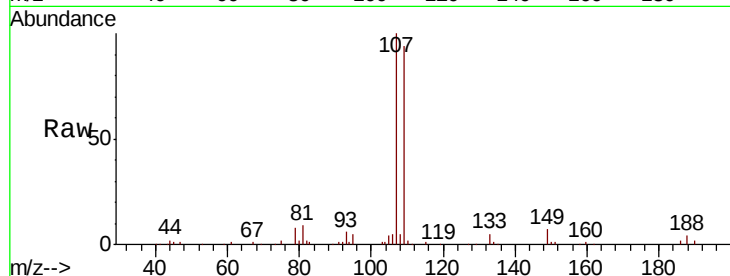




#50
 1,2-Dibromoethane
 Concen: 4.583 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

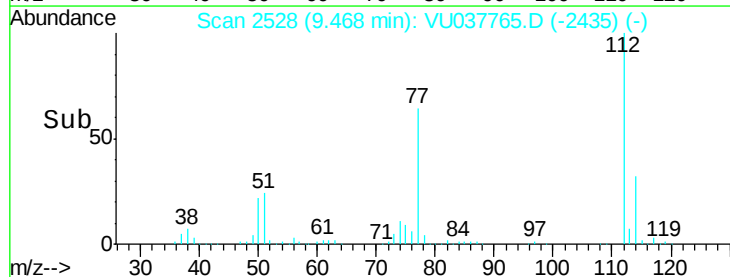
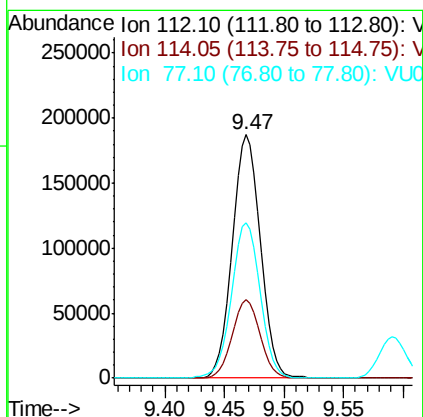
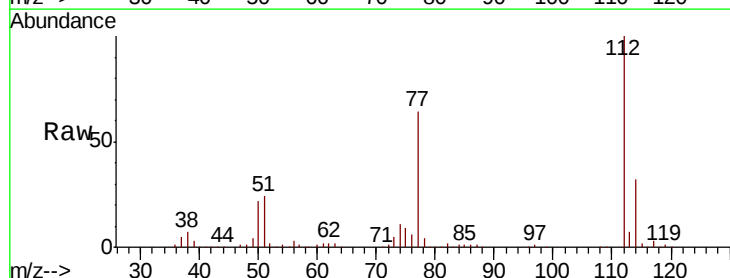
Instrument :
 MSVOA_U
 ClientSampleId :

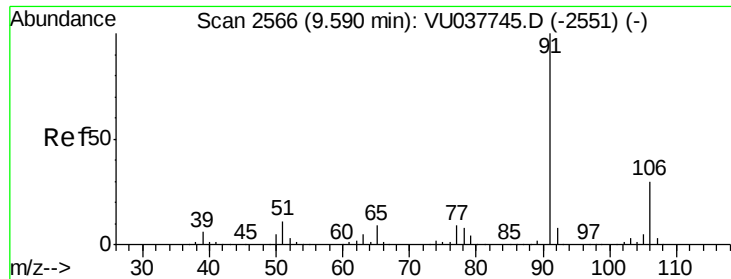
Tot Ion:107 Resp: 79686
 Ion Ratio Lower Upper
 107 100
 109 94.1 66.3 123.1
 188 4.2 2.5 3.7#



#51
 Chlorobenzene
 Concen: 4.744 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion:112 Resp: 306757
 Ion Ratio Lower Upper
 112 100
 114 32.1 22.6 42.0
 77 63.9 50.2 75.4

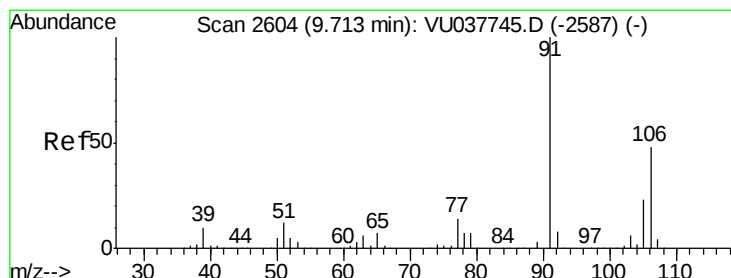
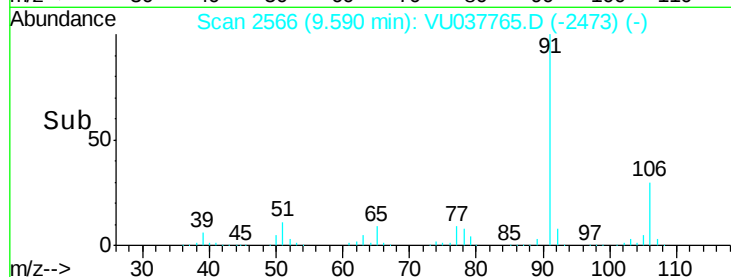
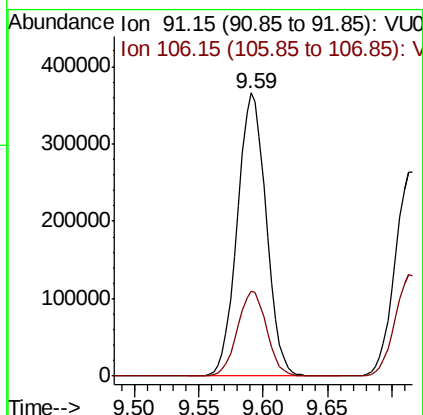
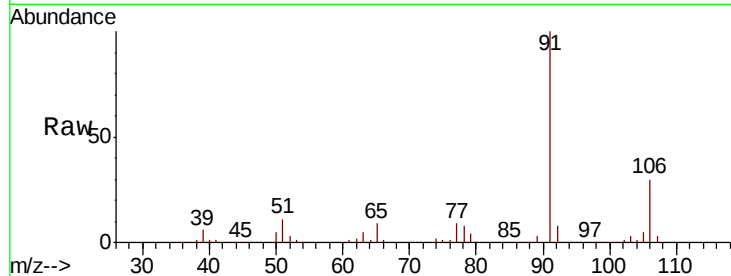




#52
Ethylbenzene
Concen: 4.829 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

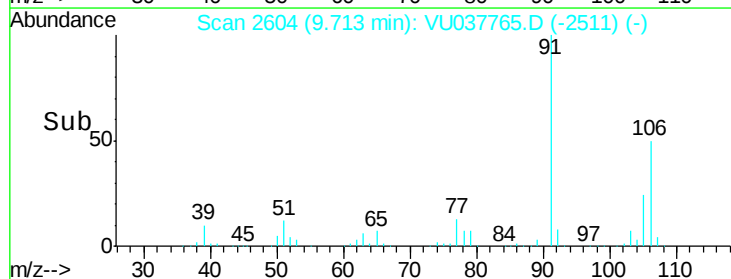
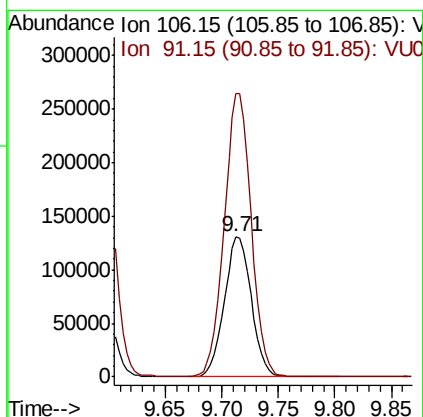
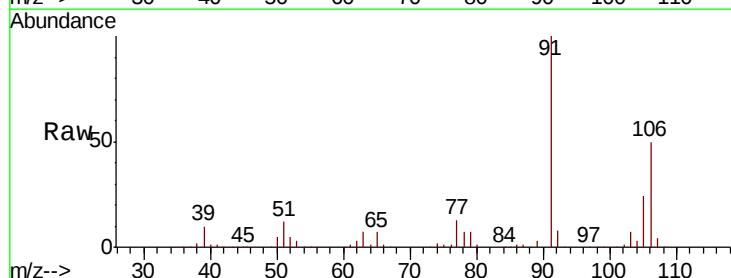
Instrument :
MSVOA_U
ClientSampled :

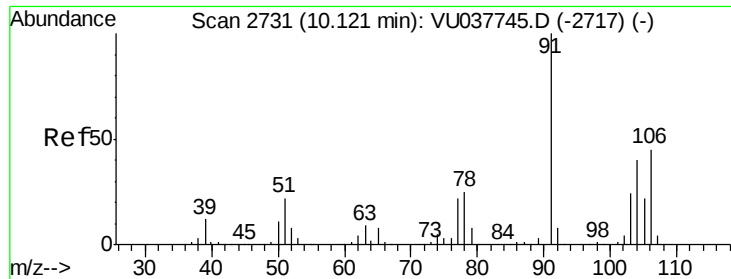
Tot Ion: 91 Resp: 569359
Ion Ratio Lower Upper
91 100
106 29.9 21.7 40.3



#53
m,p-Xylene
Concen: 4.868 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

Tgt Ion: 106 Resp: 217235
Ion Ratio Lower Upper
106 100
91 201.2 143.9 267.3

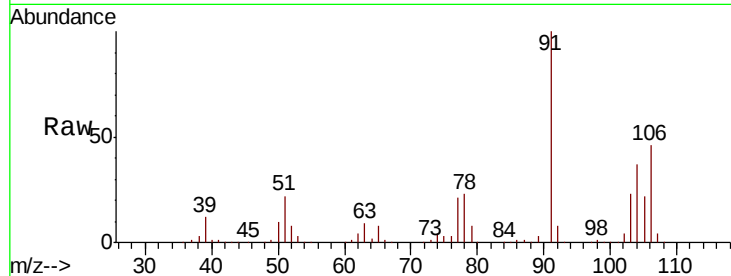




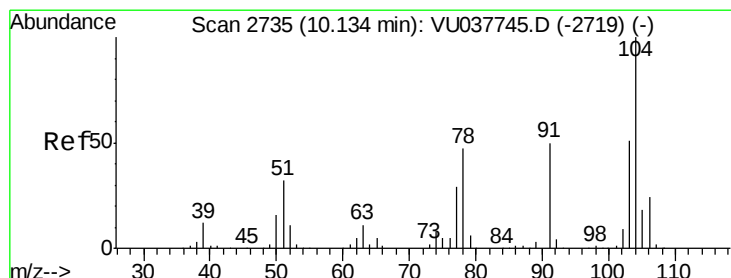
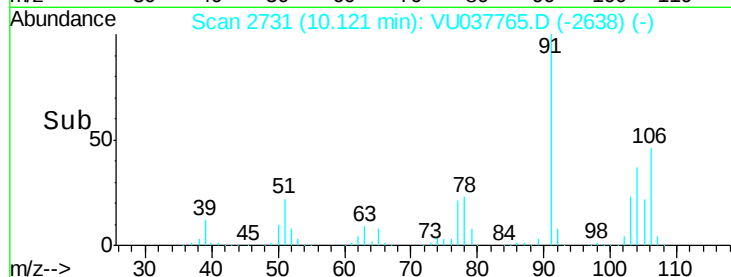
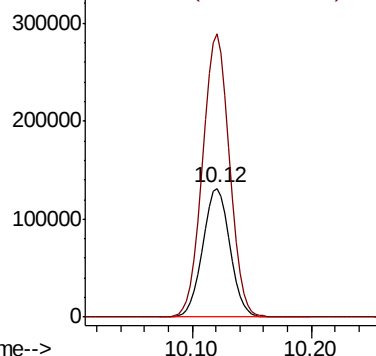
#54
o-Xylene
Concen: 4.745 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 208399
Ion Ratio Lower Upper
106 100
91 219.4 151.1 280.7

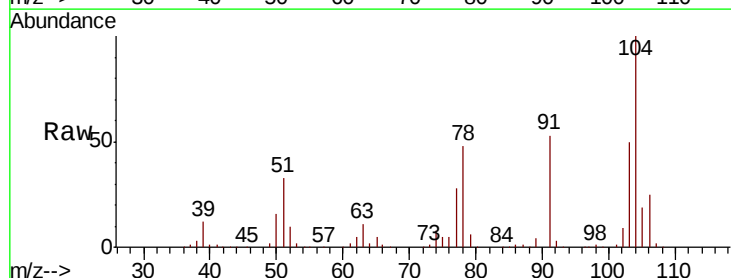


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

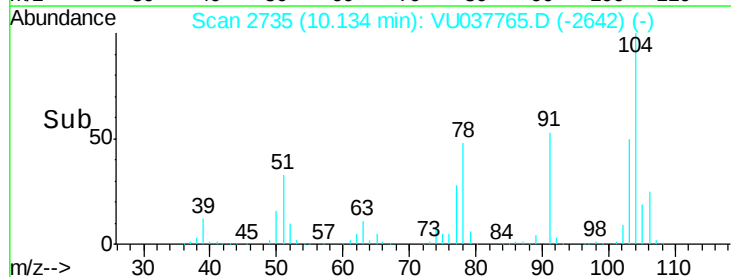
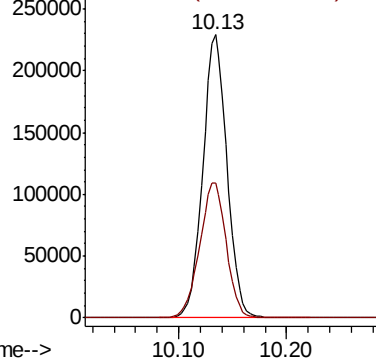


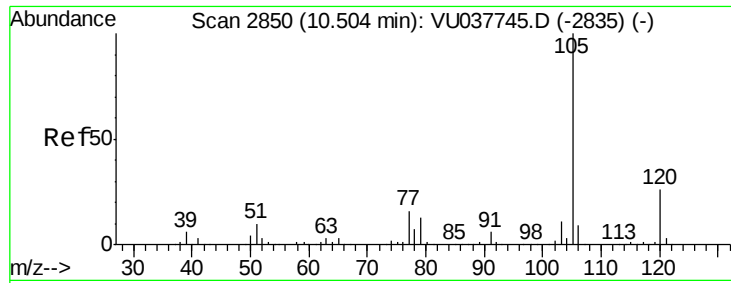
#55
Styrene
Concen: 4.769 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VU037765.D
Acq: 17 Apr 2020 10:13

Tgt Ion:104 Resp: 358089
Ion Ratio Lower Upper
104 100
78 47.7 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: 4.917 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

ClientSampleId :

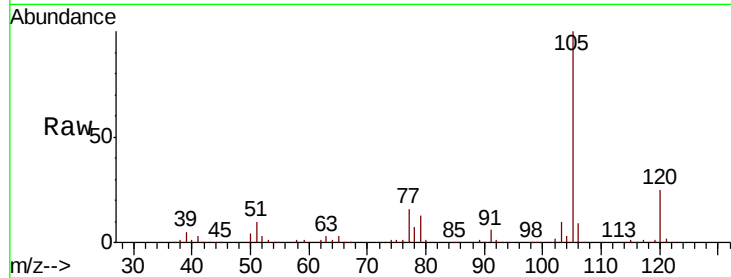
Tot Ion:105 Resp: 566471

Ion Ratio Lower Upper

105 100

120 25.6 20.6 31.0

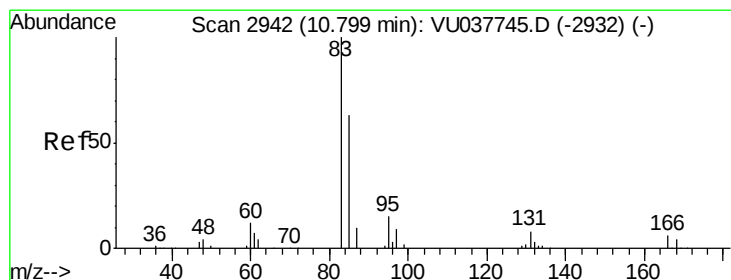
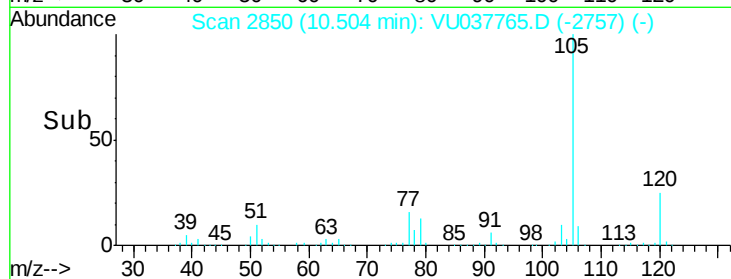
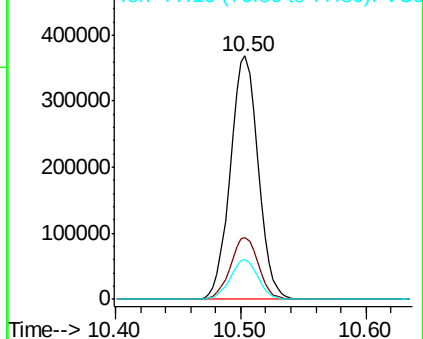
77 16.3 13.2 19.8



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: 4.640 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

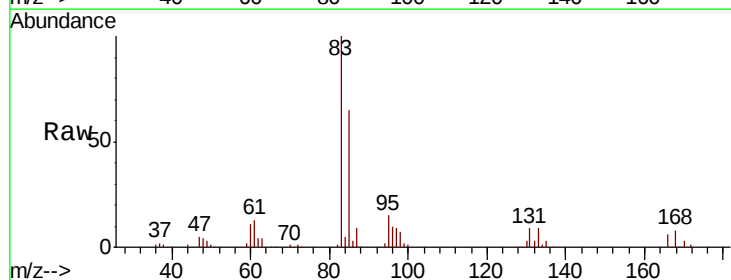
Tgt Ion: 83 Resp: 109228

Ion Ratio Lower Upper

83 100

85 64.8 45.3 84.1

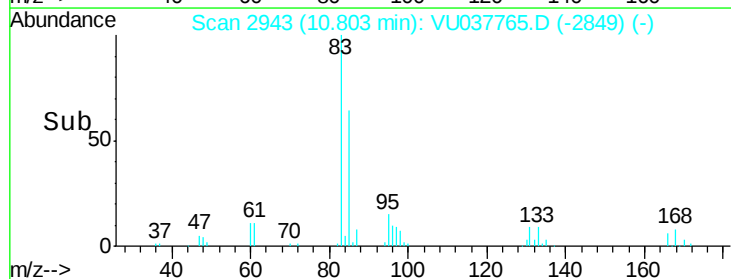
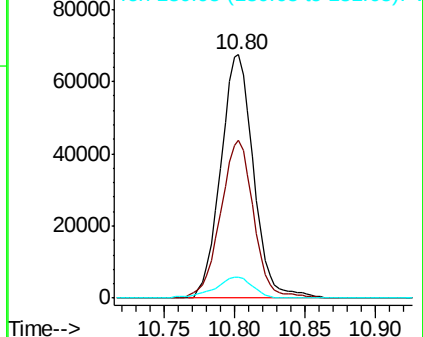
131 8.7 7.4 11.2

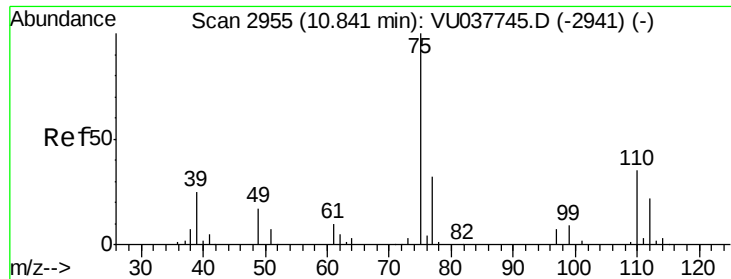


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): VU0

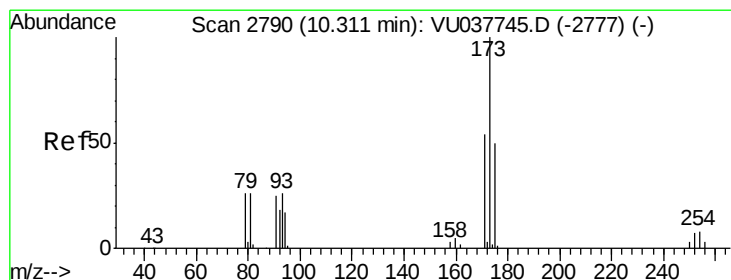
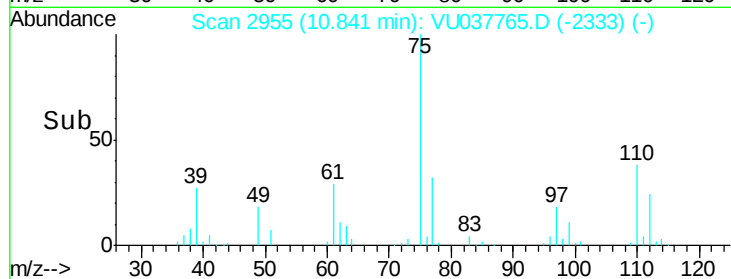
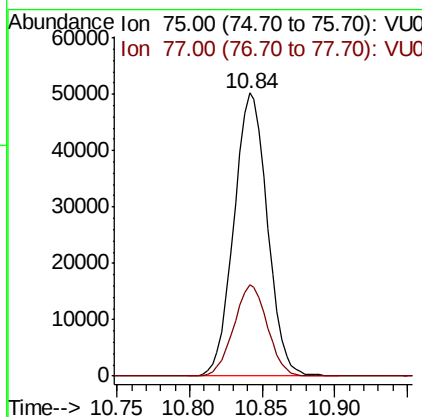
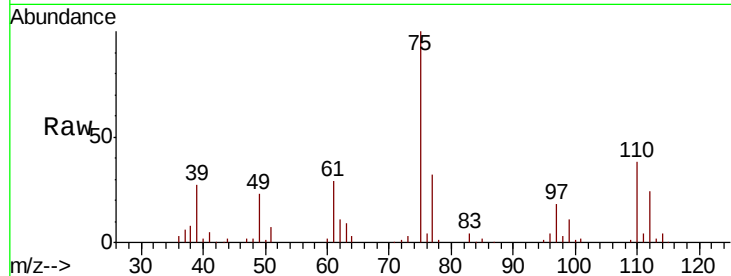




#59
 1,2,3-Trichloropropane
 Concen: 4.578 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

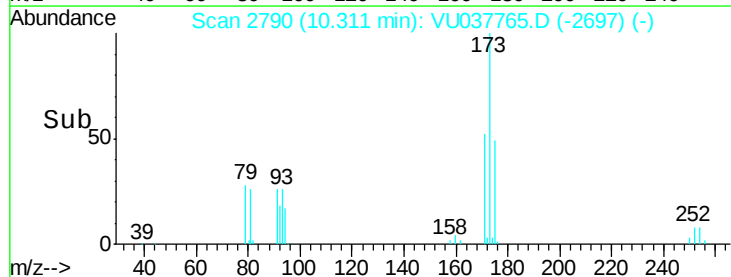
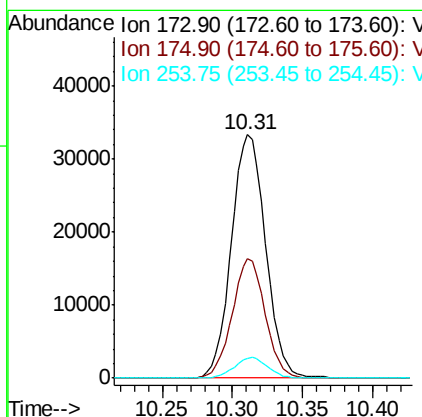
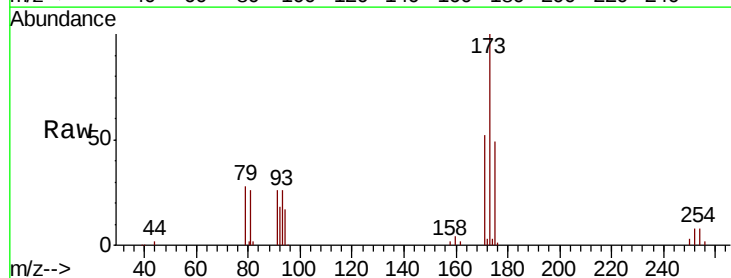
Instrument :
 MSVOA_U
 ClientSampled :

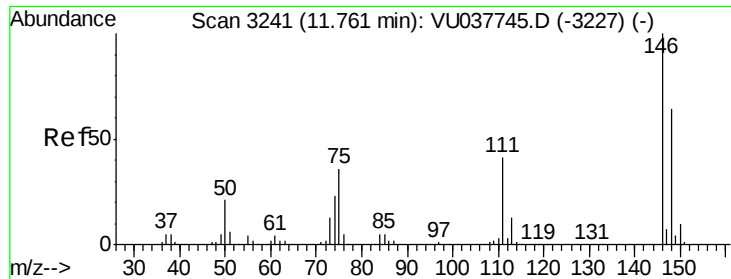
Tot Ion: 75 Resp: 80401
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.4 38.2



#61
 Bromoform
 Concen: 4.604 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion:173 Resp: 56652
 Ion Ratio Lower Upper
 173 100
 175 47.2 37.6 56.4
 254 8.1 5.8 8.8





#62

1,3-Dichlorobenzene

Concen: 4.745 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

ClientSampleId :

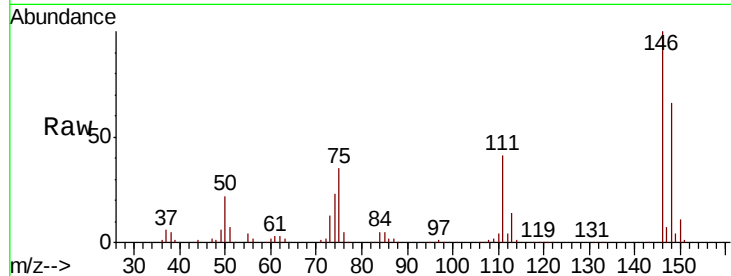
Tot Ion:146 Resp: 246104

Ion Ratio Lower Upper

146 100

111 41.4 29.8 55.3

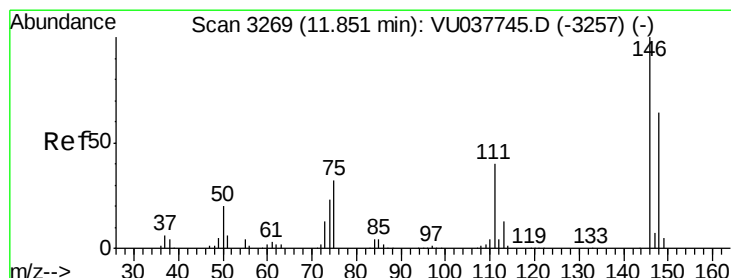
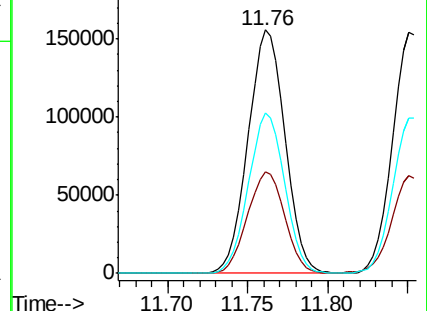
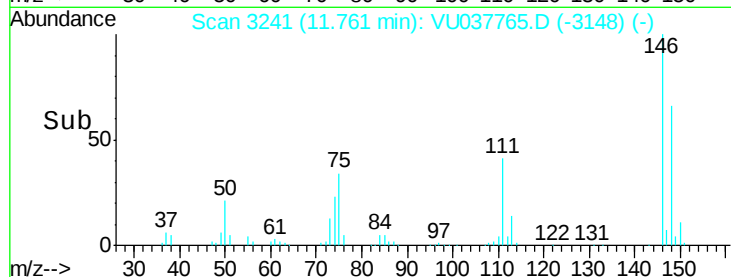
148 65.6 44.5 82.7



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



#63

1,4-Dichlorobenzene

Concen: 4.718 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

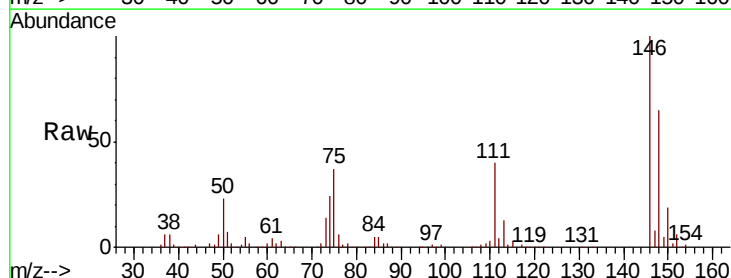
Tgt Ion:146 Resp: 245393

Ion Ratio Lower Upper

146 100

111 40.4 28.4 52.8

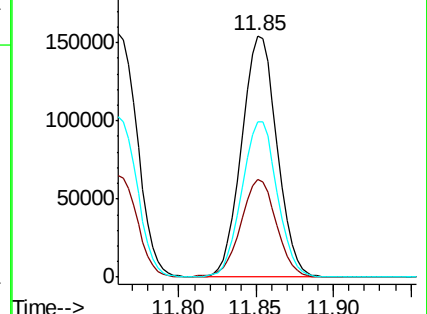
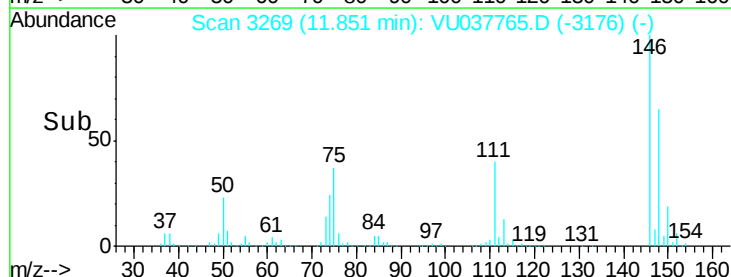
148 64.5 44.9 83.3

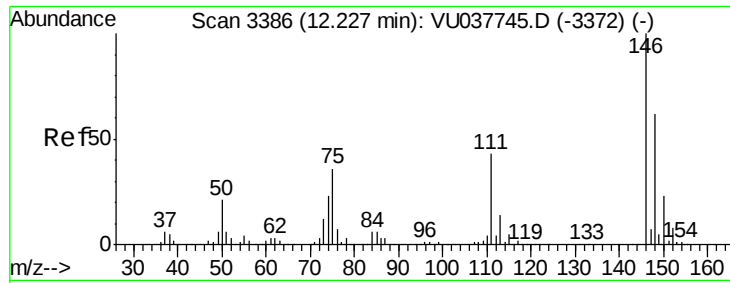


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

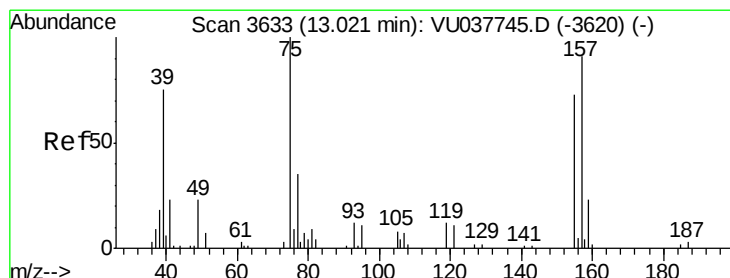
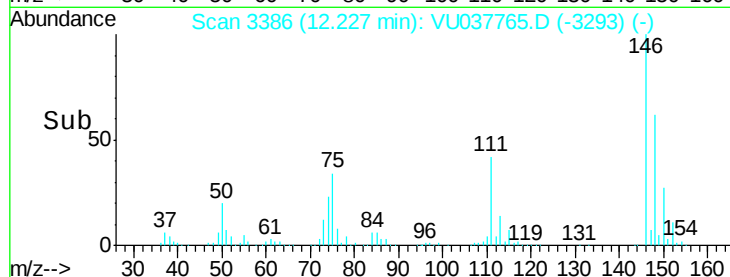
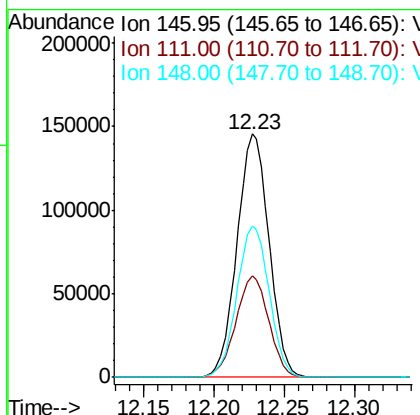
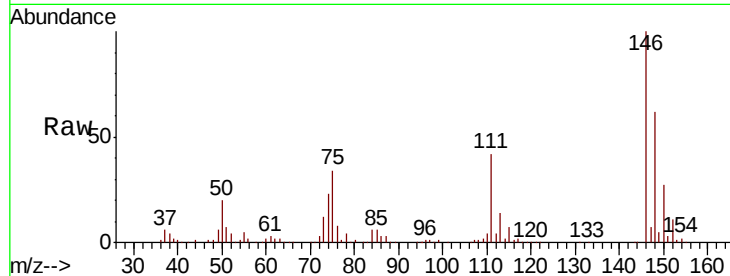




#65
 1,2-Dichlorobenzene
 Concen: 4.756 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

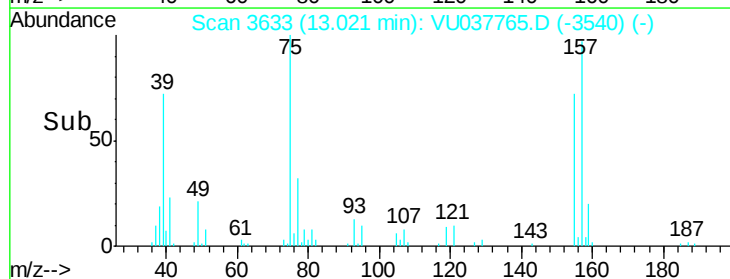
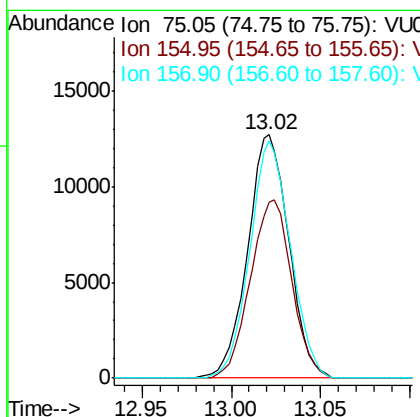
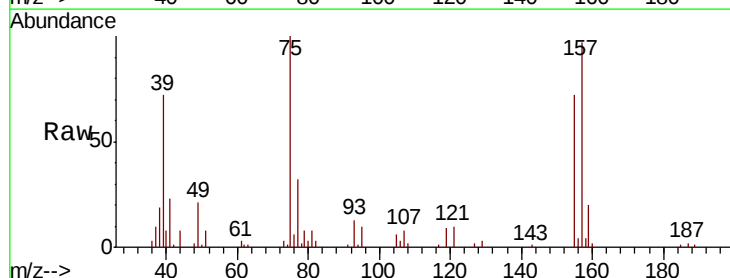
Instrument :
 MSVOA_U
 ClientSampleId :

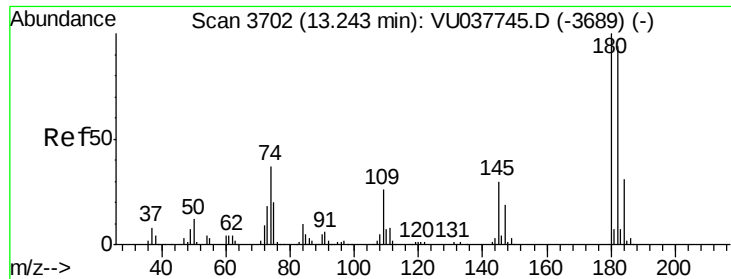
Tot Ion:146 Resp: 232209
 Ion Ratio Lower Upper
 146 100
 111 41.7 35.0 52.6
 148 62.4 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.539 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion: 75 Resp: 20544
 Ion Ratio Lower Upper
 75 100
 155 72.0 57.9 86.9
 157 97.4 79.8 119.8

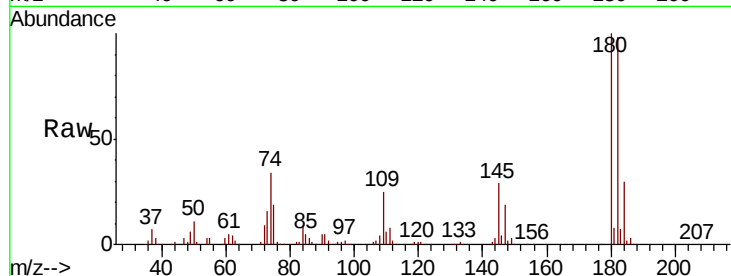




#67
 1,3,5-Trichlorobenzene
 Concen: 5.024 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.1	115.7
184	29.6	24.7	37.1
145	29.6	24.6	37.0



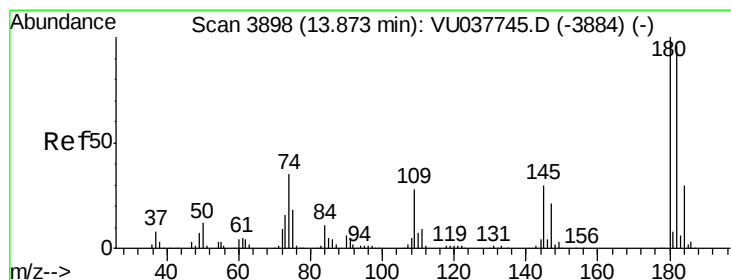
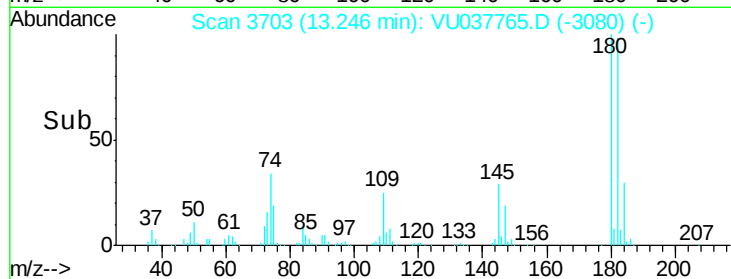
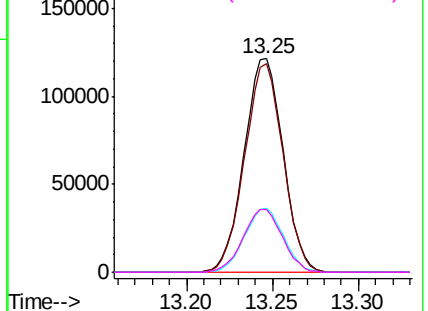
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

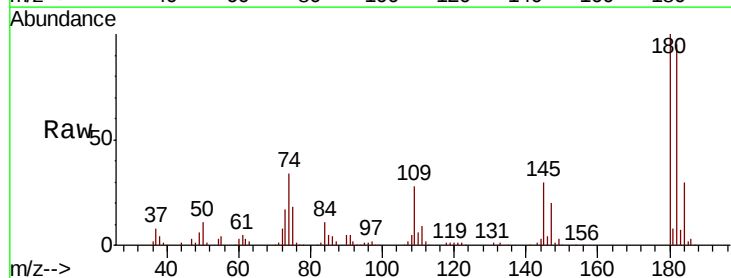
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.891 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. -0.00 min
 Lab File: VU037765.D
 Acq: 17 Apr 2020 10:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.4	114.6
145	30.3	25.1	37.7

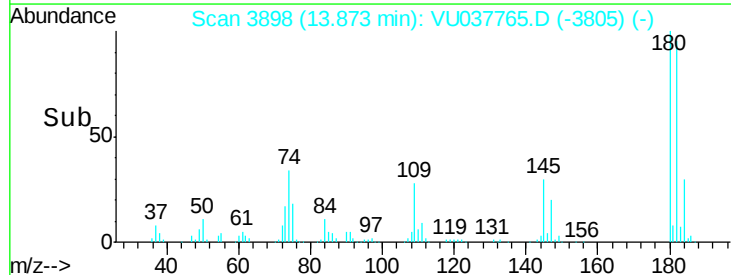
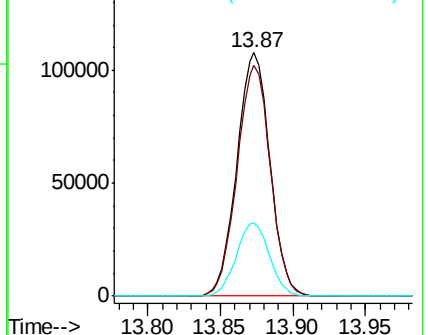


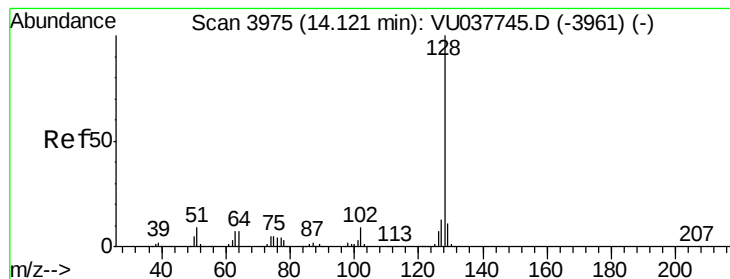
Abundance

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: 4.582 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

Instrument :

MSVOA_U

ClientSampleId :

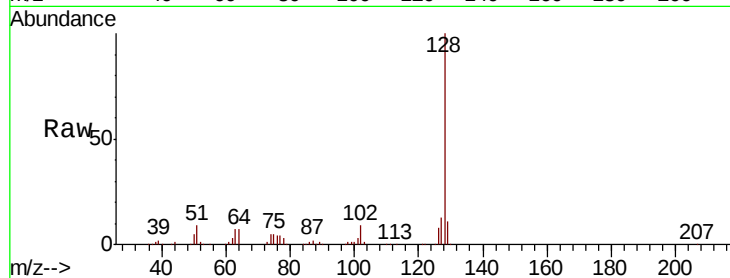
Tot Ion:128 Resp: 323935

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

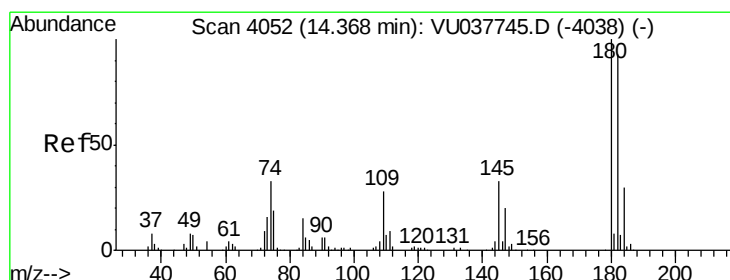
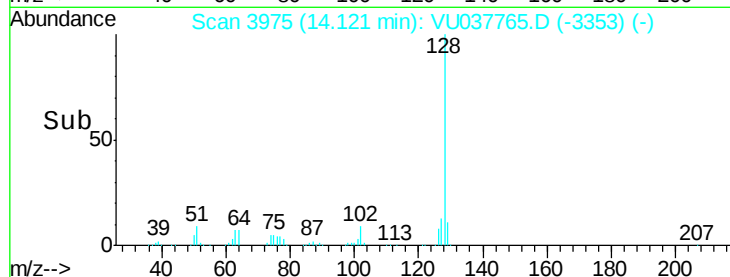
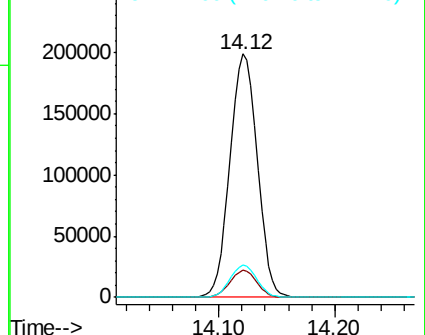
127 13.1 10.4 15.6



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: 4.840 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VU037765.D

Acq: 17 Apr 2020 10:13

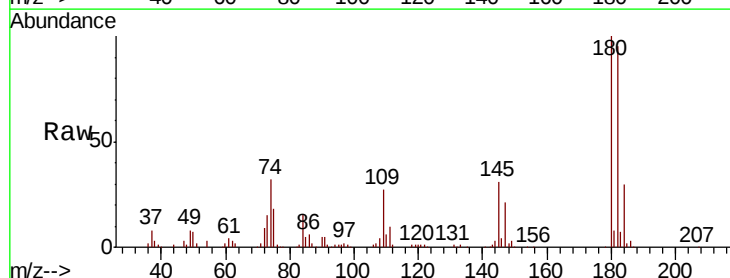
Tgt Ion:180 Resp: 150556

Ion Ratio Lower Upper

180 100

182 95.5 76.6 115.0

145 32.0 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

