

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041620\
 Data File : VU037763.D
 Acq On : 16 Apr 2020 18:46
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 17 01:37:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 01:29:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	267664	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	256708	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	133508	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	82348	4.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.40%
7) Chloroethane-d5	1.93	69	75161	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.59	63	155822	4.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.60%
20) 2-Butanone-d5	4.66	46	302087	54.31	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.62%
24) Chloroform-d	5.10	84	152987	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.74	65	94081	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
32) Benzene-d6	5.76	84	315367	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
36) 1,2-Dichloropropane-d6	6.72	67	109505	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.92	98	280025	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.00%
43) trans-1,3-Dichloropropene-	8.20	79	46581	4.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.80%
46) 2-Hexanone-d5	8.65	63	273368	52.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.34%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	91074	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	109656	4.60	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	118986	5.124	ug/L 98
3) Chloromethane	1.53	50	132178	4.604	ug/L 97
5) Vinyl chloride	1.62	62	137082	4.860	ug/L 100
6) Bromomethane	1.87	94	56677	3.500	ug/L 99
8) Chloroethane	1.95	64	78091	4.716	ug/L 99
9) Trichlorofluoromethane	2.16	101	146118	4.828	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	84496	4.795	ug/L 98
12) 1,1-Dichloroethene	2.60	96	82945	4.491	ug/L 92
13) Acetone	2.65	43	169274	46.155	ug/L 96
14) Carbon disulfide	2.82	76	301540	4.471	ug/L 100
15) Methyl Acetate	2.98	43	49117	4.817	ug/L 97
16) Methylene chloride	3.08	84	95319	4.577	ug/L 95
17) Methyl tert-butyl Ether	3.40	73	250089	4.676	ug/L 97
18) trans-1,2-Dichloroethene	3.38	96	93465	4.667	ug/L 96
19) 1,1-Dichloroethane	3.91	63	191177	4.936	ug/L 99
21) 2-Butanone	4.74	43	320940	48.164	ug/L 99
22) cis-1,2-Dichloroethene	4.71	96	102788	4.751	ug/L 98

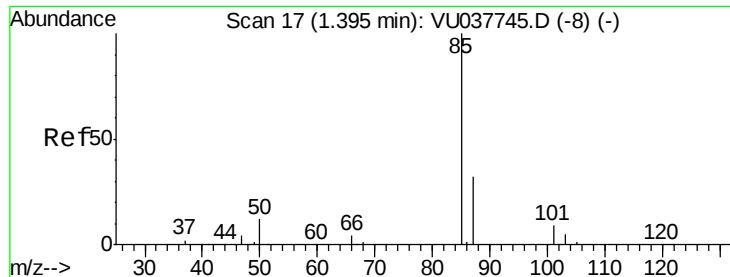
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041620\
 Data File : VU037763.D
 Acq On : 16 Apr 2020 18:46
 Operator : JC/MD
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Quant Time: Apr 17 01:37:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 01:29:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	42962	4.685	ug/L	95
25) Chloroform	5.13	83	184832	5.023	ug/L	99
27) 1,2-Dichloroethane	5.83	62	127528	5.128	ug/L	99
29) 1,1,1-Trichloroethane	5.35	97	153144	4.917	ug/L	99
30) Cyclohexane	5.42	56	190380	4.938	ug/L	98
31) Carbon tetrachloride	5.56	117	122563	4.938	ug/L	100
33) Benzene	5.81	78	406325	4.791	ug/L	100
34) Trichloroethene	6.57	95	109327	5.245	ug/L	98
35) Methylcyclohexane	6.79	83	177837	4.868	ug/L	97
37) 1,2-Dichloropropane	6.82	63	110521	4.913	ug/L	99
38) Bromodichloromethane	7.13	83	131662	4.922	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	169285	4.808	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	807624	48.835	ug/L	99
42) Toluene	7.99	91	433598	4.880	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	144916	4.741	ug/L	97
45) 1,1,2-Trichloroethane	8.42	97	72202	4.763	ug/L	99
47) Tetrachloroethene	8.57	164	71948	4.803	ug/L	97
48) 2-Hexanone	8.71	43	579205	48.917	ug/L	98
49) Dibromochloromethane	8.83	129	84169	4.859	ug/L	98
50) 1,2-Dibromoethane	8.95	107	68580	4.705	ug/L #	98
51) Chlorobenzene	9.47	112	261277	4.820	ug/L	98
52) Ethylbenzene	9.59	91	480716	4.864	ug/L	99
53) m,p-Xylene	9.71	106	182962	4.891	ug/L	98
54) o-Xylene	10.12	106	176339	4.789	ug/L	99
55) Styrene	10.13	104	306171	4.865	ug/L	98
56) Isopropylbenzene	10.50	105	475891	4.928	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	94158	4.772	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	70225	4.770	ug/L	99
61) Bromoform	10.31	173	48273	4.551	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	207067	4.631	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	210201	4.687	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	194563	4.622	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	17157	4.397	ug/L	94
67) 1,3,5-Trichlorobenzene	13.24	180	156539	4.774	ug/L	98
68) 1,2,4-trichlorobenzene	13.87	180	141285	4.694	ug/L	100
69) Naphthalene	14.11	128	269813	4.427	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	127238	4.745	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.124 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

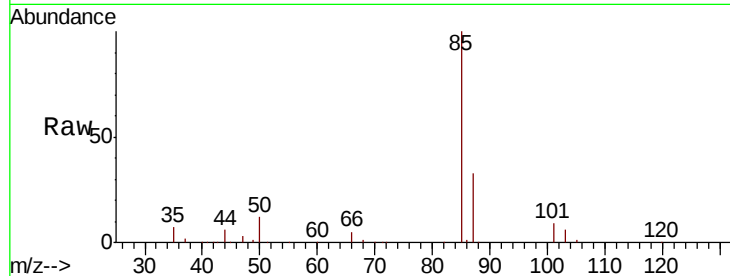
ClientSampleId :

Tot Ion: 85 Resp: 118986

Ion Ratio Lower Upper

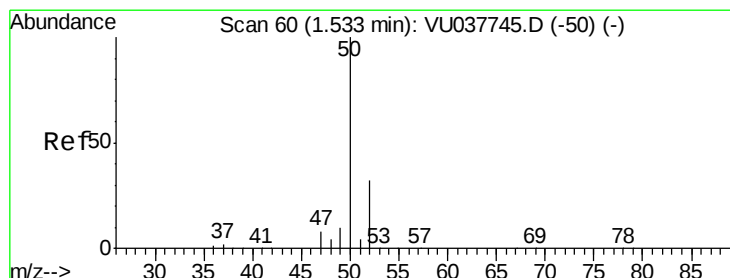
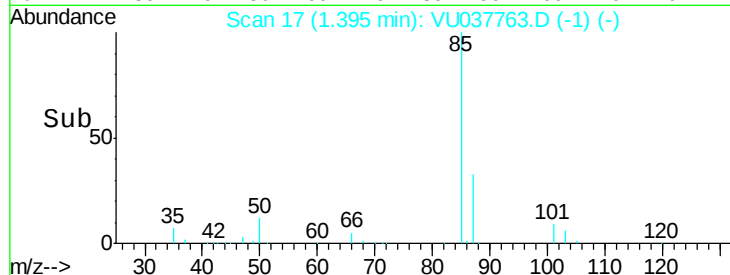
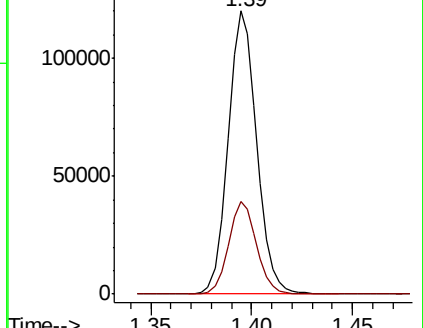
85 100

87 31.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU037763.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037763.D (-1) (-)



#3

Chloromethane

Concen: 4.604 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037763.D

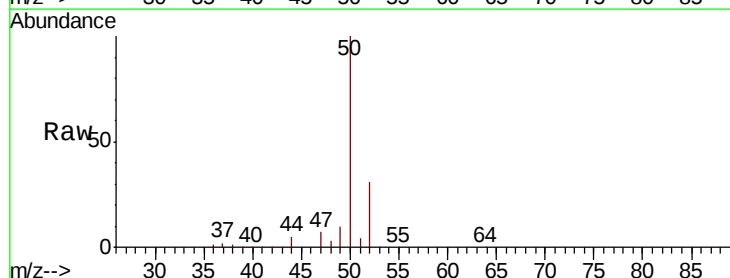
Acq: 16 Apr 2020 18:46

Tgt Ion: 50 Resp: 132178

Ion Ratio Lower Upper

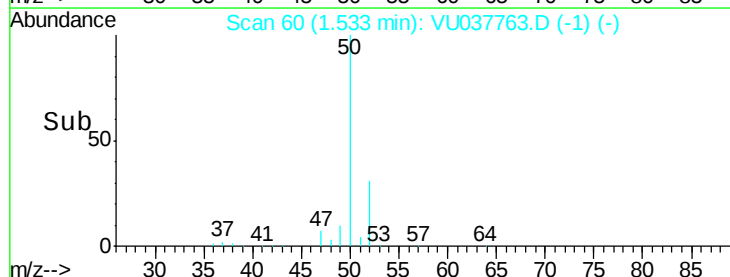
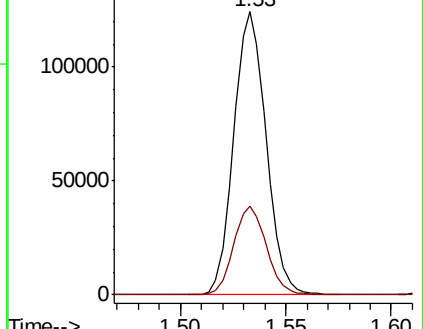
50 100

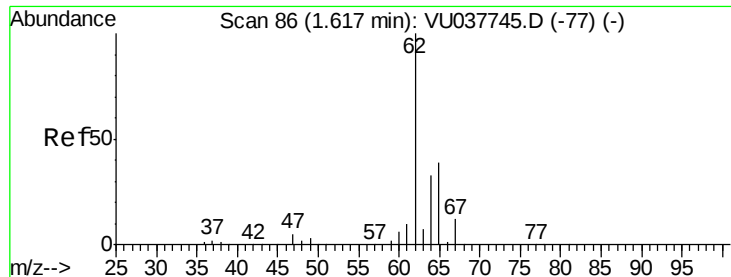
52 31.3 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU037763.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU037763.D (-1) (-)





#5

Vinyl chloride

Concen: 4.860 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

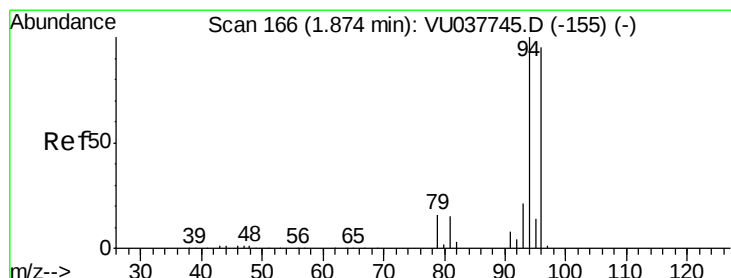
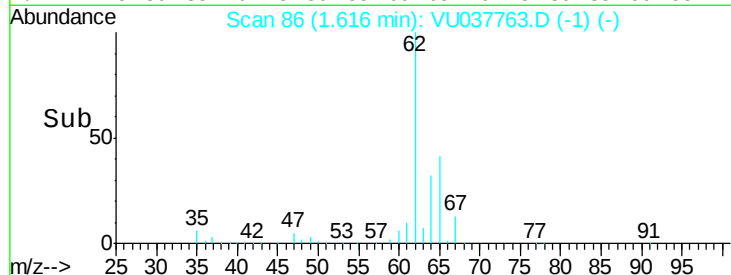
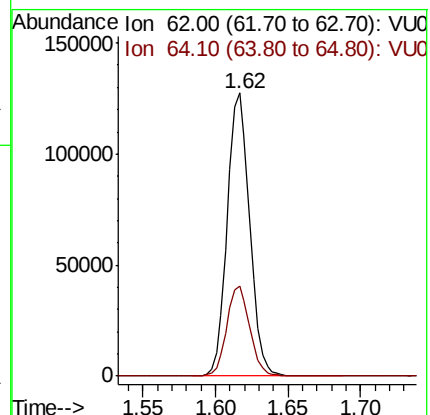
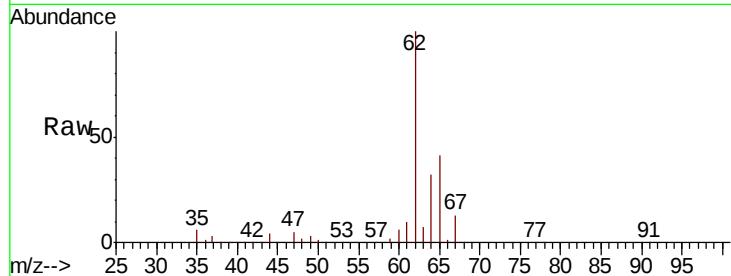
ClientSampled :

Tot Ion: 62 Resp: 137082

Ion Ratio Lower Upper

62 100

64 31.8 22.1 41.1



#6

Bromomethane

Concen: 3.500 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU037763.D

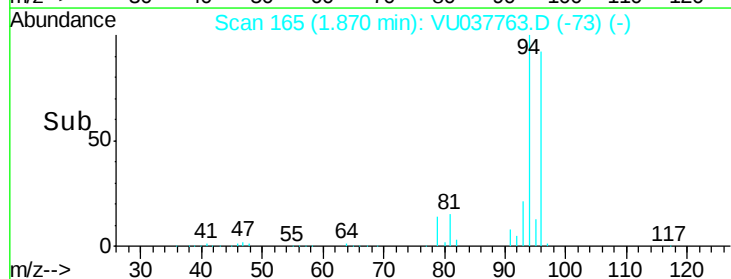
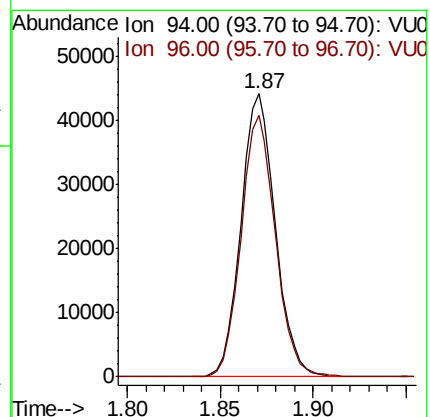
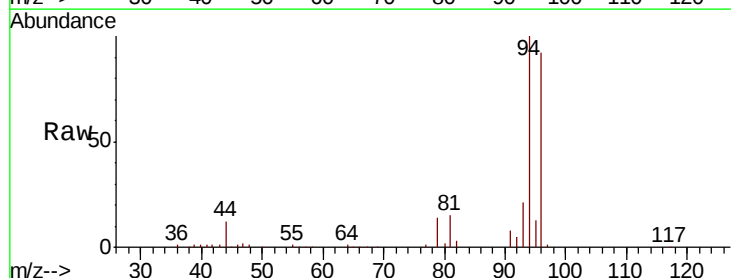
Acq: 16 Apr 2020 18:46

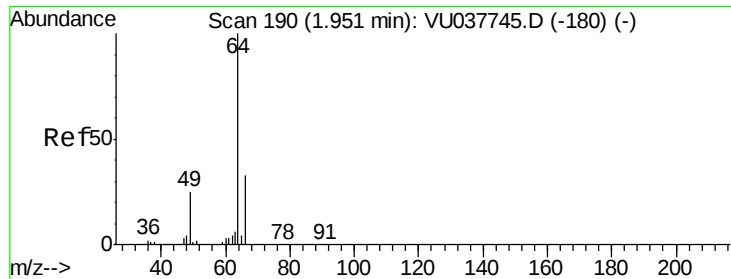
Tgt Ion: 94 Resp: 56677

Ion Ratio Lower Upper

94 100

96 92.5 64.4 119.6





#8

Chloroethane

Concen: 4.716 ug/L

RT: 1.95 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

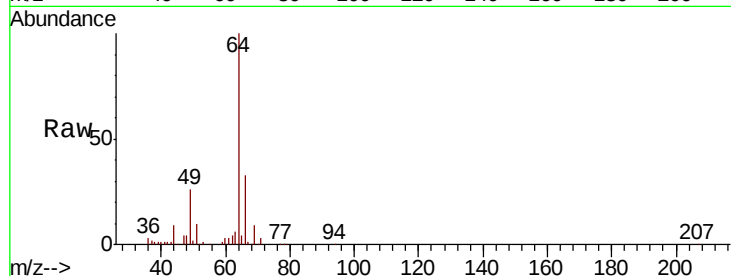
ClientSampleId :

Tot Ion: 64 Resp: 78091

Ion Ratio Lower Upper

64 100

66 32.6 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VU037763.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU037763.D (-180) (-)

1.95

60000

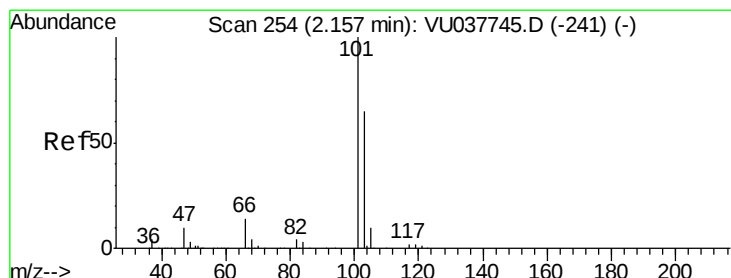
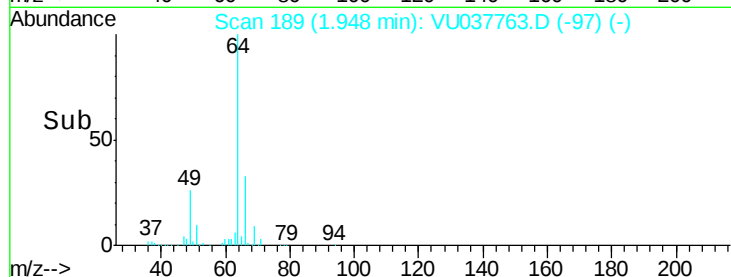
40000

20000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 4.828 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU037763.D

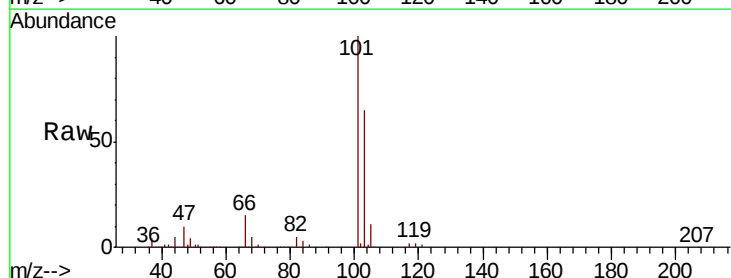
Acq: 16 Apr 2020 18:46

Tgt Ion:101 Resp: 146118

Ion Ratio Lower Upper

101 100

103 65.2 51.0 76.6



Abundance Ion 101.00 (100.70 to 101.70): VU037763.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU037763.D (-241) (-)

2.16

120000

100000

80000

60000

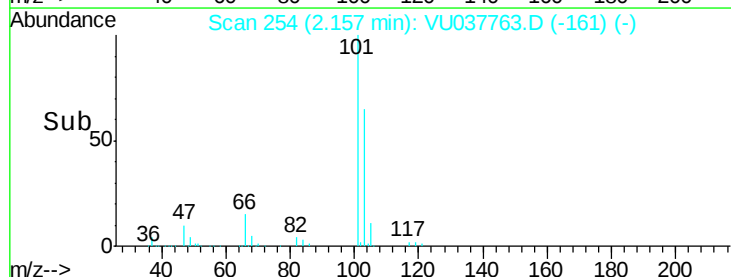
40000

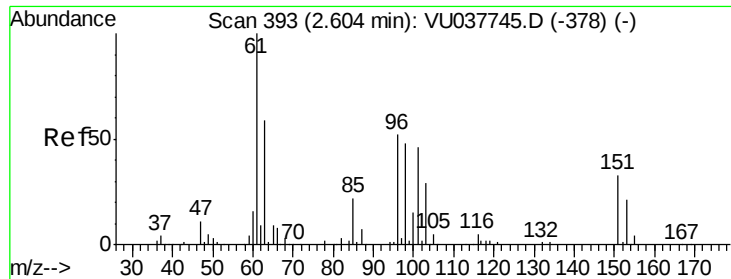
20000

0

2.10 2.15 2.20

Time-->





#10

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

Concen: 4.795 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

ClientSampled :

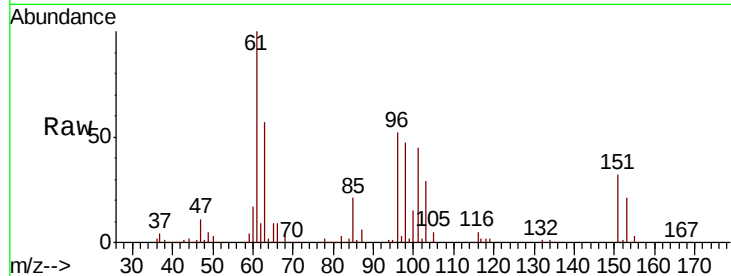
Tot Ion:101 Resp: 84496

Ion Ratio Lower Upper

101 100

85 45.7 34.5 51.7

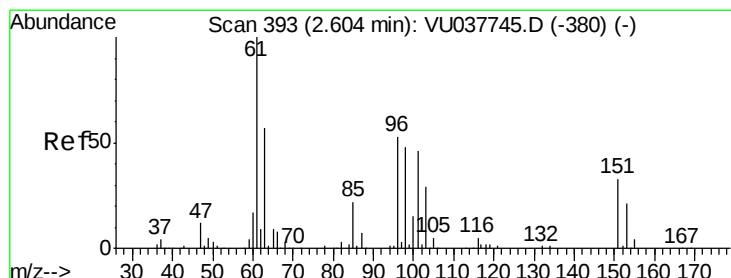
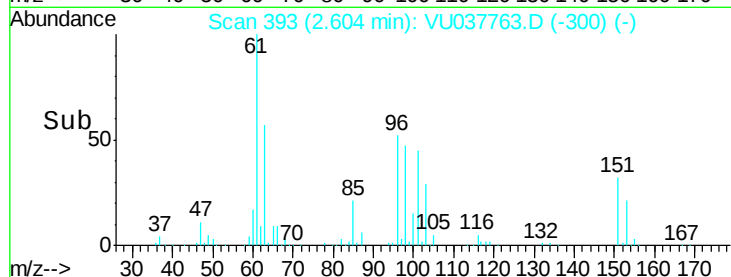
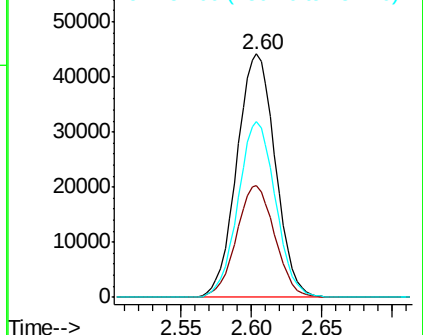
151 70.3 56.9 85.3



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: 4.491 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

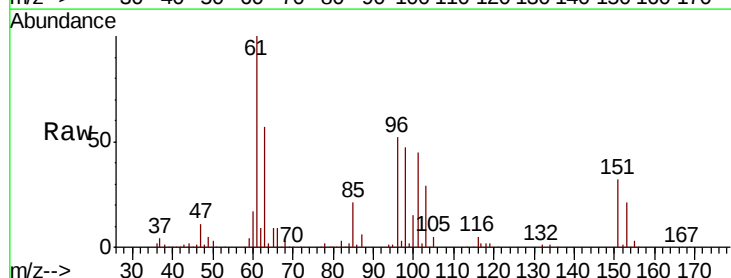
Tgt Ion: 96 Resp: 82945

Ion Ratio Lower Upper

96 100

61 193.6 127.7 237.3

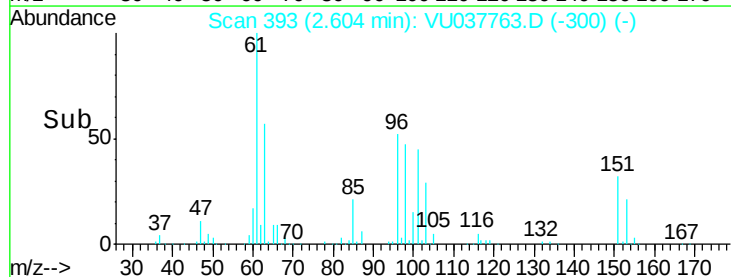
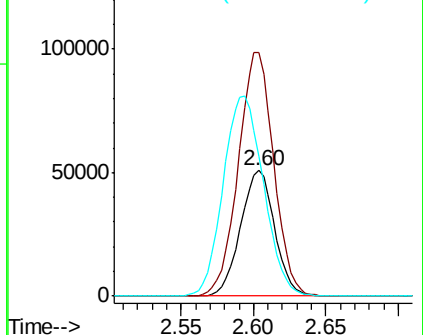
63 111.2 85.0 157.8

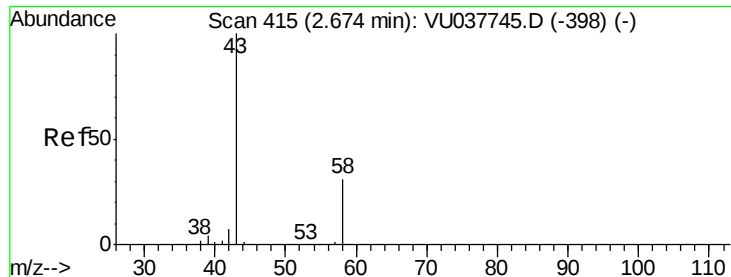


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 46.155 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.02 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

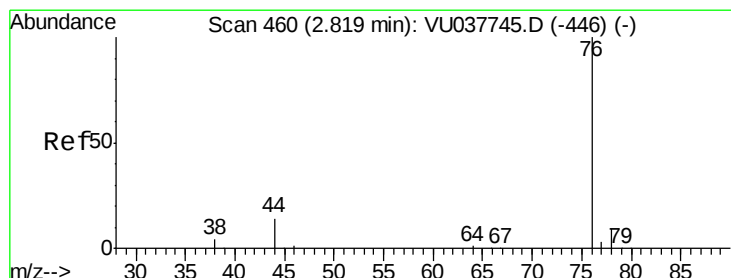
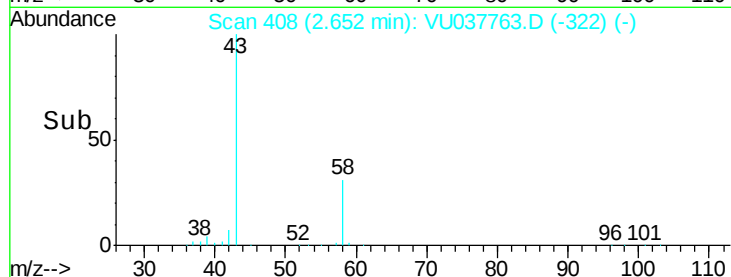
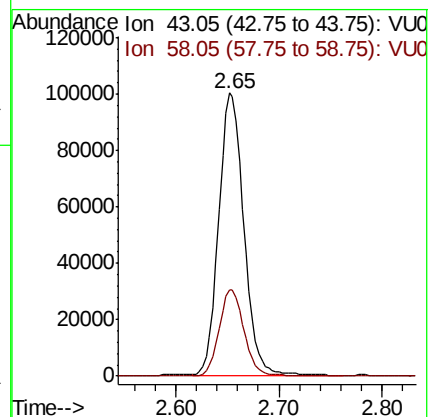
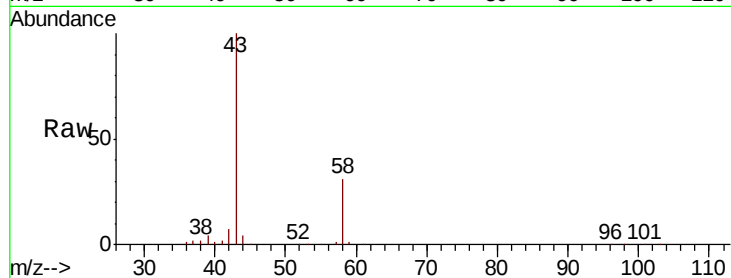
ClientSampled :

Tot Ion: 43 Resp: 169274

Ion Ratio Lower Upper

43 100

58 30.3 0.0 64.8



#14

Carbon disulfide

Concen: 4.471 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037763.D

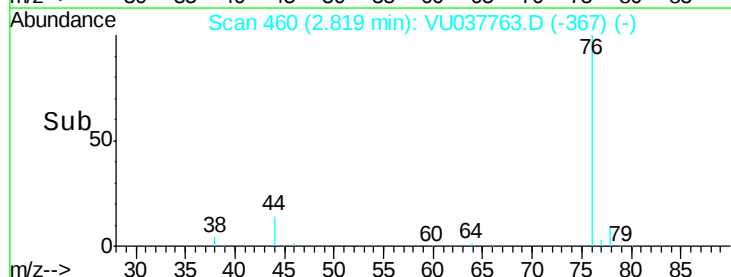
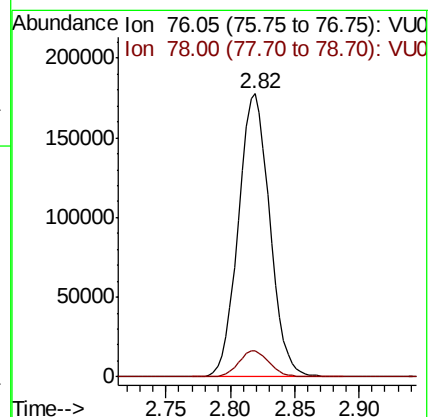
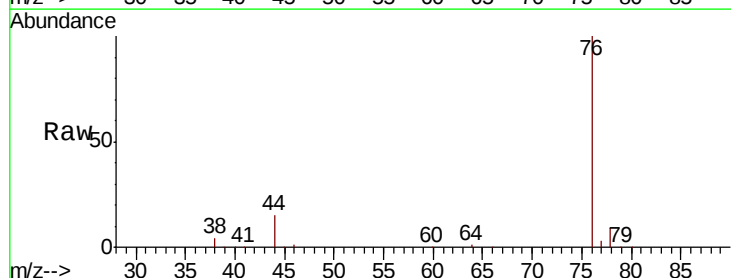
Acq: 16 Apr 2020 18:46

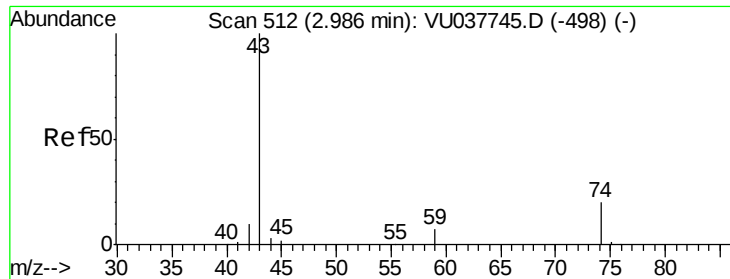
Tgt Ion: 76 Resp: 301540

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

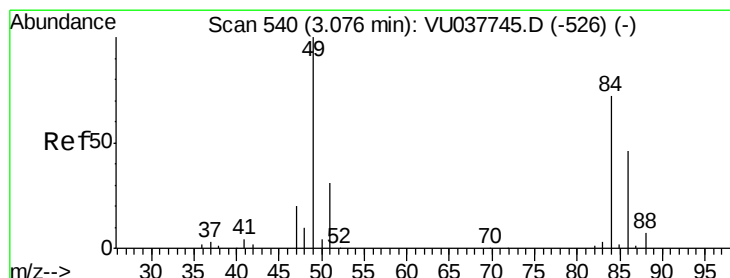
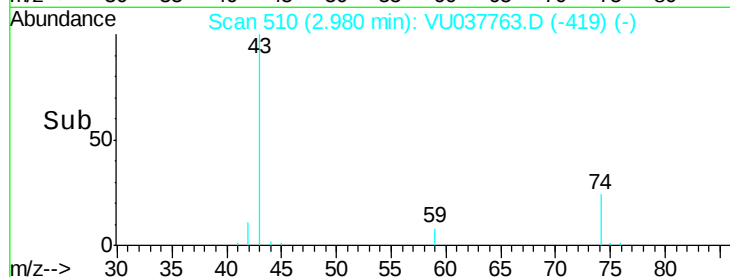
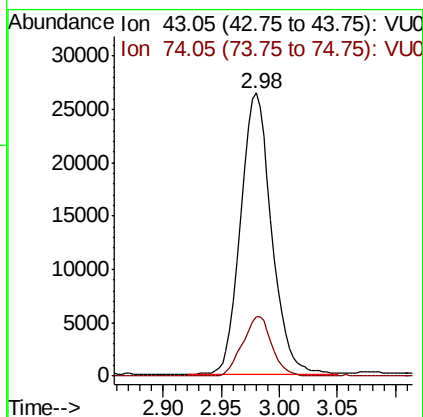
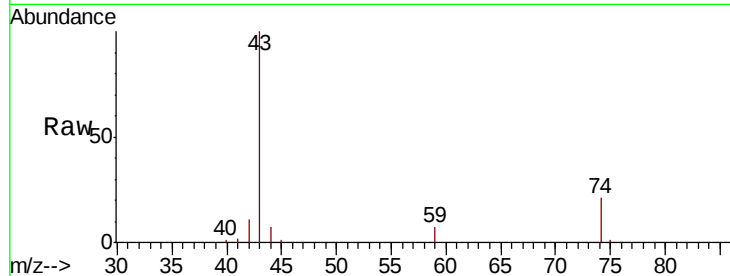




#15
Methvl Acetate
Concen: 4.817 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.01 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

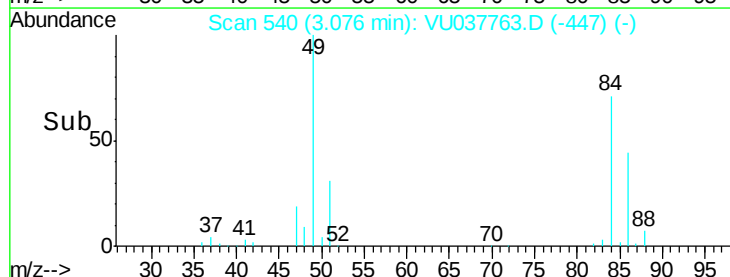
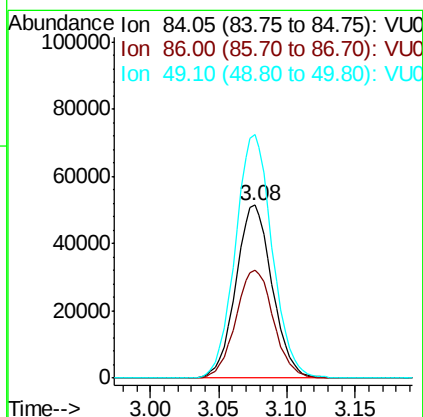
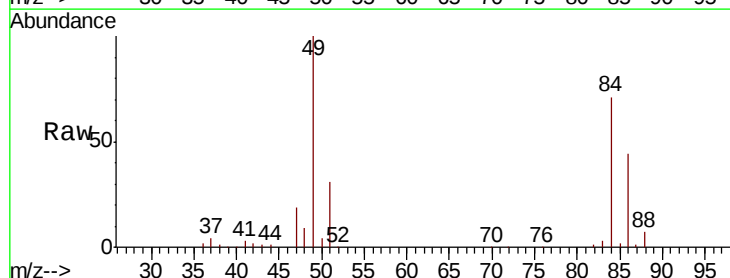
Instrument :
MSVOA_U
ClientSampled :

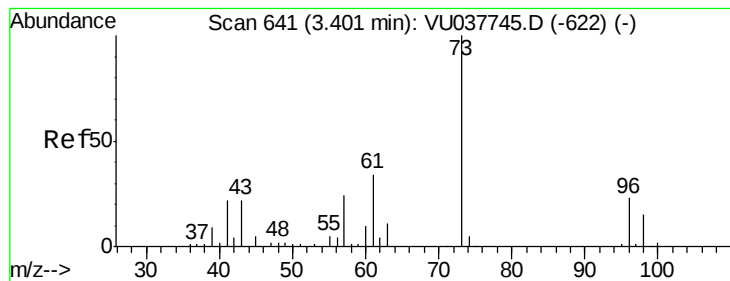
Tot Ion: 43 Resp: 49117
Ion Ratio Lower Upper
43 100
74 20.0 17.2 25.8



#16
Methylene chloride
Concen: 4.577 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

Tgt Ion: 84 Resp: 95319
Ion Ratio Lower Upper
84 100
86 62.2 44.2 82.0
49 140.7 92.4 171.6



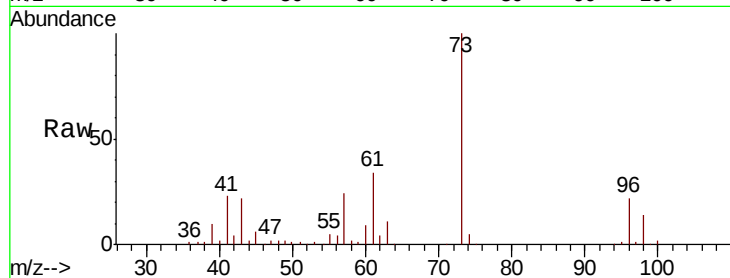


#17

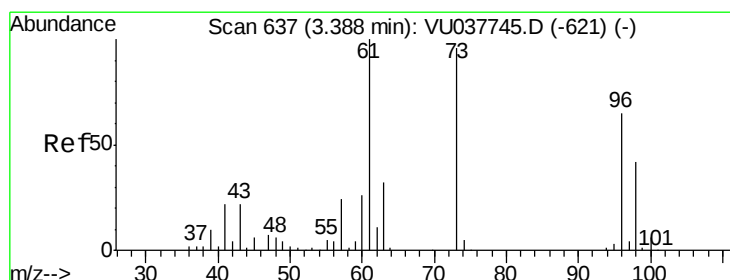
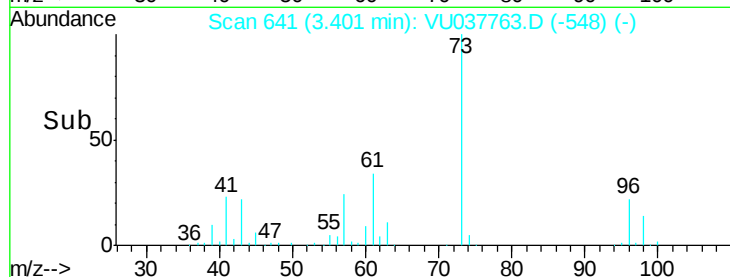
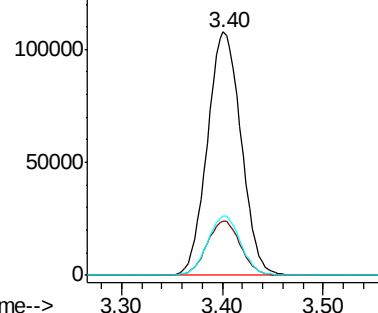
Methvl tert-butvl Ether
 Concen: 4.676 ug/L
 RT: 3.40 min Scan# 641
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 73 Resp: 250089
 Ion Ratio Lower Upper
 73 100
 43 22.0 16.4 24.6
 57 24.0 18.4 27.6



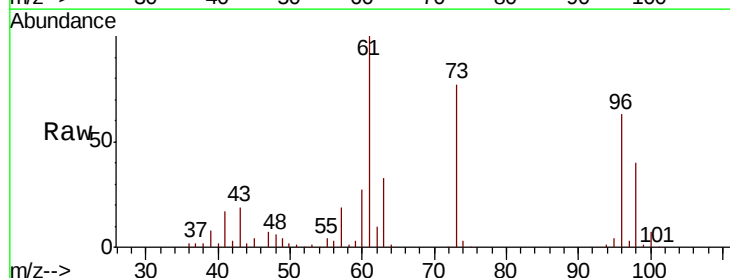
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



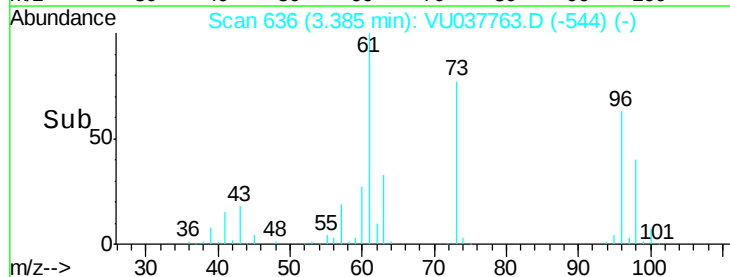
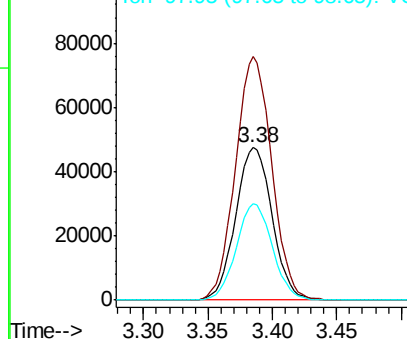
#18

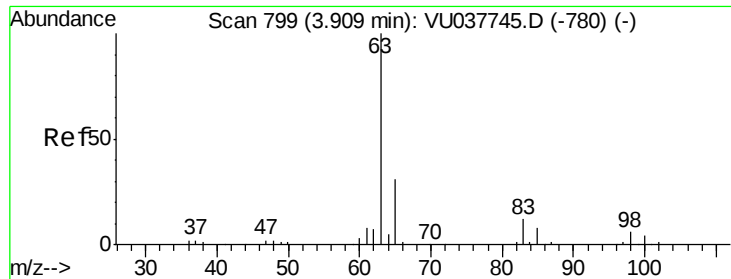
trans-1,2-Dichloroethene
 Concen: 4.667 ug/L
 RT: 3.38 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion: 96 Resp: 93465
 Ion Ratio Lower Upper
 96 100
 61 159.8 106.7 198.3
 98 63.6 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

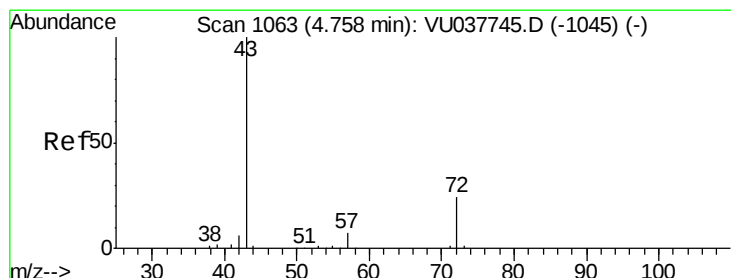
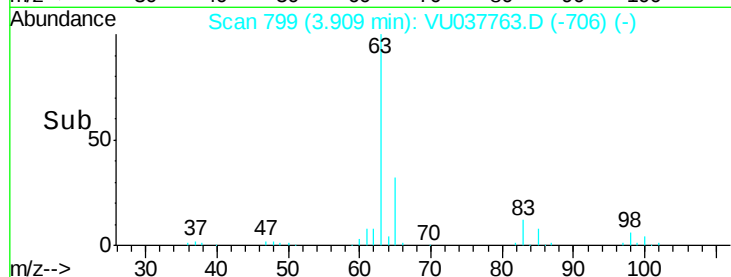
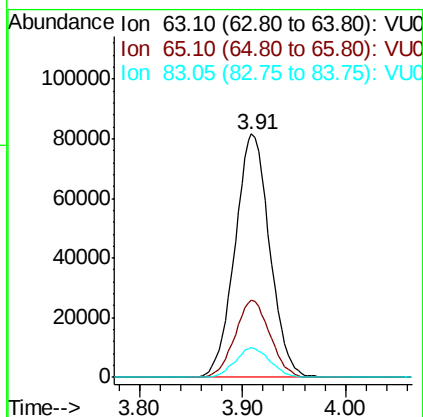
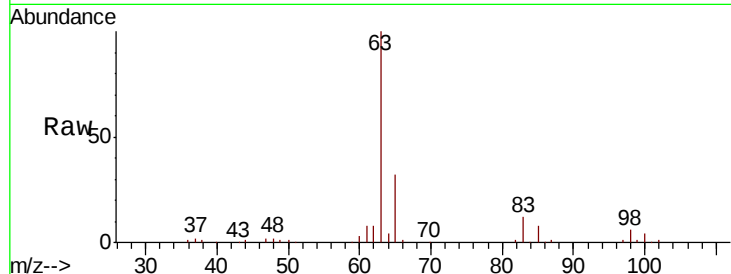




#19
 1,1-Dichloroethane
 Concen: 4.936 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

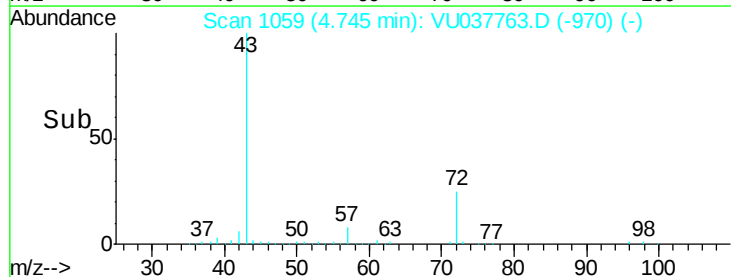
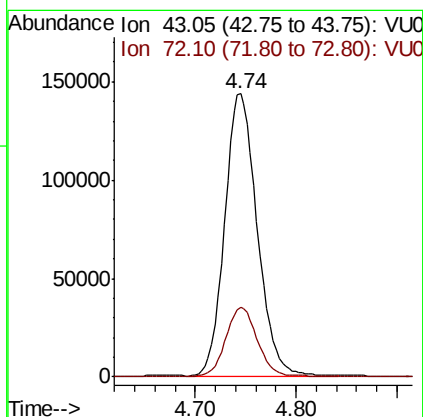
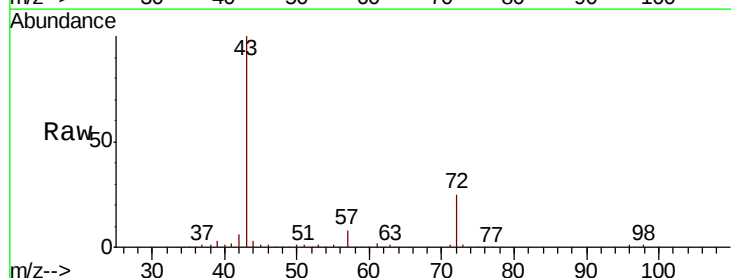
Instrument :
 MSVOA_U
 ClientSampled :

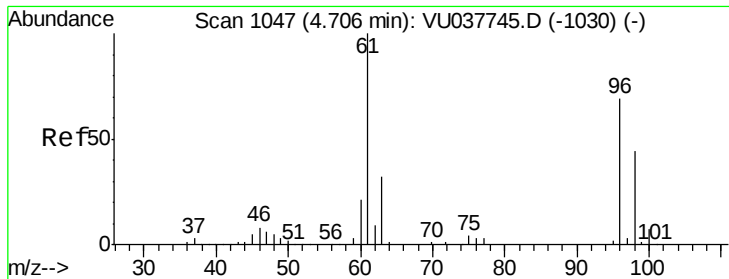
Tot Ion: 63 Resp: 191177
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.6 40.2
 83 12.1 8.6 16.0



#21
 2-Butanone
 Concen: 48.164 ug/L
 RT: 4.74 min Scan# 1059
 Delta R.T. -0.01 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion: 43 Resp: 320940
 Ion Ratio Lower Upper
 43 100
 72 24.5 12.6 37.6





#22

cis-1,2-Dichloroethene

Concen: 4.751 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :
MSVOA_U
ClientSampleId :

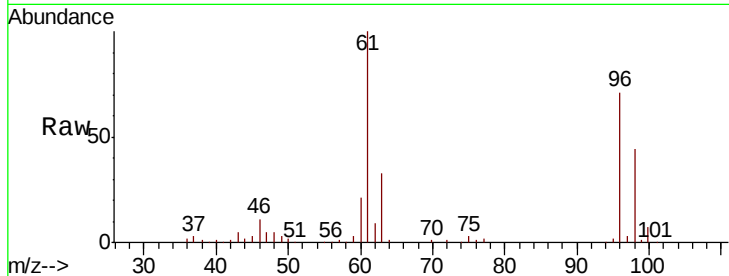
Tot Ion: 96 Resp: 102788

Ion Ratio Lower Upper

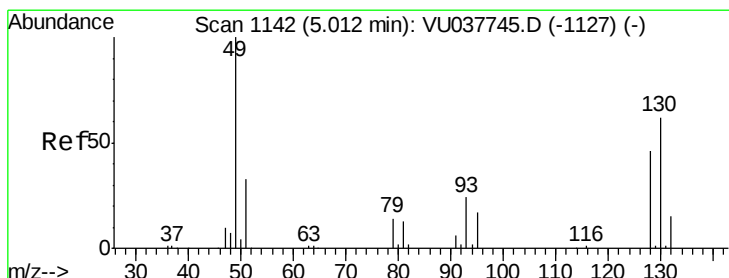
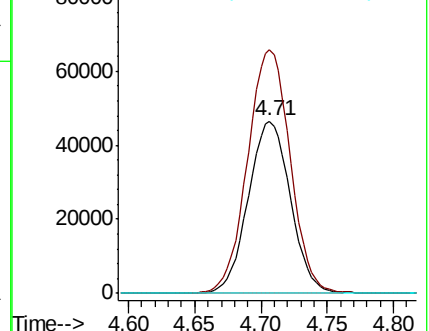
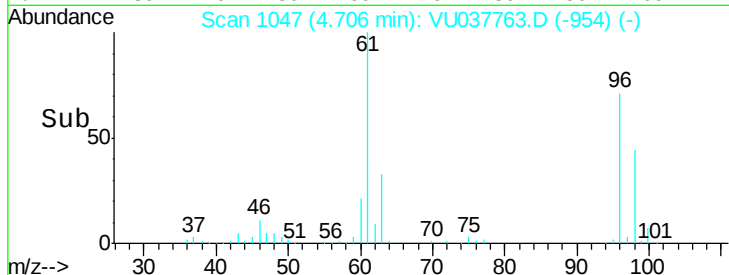
96 100

61 141.2 97.0 180.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037763.D (-954) (-)



#23

Bromochloromethane

Concen: 4.685 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Tgt Ion: 128 Resp: 42962

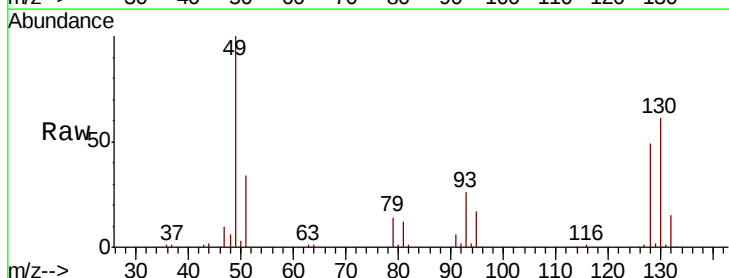
Ion Ratio Lower Upper

128 100

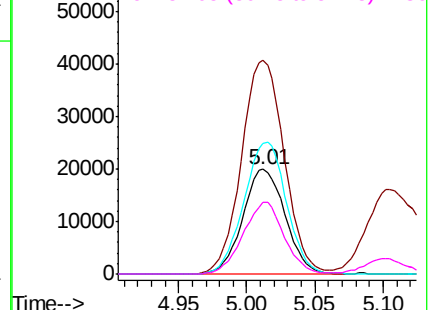
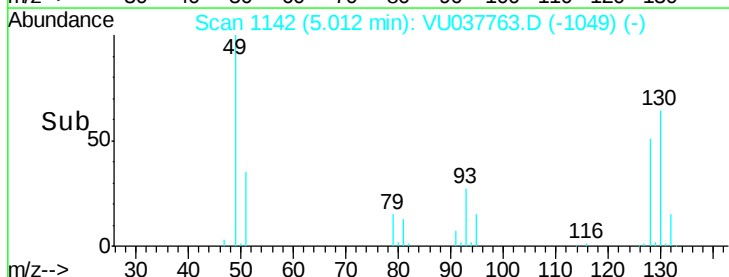
49 203.8 138.6 257.4

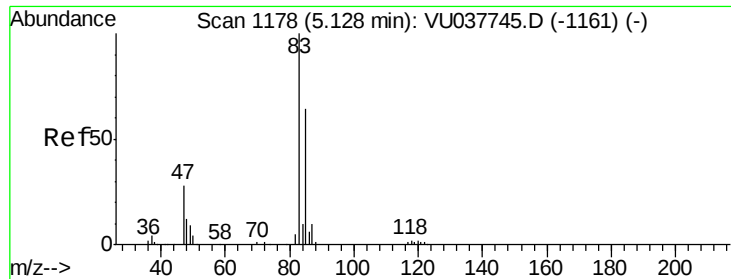
130 124.9 91.3 169.5

51 68.6 49.3 73.9



Abundance Ion 127.90 (127.60 to 128.60): VU037763.D (-1049) (-)





#25

Chloroform

Concen: 5.023 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

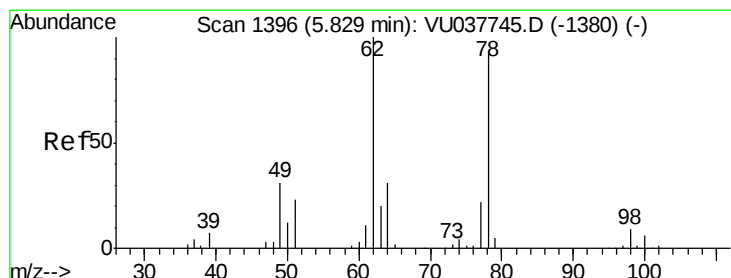
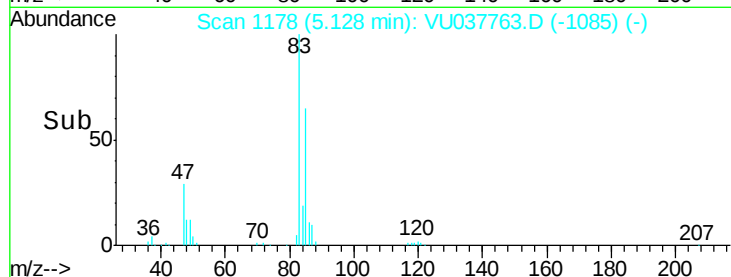
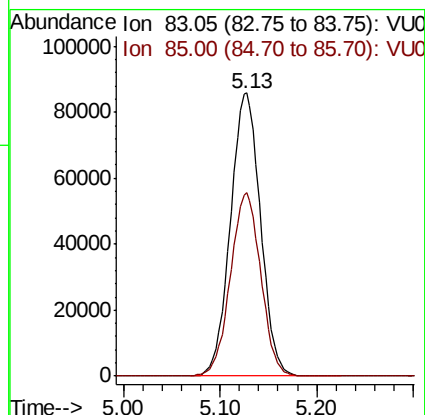
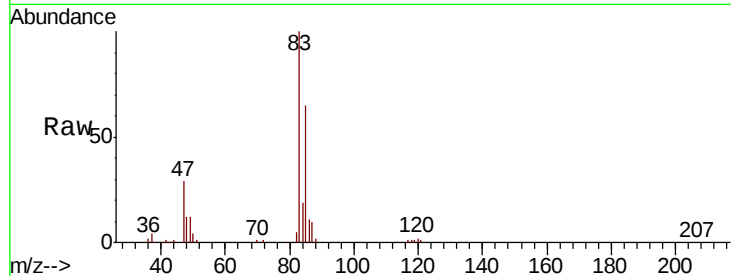
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 184832

Ion Ratio Lower Upper

83 100

85 64.9 44.9 83.3



#27

1,2-Dichloroethane

Concen: 5.128 ug/L

RT: 5.83 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU037763.D

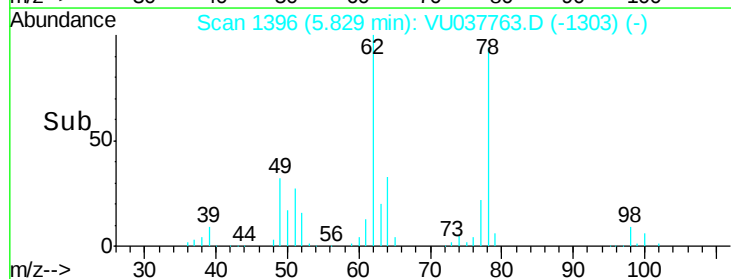
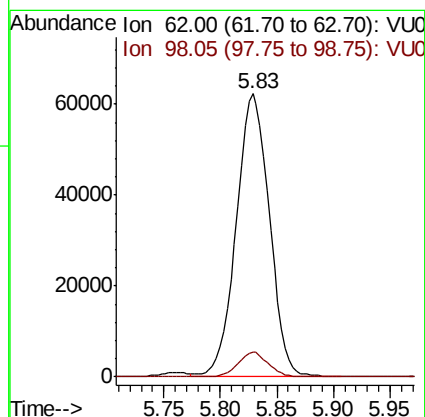
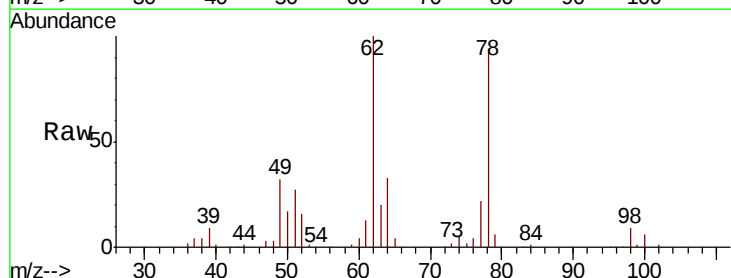
Acq: 16 Apr 2020 18:46

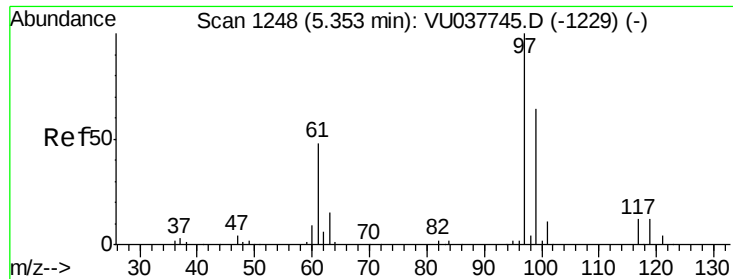
Tgt Ion: 62 Resp: 127528

Ion Ratio Lower Upper

62 100

98 9.0 7.6 11.4

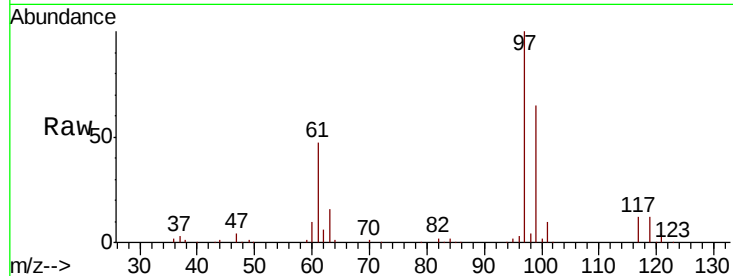




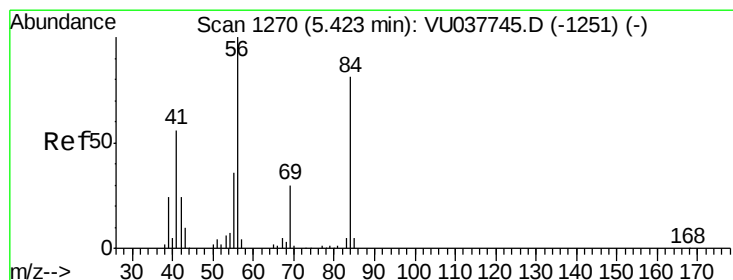
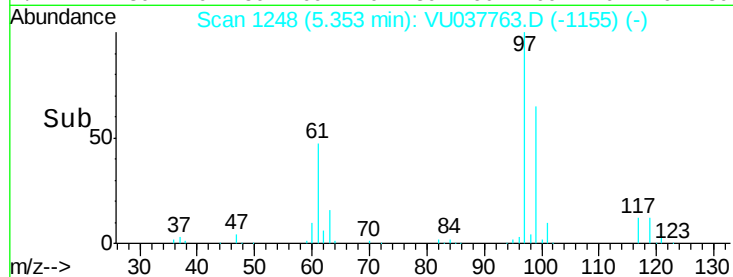
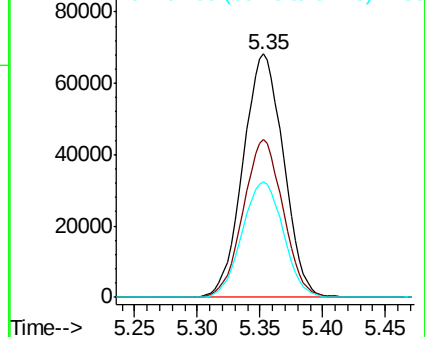
#29
 1,1,1-Trichloroethane
 Concen: 4.917 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 153144
 Ion Ratio Lower Upper
 97 100
 99 64.0 52.0 78.0
 61 48.3 37.8 56.8

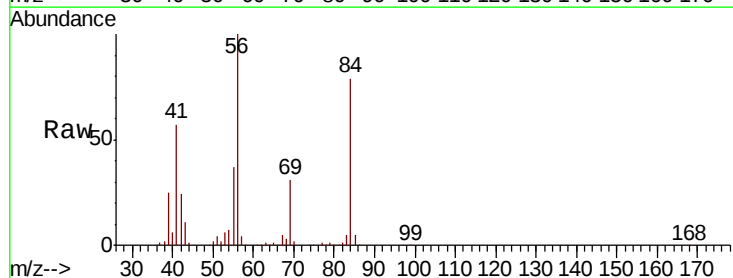


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

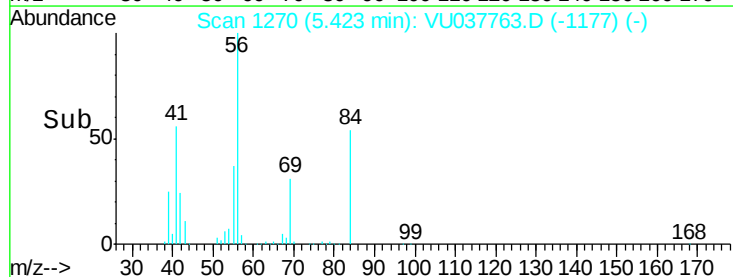
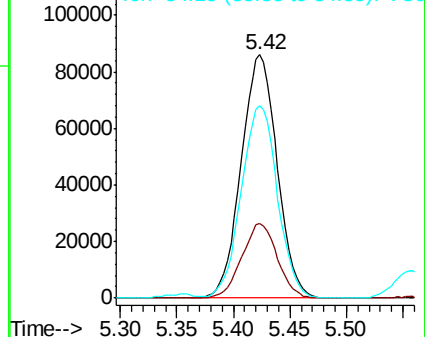


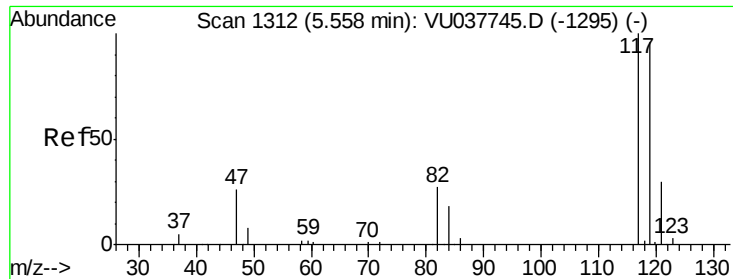
#30
 Cyclohexane
 Concen: 4.938 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion: 56 Resp: 190380
 Ion Ratio Lower Upper
 56 100
 69 30.2 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: 4.938 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

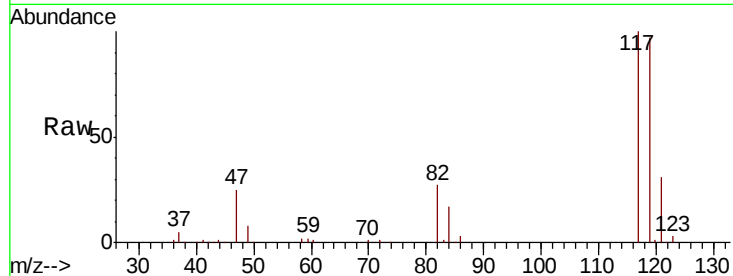
ClientSampleId :

Tot Ion:117 Resp: 122563

Ion Ratio Lower Upper

117 100

119 97.2 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

60000

50000

40000

30000

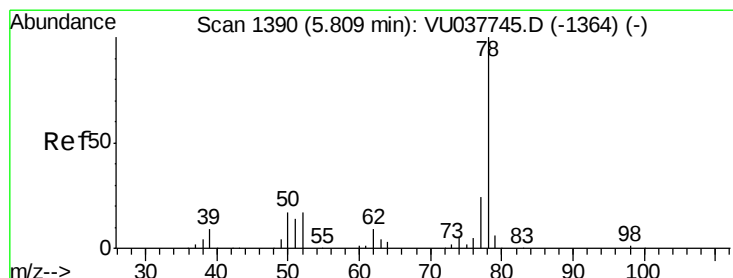
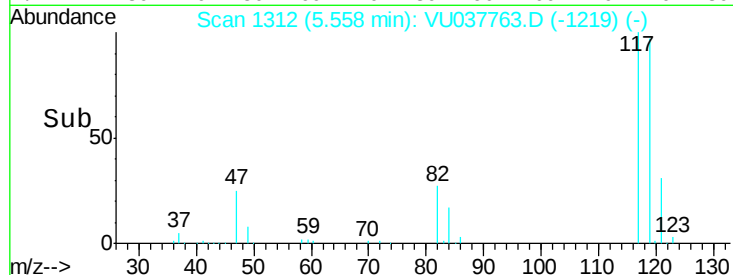
20000

10000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 4.791 ug/L

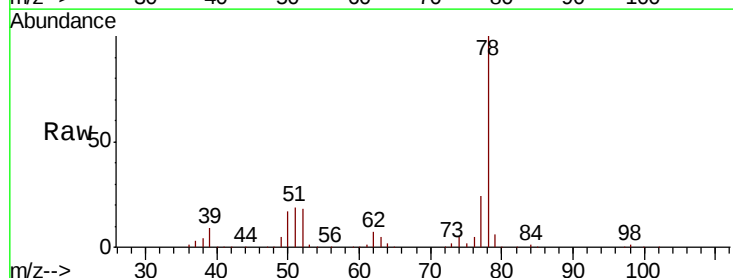
RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Tgt Ion: 78 Resp: 406325



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.81

200000

150000

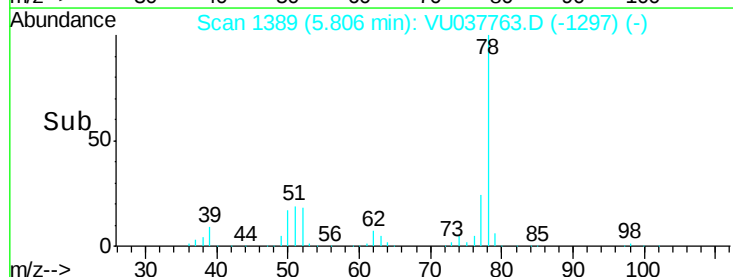
100000

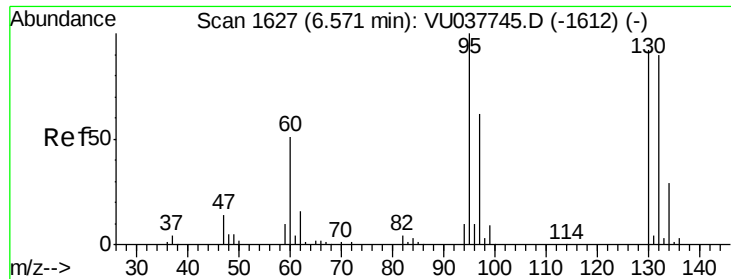
50000

0

Time-->

5.70 5.80 5.90

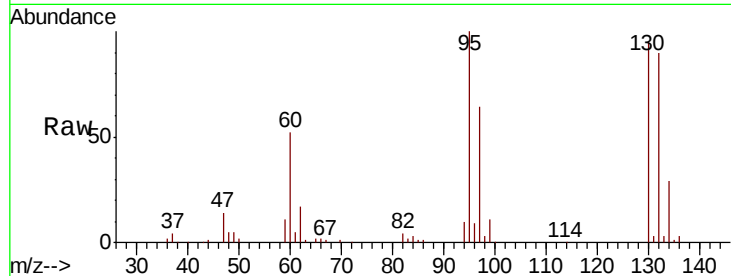




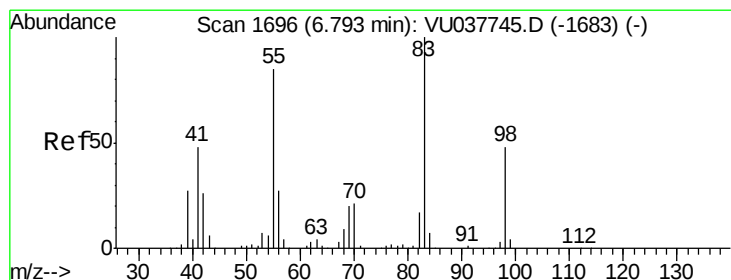
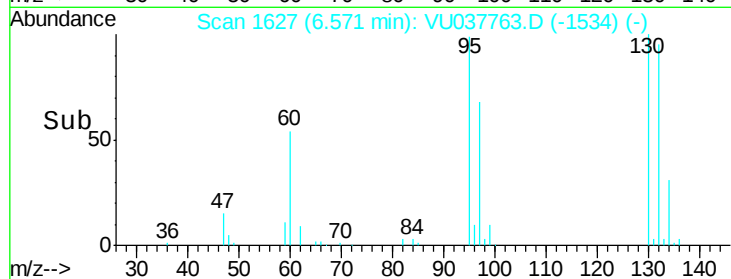
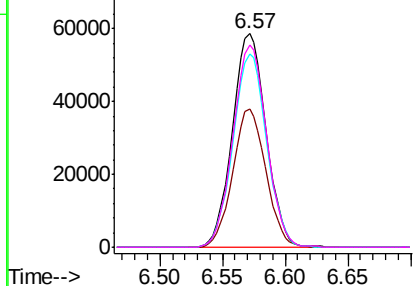
#34
 Trichloroethene
 Concen: 5.245 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 109327
 Ion Ratio Lower Upper
 95 100
 97 64.5 45.4 84.2
 132 90.3 63.7 118.3
 130 94.8 68.7 127.5

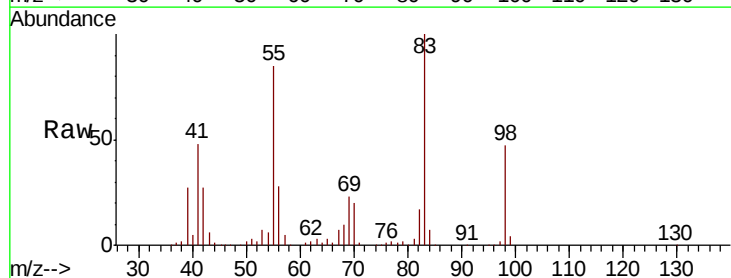


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

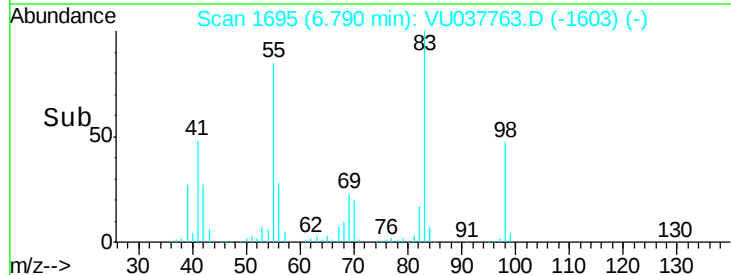
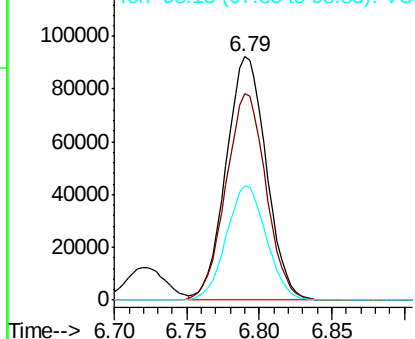


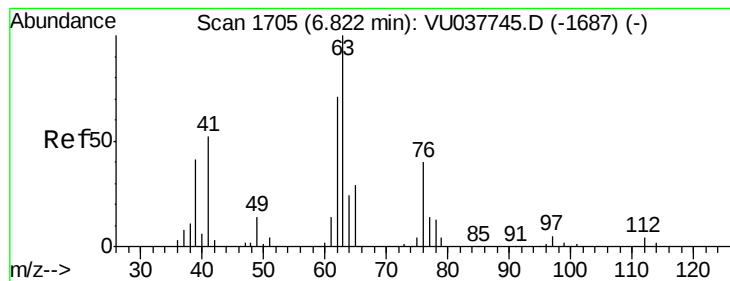
#35
 Methylcyclohexane
 Concen: 4.868 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion: 83 Resp: 177837
 Ion Ratio Lower Upper
 83 100
 55 84.6 65.5 98.3
 98 46.7 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: 4.913 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

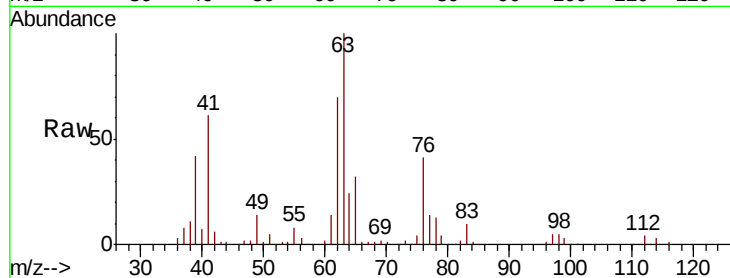
ClientSampleId :

Tot Ion: 63 Resp: 110521

Ion Ratio Lower Upper

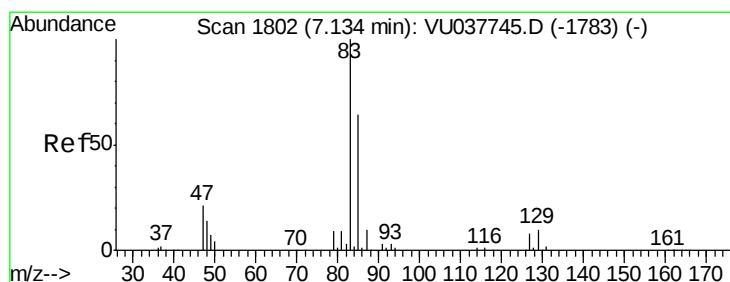
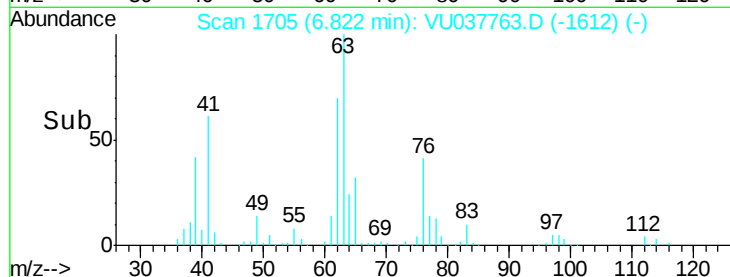
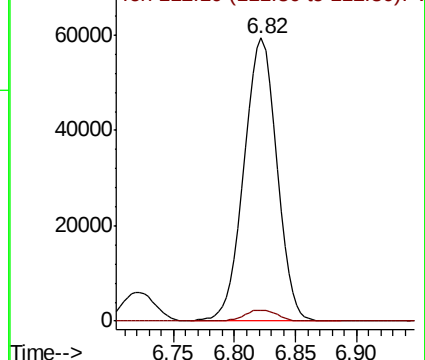
63 100

112 3.9 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VU037763.D (-1612) (-)

Ion 112.10 (111.80 to 112.80): VU037763.D (-1612) (-)



#38

Bromodichloromethane

Concen: 4.922 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

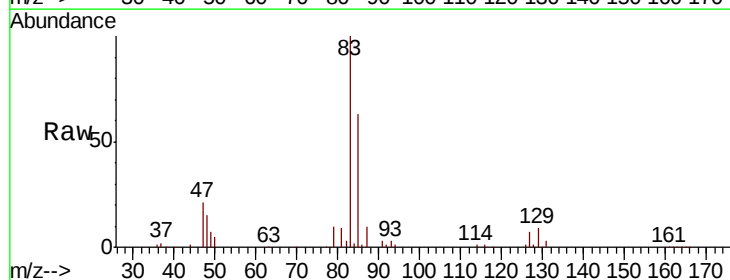
Tgt Ion: 83 Resp: 131662

Ion Ratio Lower Upper

83 100

85 62.8 45.1 83.7

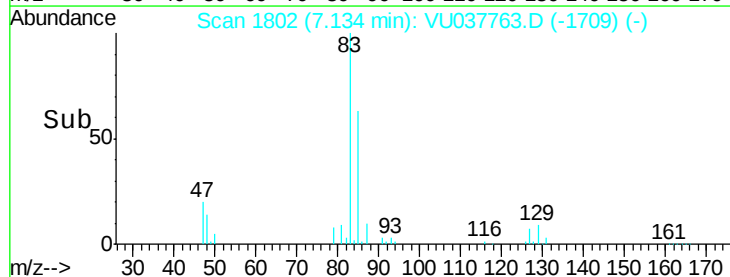
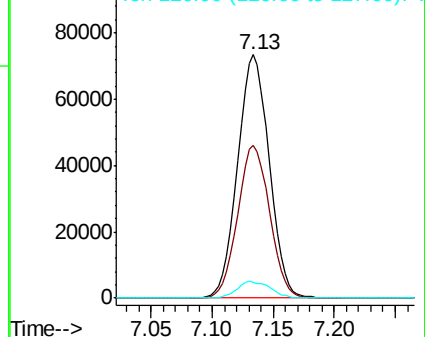
127 6.6 6.6 9.8

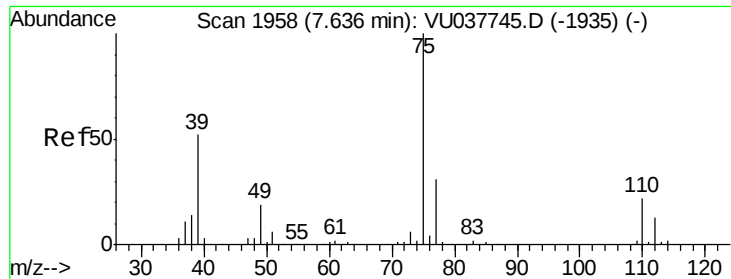


Abundance Ion 82.95 (82.65 to 83.65): VU037763.D (-1709) (-)

Ion 85.00 (84.70 to 85.70): VU037763.D (-1709) (-)

Ion 126.90 (126.60 to 127.60): VU037763.D (-1709) (-)

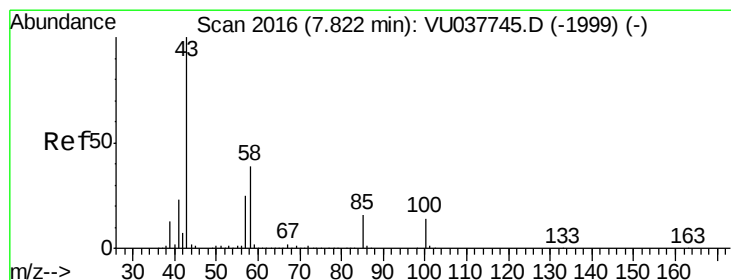
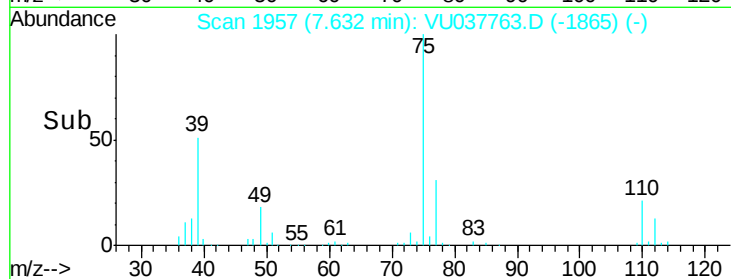
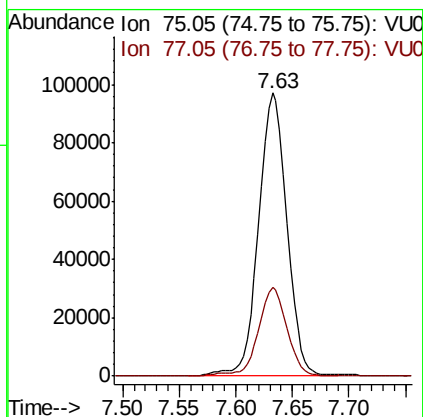
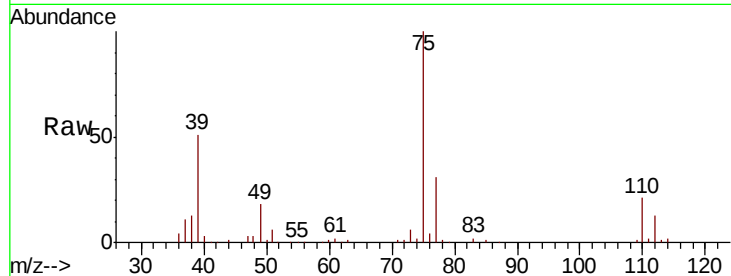




#39
 cis-1,3-Dichloropropene
 Concen: 4.808 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

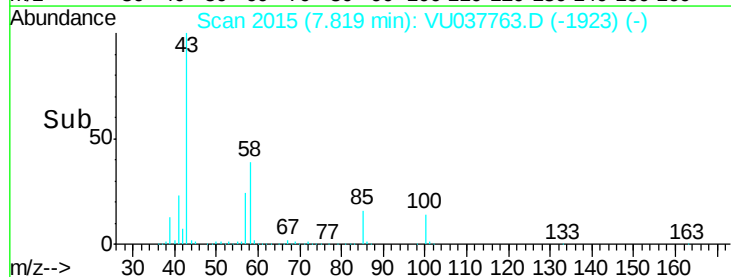
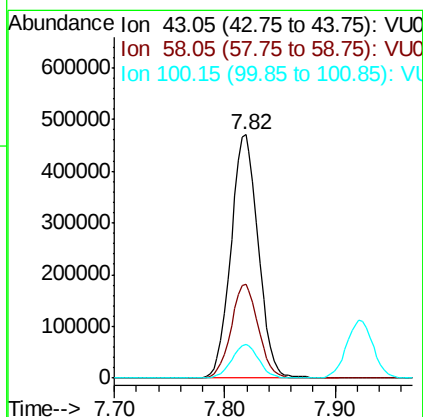
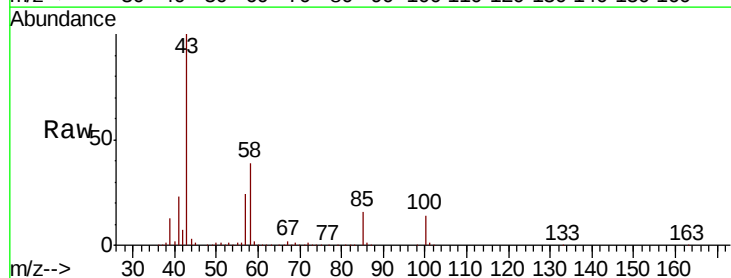
Instrument :
 MSVOA_U
 ClientSampled :

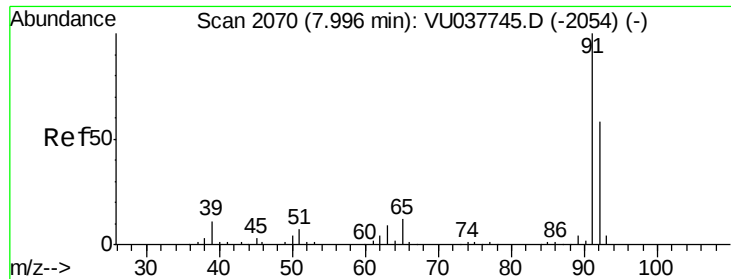
Tot Ion: 75 Resp: 169285
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 48.835 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion: 43 Resp: 807624
 Ion Ratio Lower Upper
 43 100
 58 38.3 31.3 46.9
 100 13.6 11.5 17.3





#42

Toluene

Concen: 4.880 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

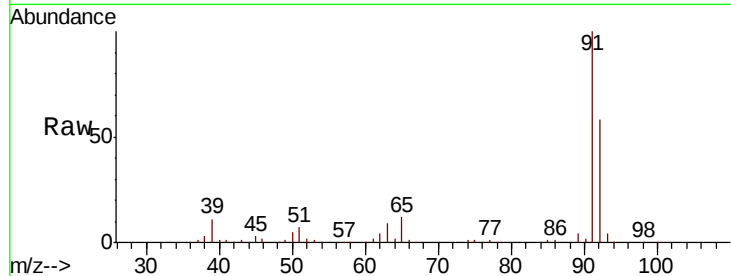
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 433598

Ion Ratio Lower Upper

91 100

92 58.4 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) (-)

7.99

250000

200000

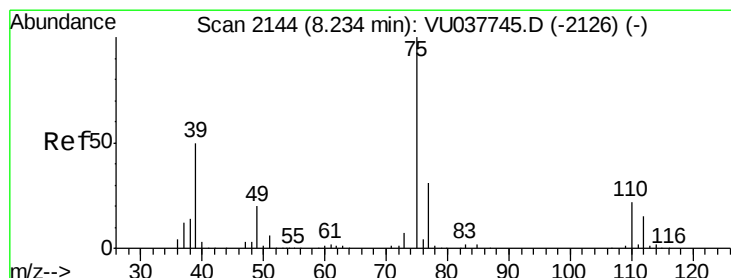
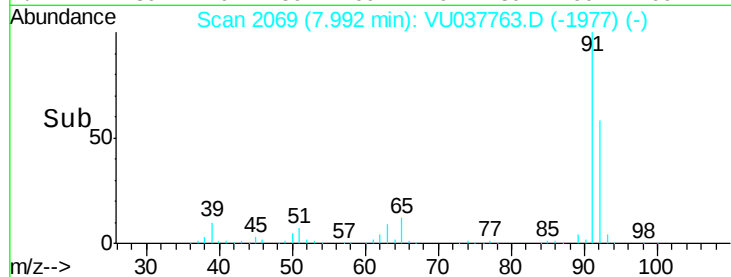
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.741 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037763.D

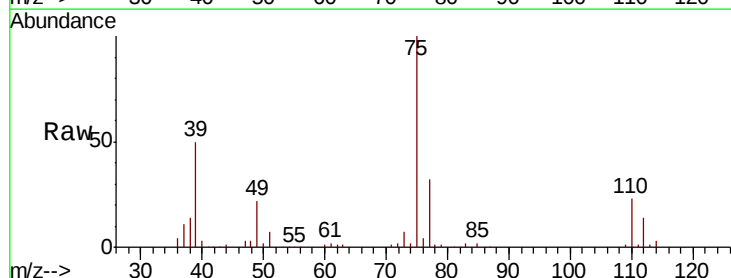
Acq: 16 Apr 2020 18:46

Tgt Ion: 75 Resp: 144916

Ion Ratio Lower Upper

75 100

77 32.4 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) (-)

8.23

100000

80000

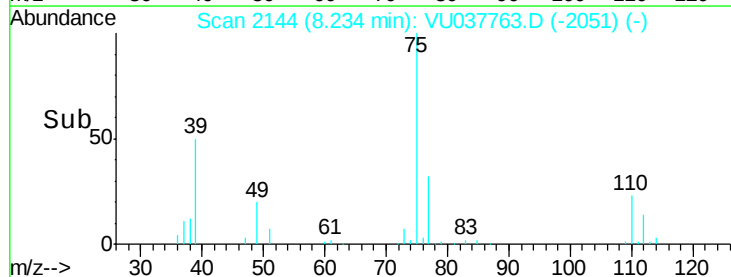
60000

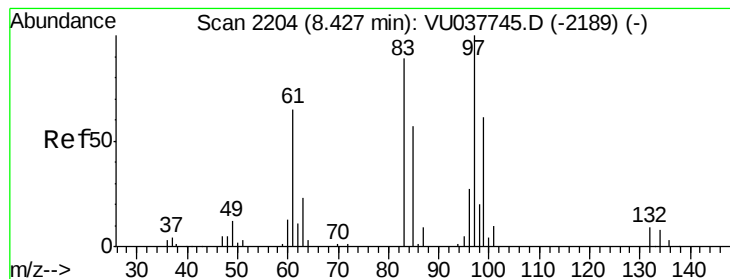
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.763 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 72202

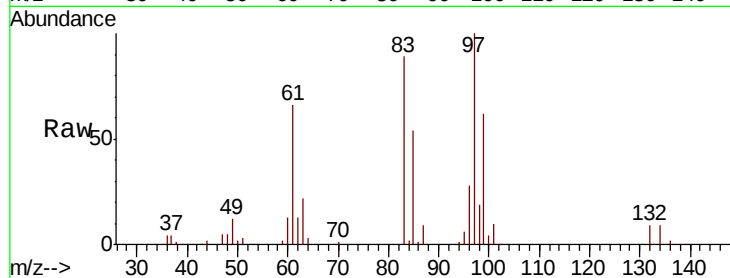
Ion Ratio Lower Upper

97 100

99 61.7 43.1 80.1

83 88.5 62.4 116.0

85 53.5 39.6 73.6

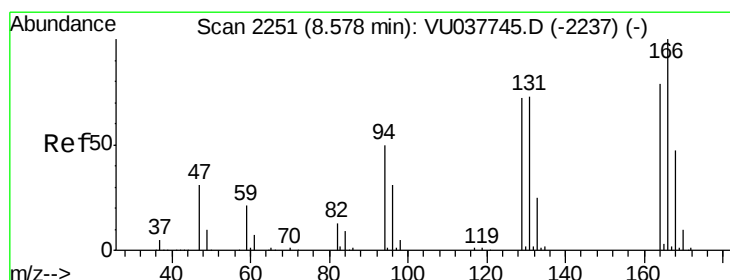
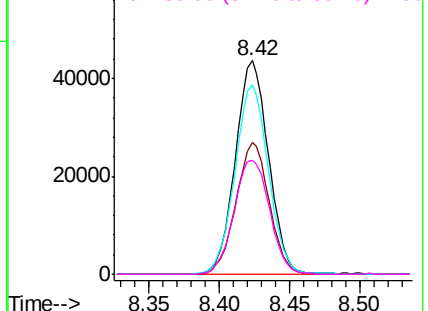
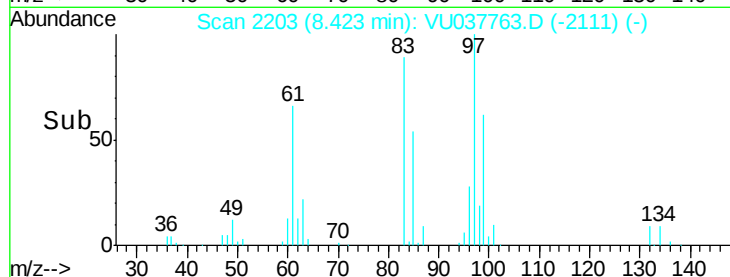


Abundance Ion 96.95 (96.65 to 97.65): VU037763.D (-2111) (-)

Ion 99.05 (98.75 to 99.75): VU037763.D (-2111) (-)

Ion 82.95 (82.65 to 83.65): VU037763.D (-2111) (-)

Ion 85.00 (84.70 to 85.70): VU037763.D (-2111) (-)



#47

Tetrachloroethene

Concen: 4.803 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Tgt Ion: 164 Resp: 71948

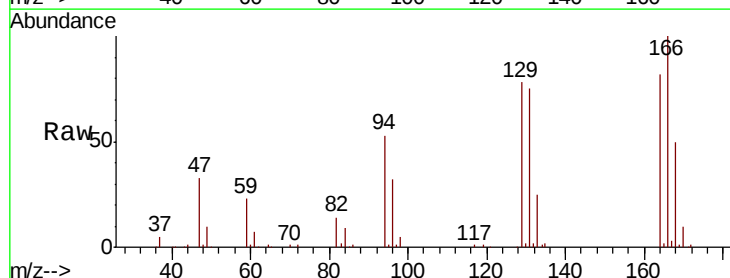
Ion Ratio Lower Upper

164 100

129 95.8 68.1 126.5

131 91.9 65.9 122.5

166 122.5 89.7 166.7

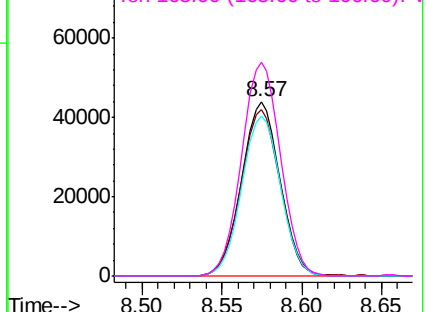
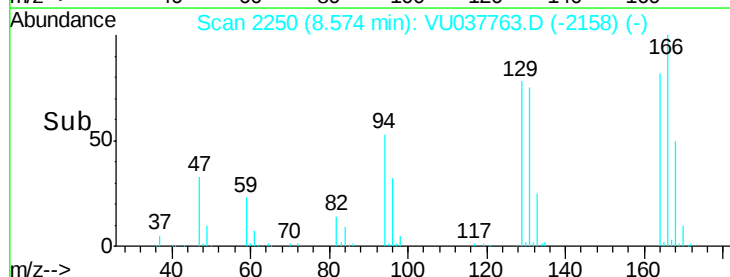


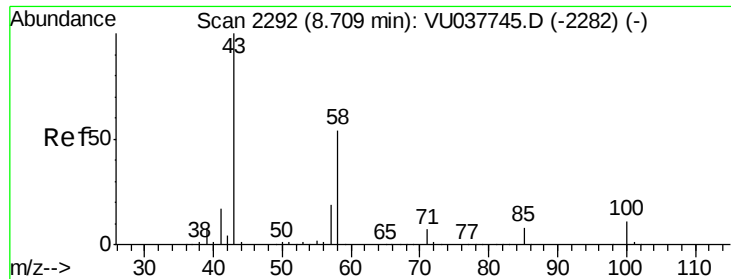
Abundance Ion 163.90 (163.60 to 164.60): VU037763.D (-2158) (-)

Ion 128.95 (128.65 to 129.65): VU037763.D (-2158) (-)

Ion 130.95 (130.65 to 131.65): VU037763.D (-2158) (-)

Ion 165.90 (165.60 to 166.60): VU037763.D (-2158) (-)

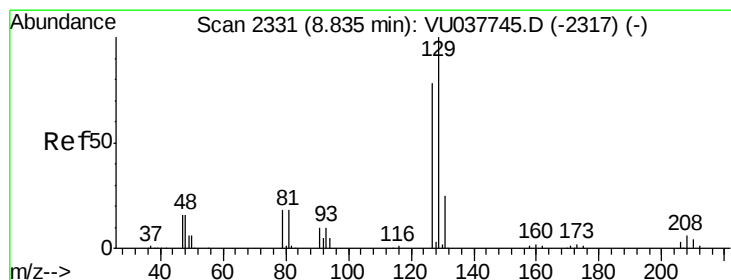
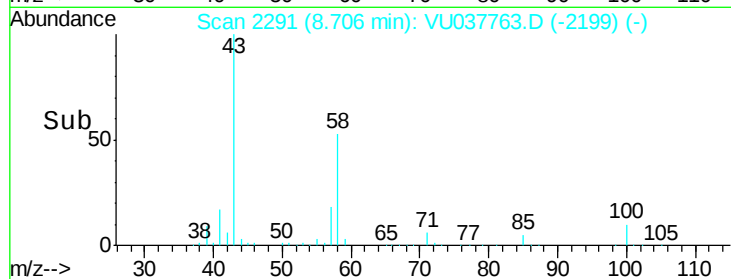
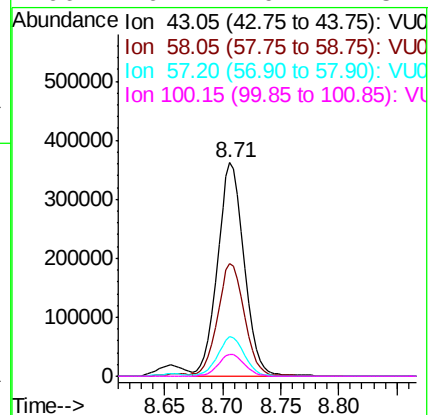
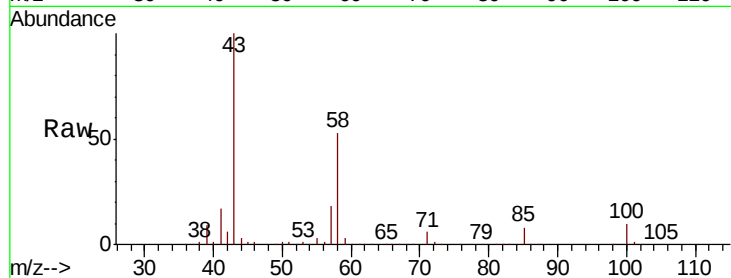




#48
2-Hexanone
Concen: 48.917 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

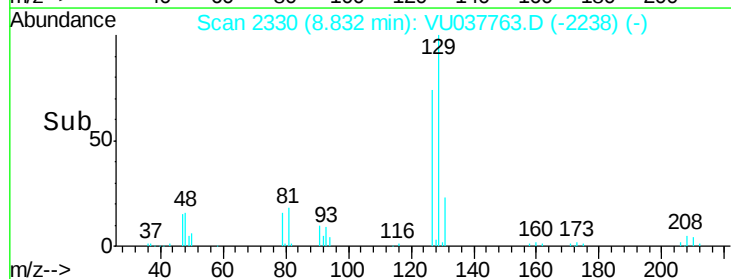
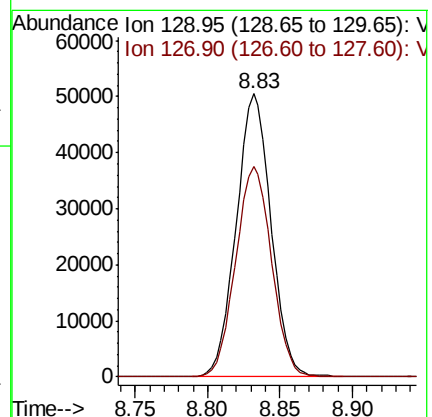
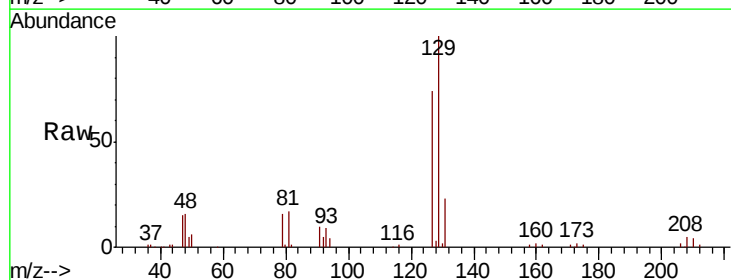
Instrument :
MSVOA_U
ClientSampleId :

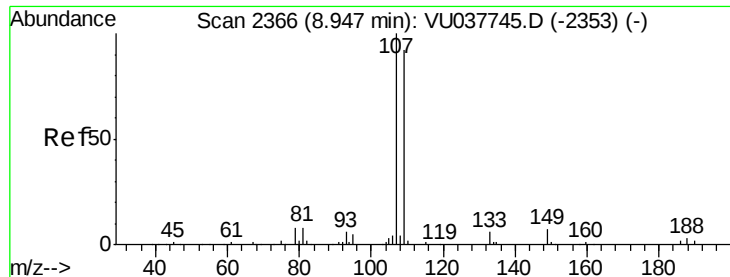
Tot Ion: 43 Resp: 579205
Ion Ratio Lower Upper
43 100
58 53.2 43.6 65.4
57 18.7 15.4 23.0
100 10.4 9.1 13.7



#49
Dibromochloromethane
Concen: 4.859 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

Tgt Ion: 129 Resp: 84169
Ion Ratio Lower Upper
129 100
127 74.1 53.3 98.9

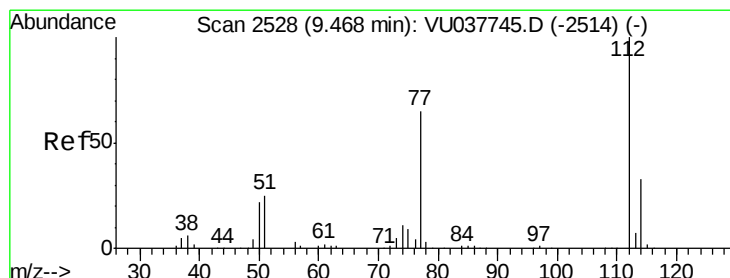
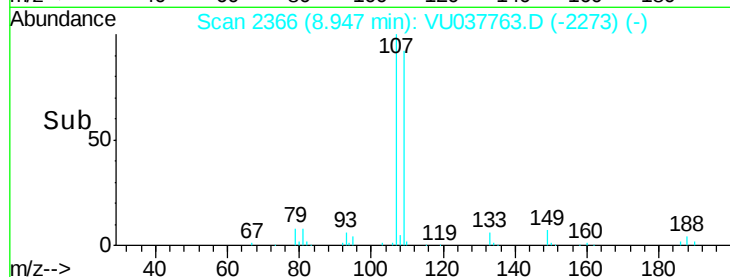
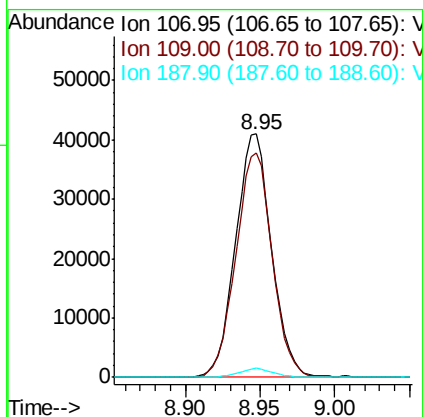
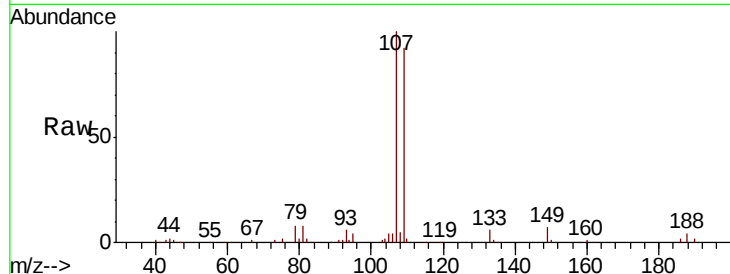




#50
 1,2-Dibromoethane
 Concen: 4.705 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

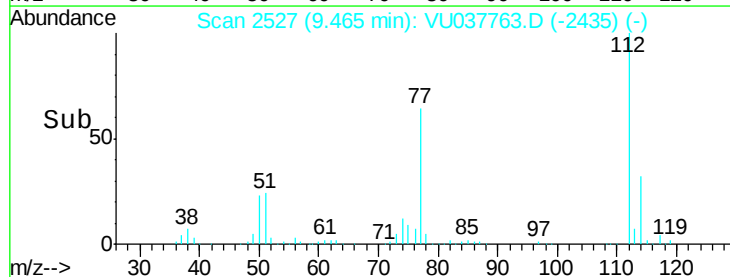
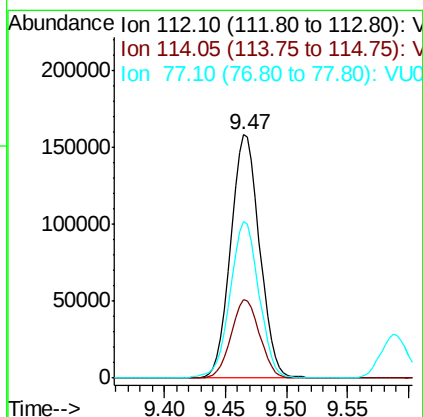
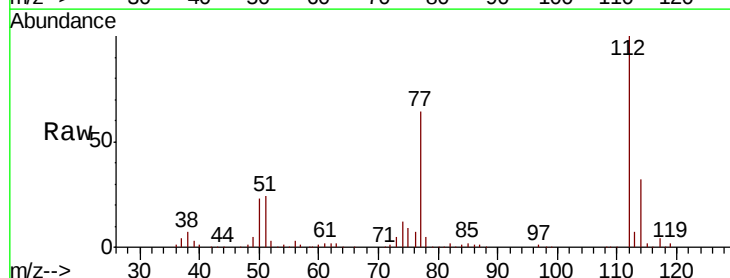
Instrument :
 MSVOA_U
 ClientSampleId :

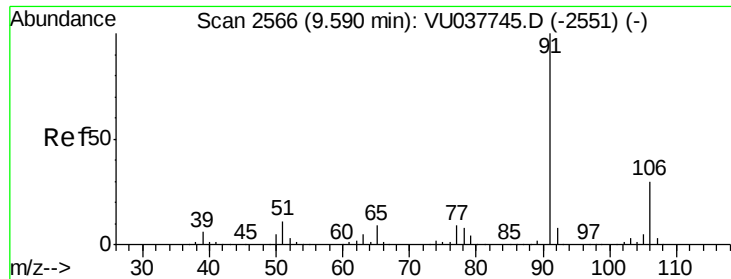
Tot Ion:107 Resp: 68580
 Ion Ratio Lower Upper
 107 100
 109 92.4 66.3 123.1
 188 3.7 2.5 3.7#



#51
 Chlorobenzene
 Concen: 4.820 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion:112 Resp: 261277
 Ion Ratio Lower Upper
 112 100
 114 32.1 22.6 42.0
 77 64.5 50.2 75.4

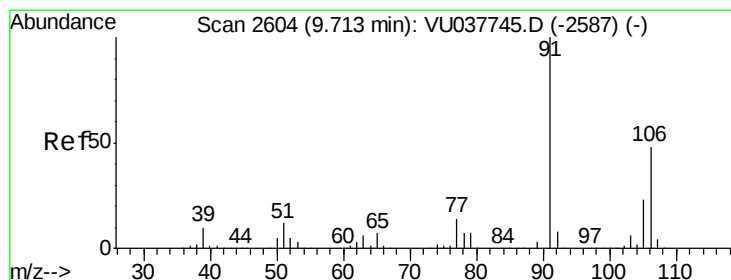
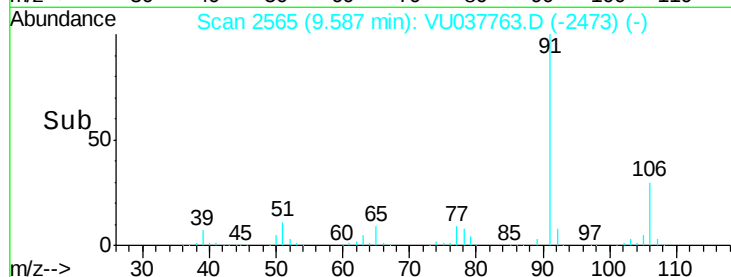
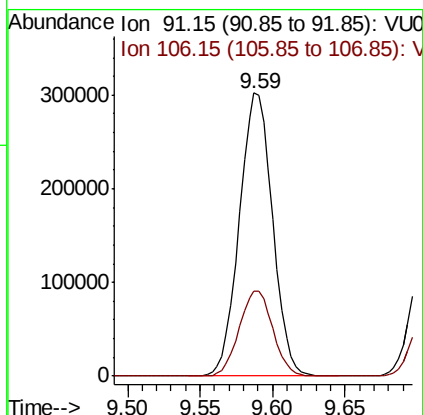
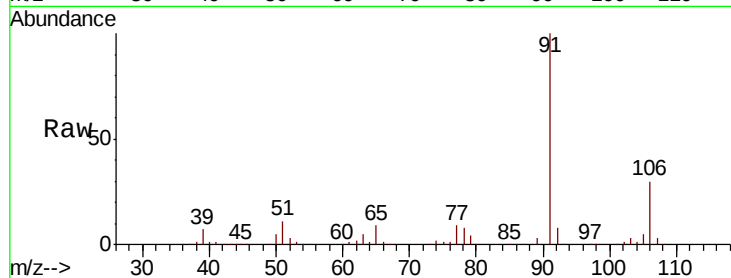




#52
Ethylbenzene
Concen: 4.864 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

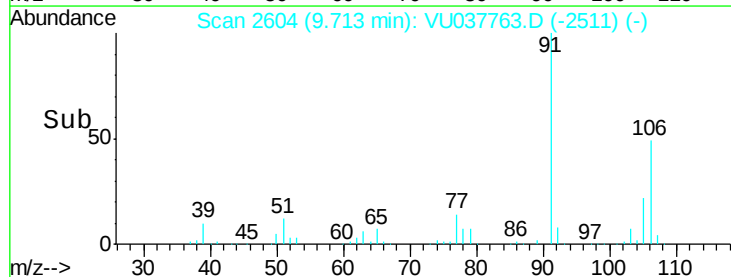
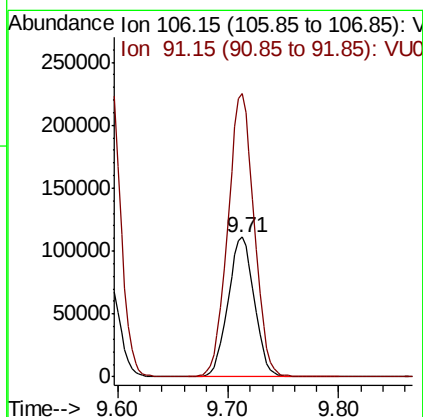
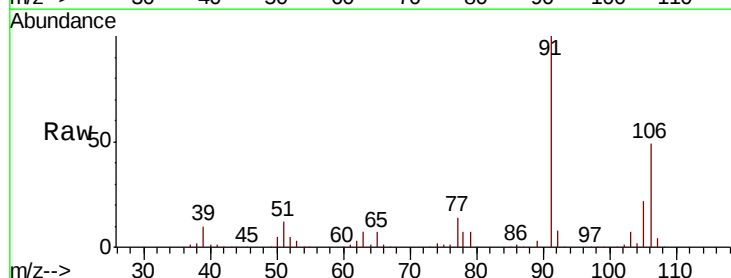
Instrument :
MSVOA_U
ClientSampleId :

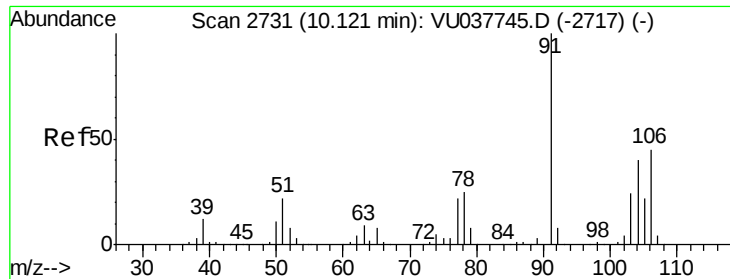
Tot Ion: 91 Resp: 480716
Ion Ratio Lower Upper
91 100
106 30.2 21.7 40.3



#53
m,p-Xylene
Concen: 4.891 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

Tgt Ion:106 Resp: 182962
Ion Ratio Lower Upper
106 100
91 202.8 143.9 267.3

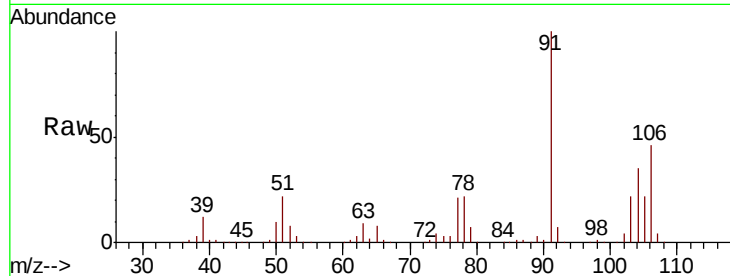




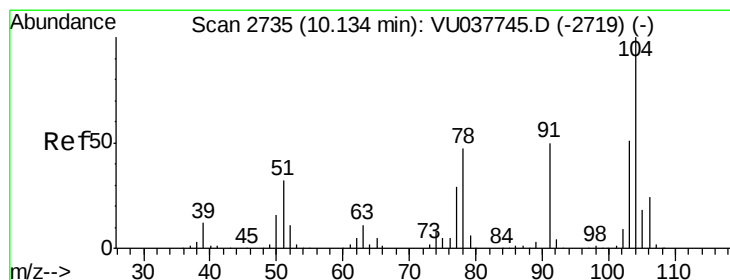
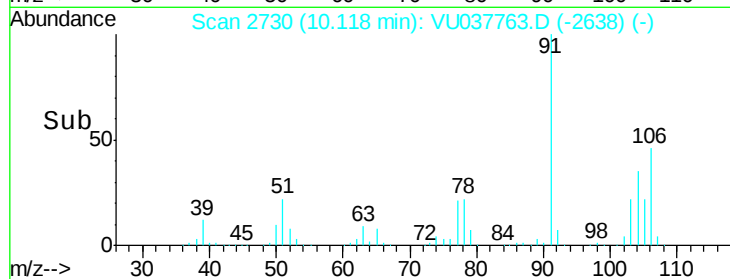
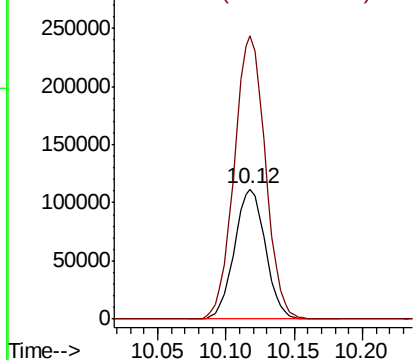
#54
o-Xylene
Concen: 4.789 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 176339
Ion Ratio Lower Upper
106 100
91 217.8 151.1 280.7

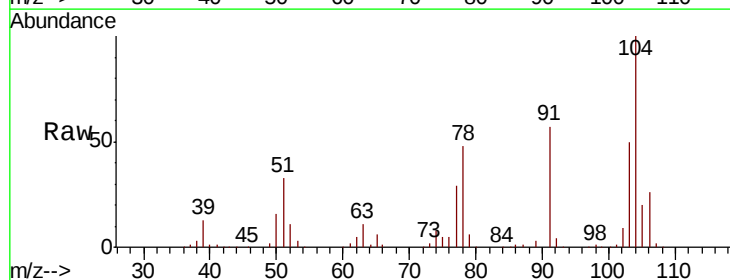


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

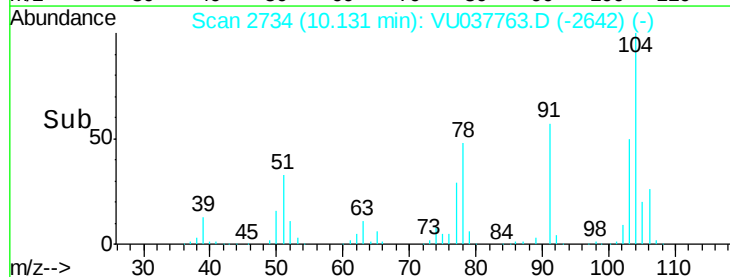
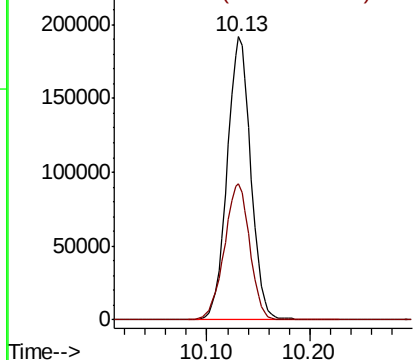


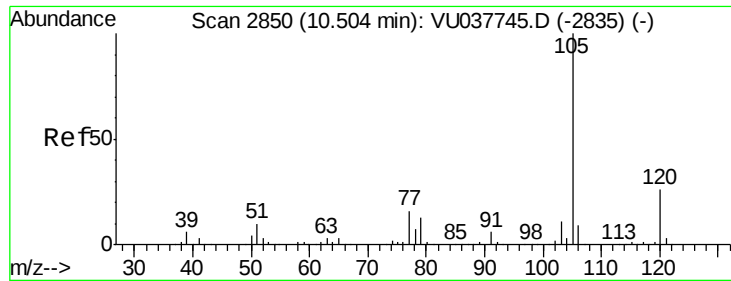
#55
Styrene
Concen: 4.865 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU037763.D
Acq: 16 Apr 2020 18:46

Tgt Ion:104 Resp: 306171
Ion Ratio Lower Upper
104 100
78 48.0 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: 4.928 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

ClientSampleId :

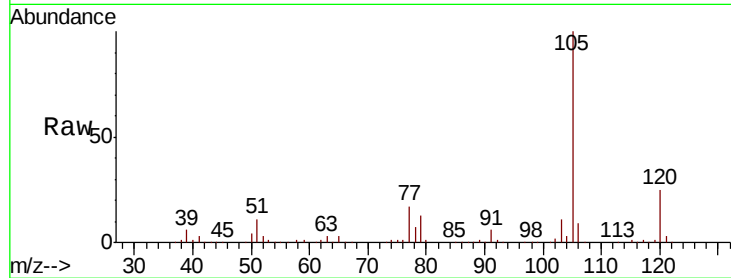
Tot Ion:105 Resp: 475891

Ion Ratio Lower Upper

105 100

120 25.3 20.6 31.0

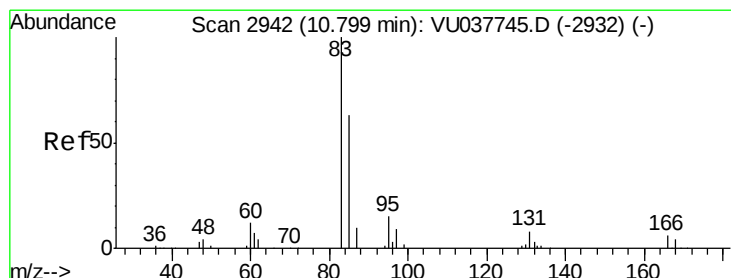
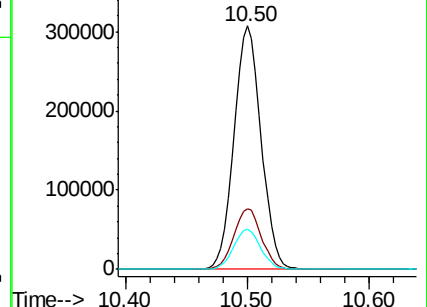
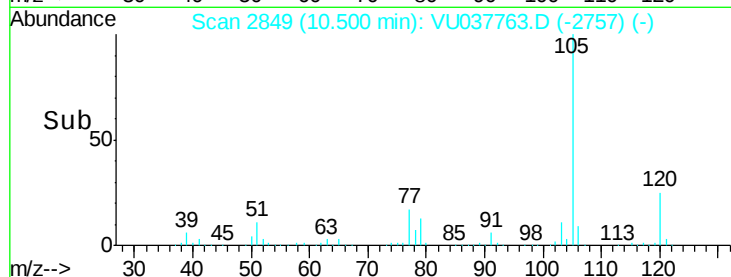
77 16.6 13.2 19.8



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: 4.772 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

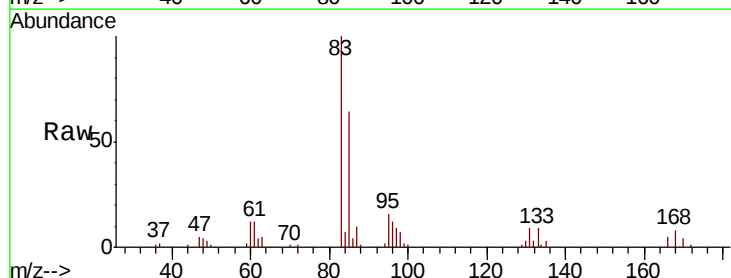
Tgt Ion: 83 Resp: 94158

Ion Ratio Lower Upper

83 100

85 64.3 45.3 84.1

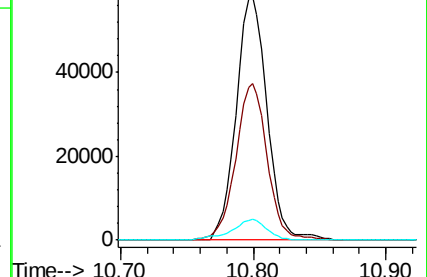
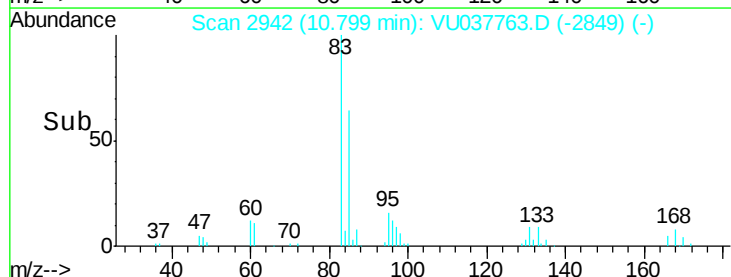
131 8.6 7.4 11.2

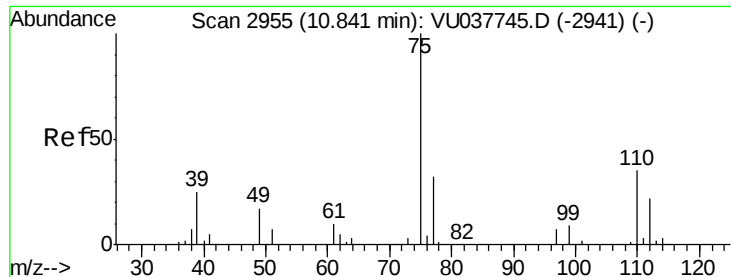


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.770 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

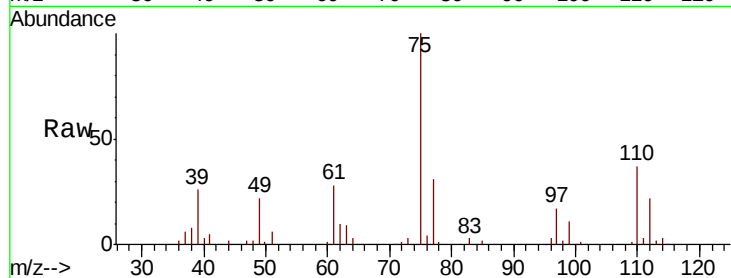
ClientSampleId :

Tot Ion: 75 Resp: 70225

Ion Ratio Lower Upper

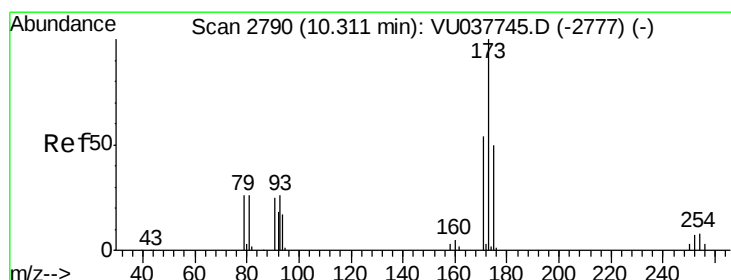
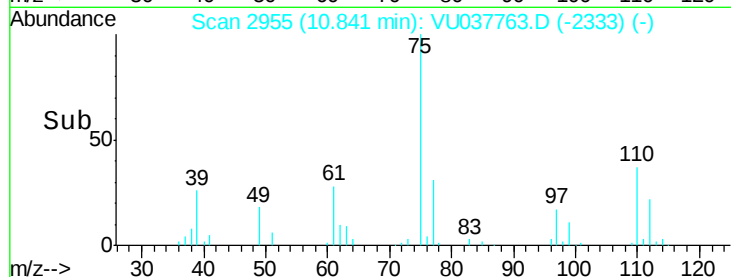
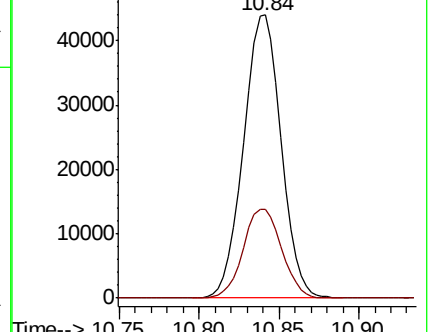
75 100

77 32.1 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU037745.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU037745.D (-2941) (-)



#61

Bromoform

Concen: 4.551 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

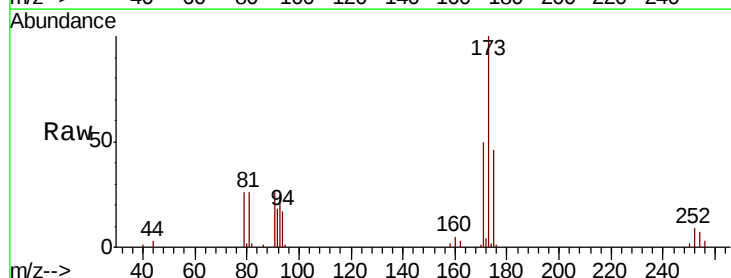
Tgt Ion: 173 Resp: 48273

Ion Ratio Lower Upper

173 100

175 45.7 37.6 56.4

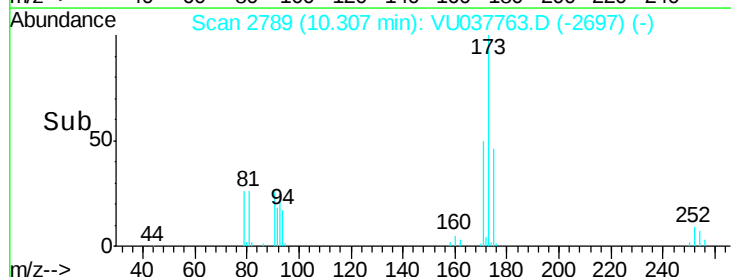
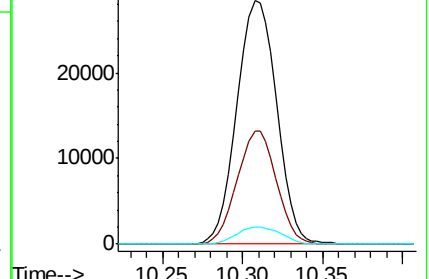
254 7.7 5.8 8.8

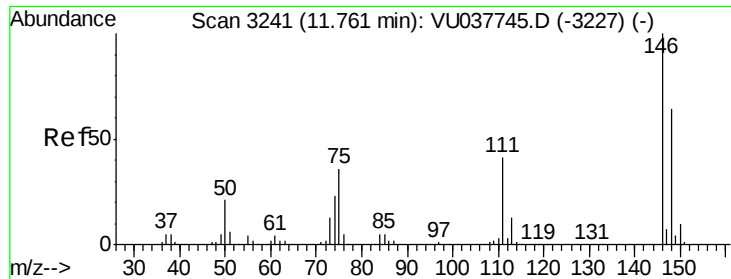


Abundance Ion 172.90 (172.60 to 173.60): VU037745.D (-2777) (-)

Ion 174.90 (174.60 to 175.60): VU037745.D (-2777) (-)

Ion 253.75 (253.45 to 254.45): VU037745.D (-2777) (-)

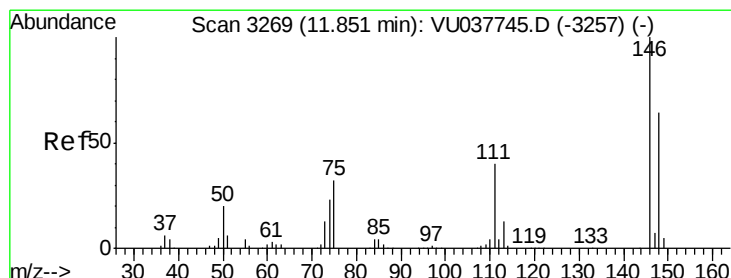
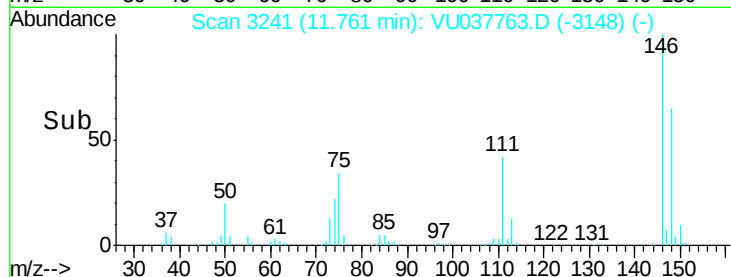
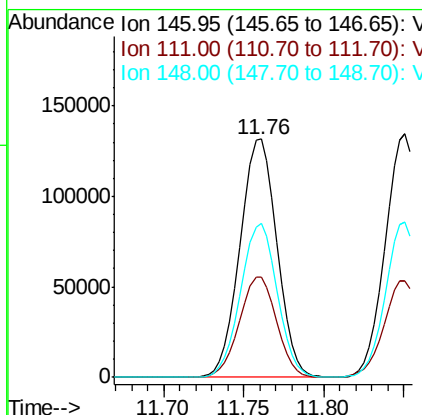
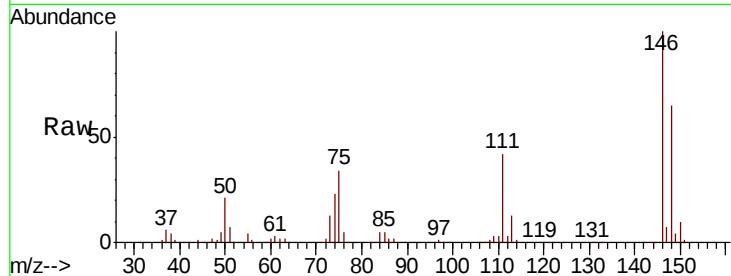




#62
 1,3-Dichlorobenzene
 Concen: 4.631 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

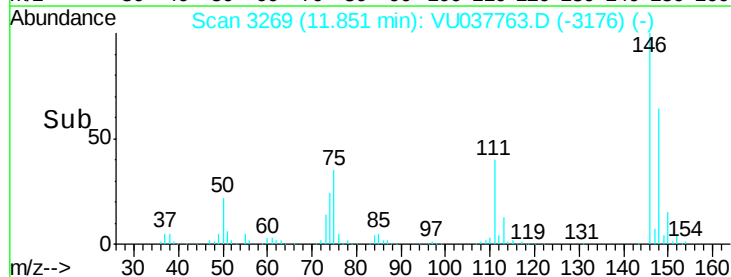
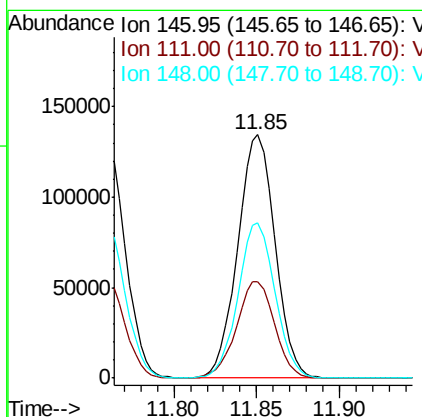
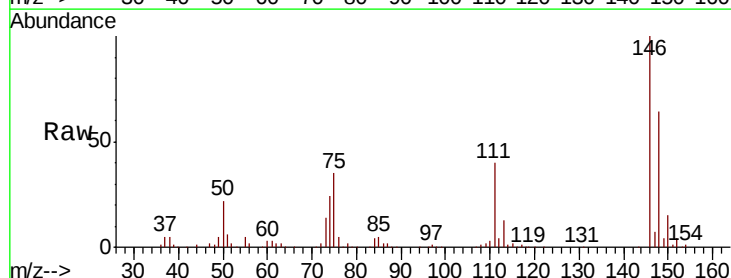
Instrument :
 MSVOA_U
 ClientSampleId :

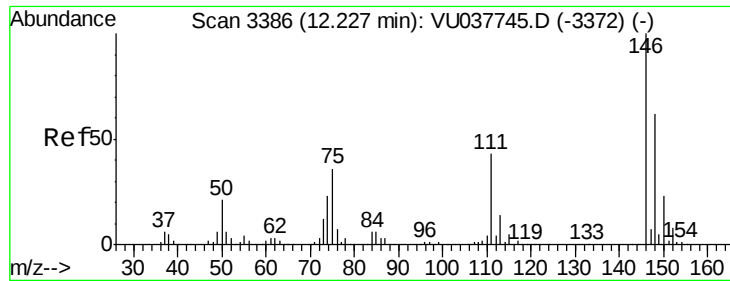
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	29.8	55.3
148	64.7	44.5	82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.687 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	28.4	52.8
148	63.6	44.9	83.3





#65

1,2-Dichlorobenzene

Concen: 4.622 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

ClientSampleId :

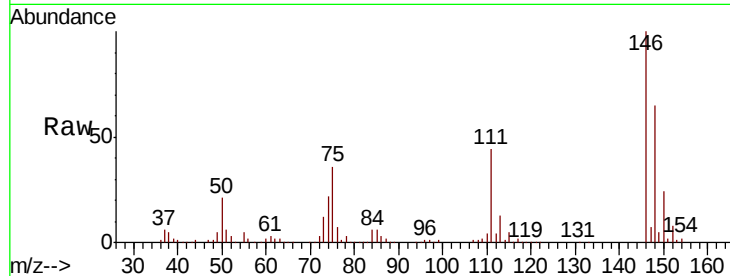
Tot Ion:146 Resp: 194563

Ion Ratio Lower Upper

146 100

111 43.5 35.0 52.6

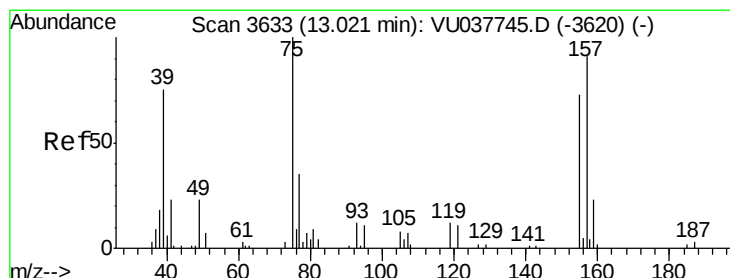
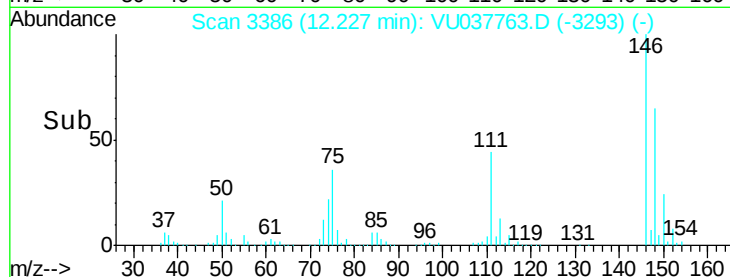
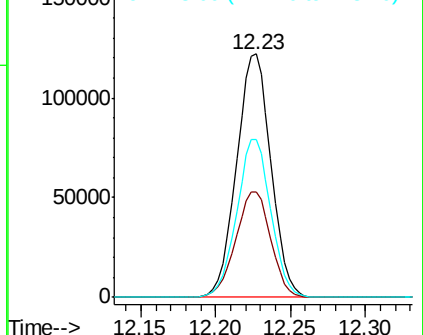
148 65.0 51.5 77.3



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: 4.397 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.01 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

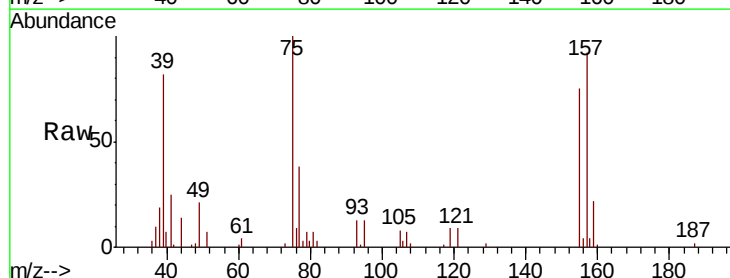
Tgt Ion: 75 Resp: 17157

Ion Ratio Lower Upper

75 100

155 75.0 57.9 86.9

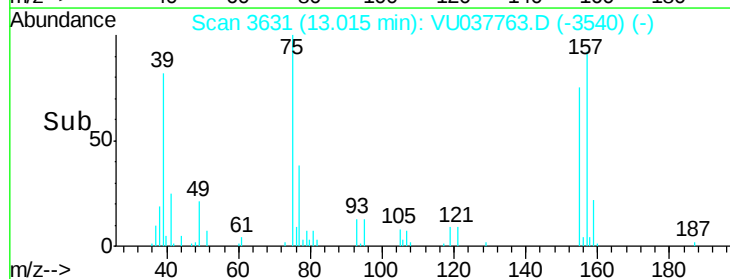
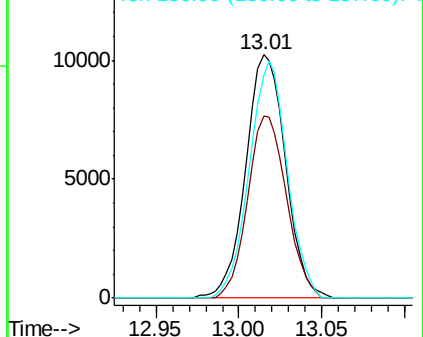
157 91.8 79.8 119.8

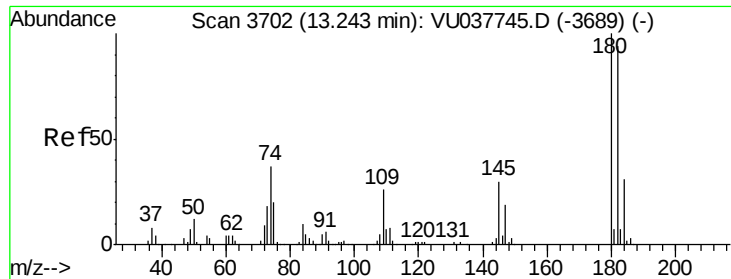


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

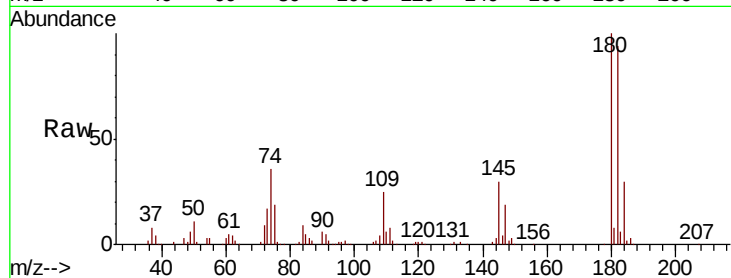




#67
 1,3,5-Trichlorobenzene
 Concen: 4.774 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	77.1	115.7
184	30.3	24.7	37.1
145	29.4	24.6	37.0



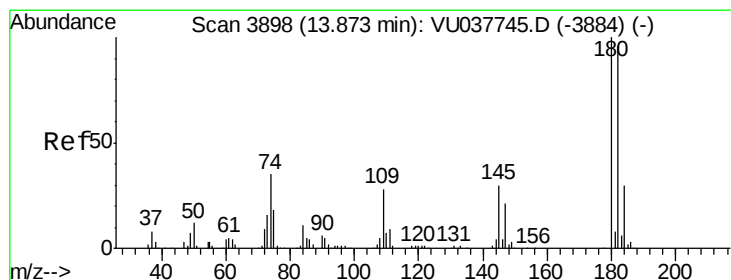
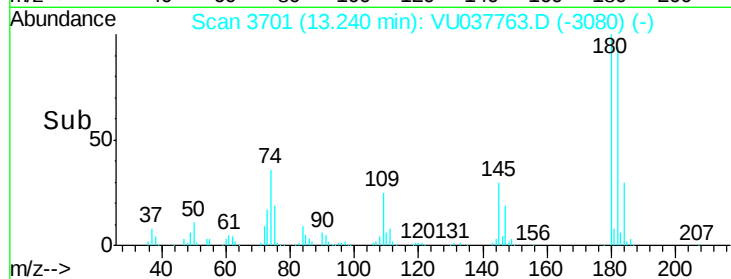
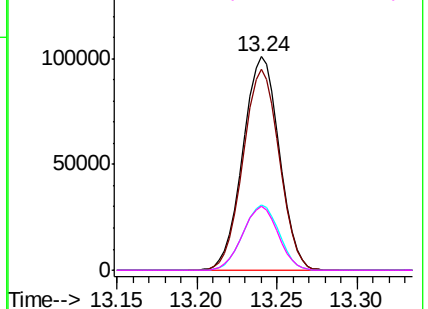
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

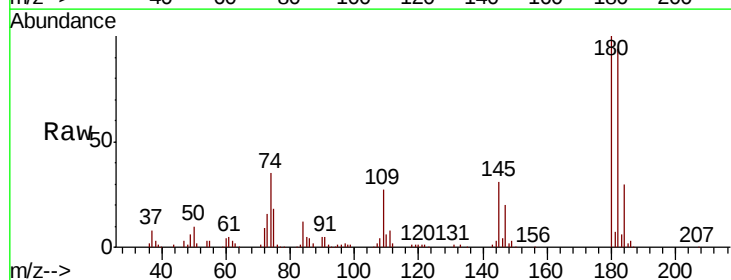
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.694 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU037763.D
 Acq: 16 Apr 2020 18:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.4	114.6
145	31.1	25.1	37.7

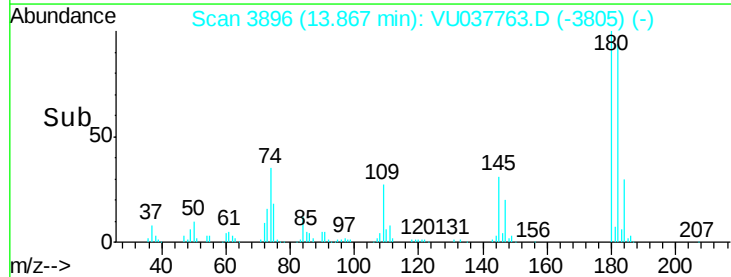
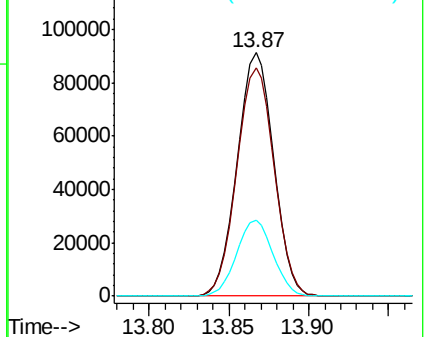


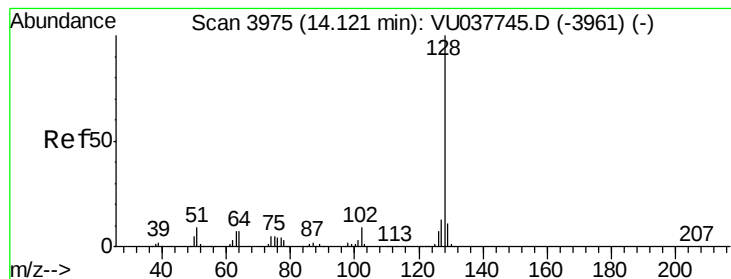
Abundance

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: 4.427 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

Instrument :

MSVOA_U

ClientSampleId :

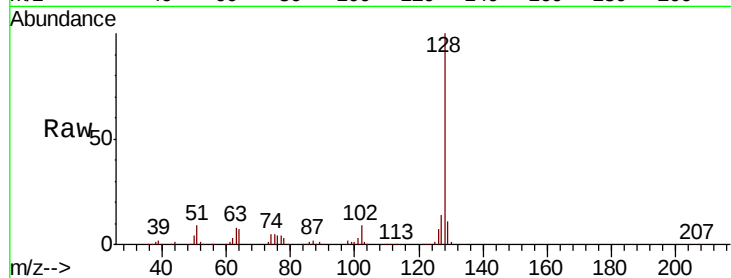
Tot Ion:128 Resp: 269813

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

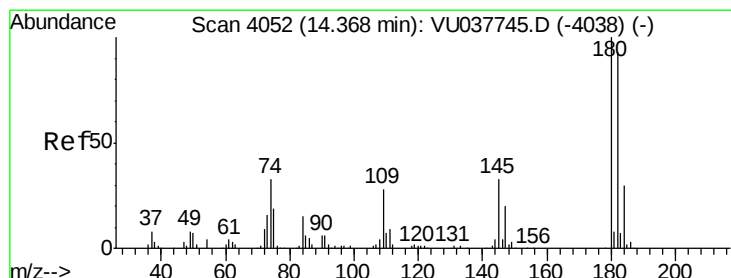
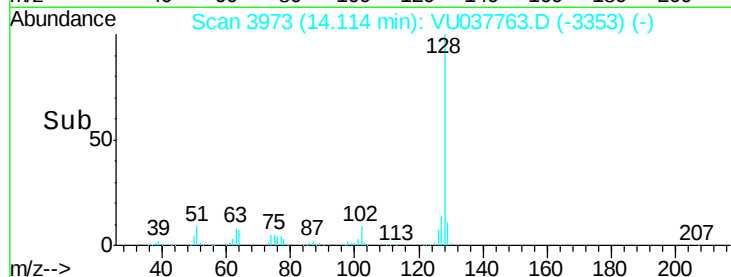
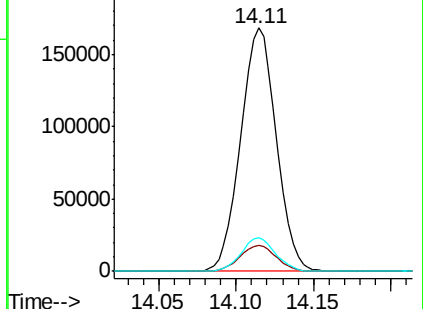
127 13.4 10.4 15.6



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: 4.745 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VU037763.D

Acq: 16 Apr 2020 18:46

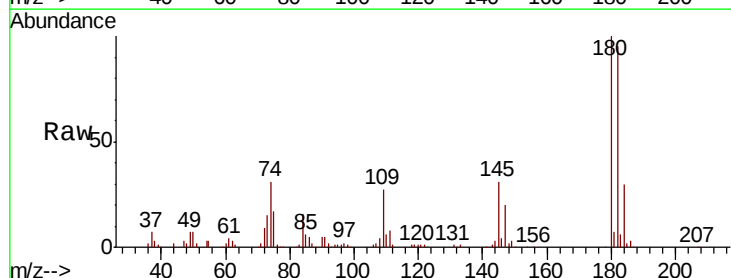
Tgt Ion:180 Resp: 127238

Ion Ratio Lower Upper

180 100

182 95.7 76.6 115.0

145 32.3 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

