

Data File : VU032498.D
Acq On : 06 Jun 2019 15:39
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Quant Time: Jun 07 05:49:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 07 05:44:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	208782	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	201443	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	107331	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	58809	43.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.82%
7) Chloroethane-d5	1.67	69	49765	45.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.44%
11) 1,1-Dichloroethene-d2	2.27	63	124204	46.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.66%
21) 2-Butanone-d5	4.17	46	111216	98.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.11%
24) Chloroform-d	4.64	84	120923	47.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.74%
26) 1,2-Dichloroethane-d4	5.30	65	76735	48.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.44%
32) Benzene-d6	5.33	84	242727	46.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.82%
36) 1,2-Dichloropropane-d6	6.32	67	77305	47.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.28%
41) Toluene-d8	7.56	98	227464	45.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.74%
43) trans-1,3-Dichloropropene-	7.85	79	37712	48.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.12%
47) 2-Hexanone-d5	8.31	63	74886	94.15	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.15%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	115379	48.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.12%
64) 1,2-Dichlorobenzene-d4	11.86	152	99964	48.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.26%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	92104	48.934	ug/L 99
3) Chloromethane	1.32	50	88091	48.435	ug/L 100
5) Vinyl chloride	1.40	62	85706	47.174	ug/L 98
6) Bromomethane	1.62	94	52285	48.292	ug/L 98
8) Chloroethane	1.69	64	50933	47.164	ug/L 99
9) Trichlorofluoromethane	1.88	101	119602	48.752	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	62804	49.224	ug/L 99
12) 1,1-Dichloroethene	2.28	96	61179	49.384	ug/L 82
13) Acetone	2.32	43	103148	88.188	ug/L 100
14) Carbon disulfide	2.47	76	180436	47.935	ug/L 99
15) Methyl Acetate	2.61	43	82041	49.127	ug/L 100
16) Methylene chloride	2.69	84	70398	49.801	ug/L 99
17) trans-1,2-Dichloroethene	2.98	96	66442	49.492	ug/L 98
18) Methyl tert-butyl Ether	2.99	73	218822	49.615	ug/L 100
19) 1,1-Dichloroethane	3.44	63	122205	49.934	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	75194	49.492	ug/L 96
22) 2-Butanone	4.25	43	130559	94.445	ug/L 99

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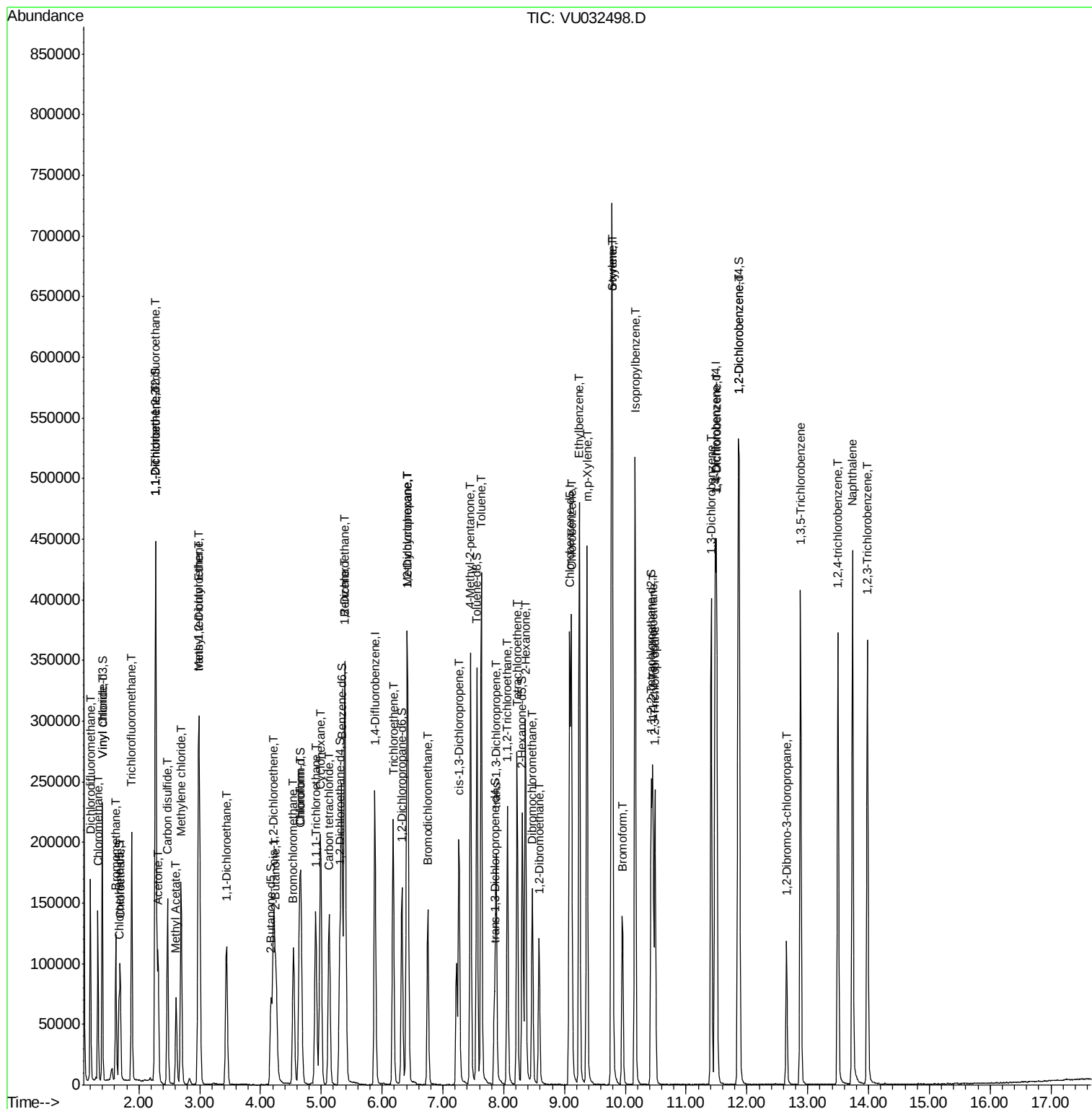
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	39156	49.566	ug/L	99
25) Chloroform	4.67	83	126262	49.995	ug/L	99
27) 1,2-Dichloroethane	5.40	62	99137	49.655	ug/L	99
29) Cyclohexane	4.99	56	114533	47.801	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	110395	48.410	ug/L	98
31) Carbon tetrachloride	5.13	117	101061	48.353	ug/L	99
33) Benzene	5.38	78	275032	48.593	ug/L	100
34) Trichloroethene	6.18	95	73234	47.559	ug/L	99
35) Methylcyclohexane	6.41	83	119845	48.076	ug/L	99
37) 1,2-Dichloropropane	6.43	63	74034	49.344	ug/L	100
38) Bromodichloromethane	6.75	83	92949	48.113	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	118845	50.204	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	237928	98.573	ug/L	99
42) Toluene	7.63	91	301328	48.613	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	104128	49.558	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	69689	49.118	ug/L	99
46) Tetrachloroethene	8.22	164	62668	49.275	ug/L	99
48) 2-Hexanone	8.36	43	194986	98.353	ug/L	99
49) Dibromochloromethane	8.47	129	82588	50.080	ug/L	99
50) 1,2-Dibromoethane	8.58	107	78174	48.951	ug/L	99
51) Chlorobenzene	9.11	112	202186	50.629	ug/L	99
52) Ethylbenzene	9.24	91	339243	49.100	ug/L	99
53) m,p-Xylene	9.37	106	128045	48.737	ug/L	99
54) o-xylene	9.77	106	127062	48.710	ug/L	99
55) Styrene	9.79	104	217892	50.035	ug/L	98
56) Isopropylbenzene	10.16	105	336139	48.868	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	119997	49.485	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	94627	48.516	ug/L	99
61) Bromoform	9.95	173	63420	49.560	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	164089	50.532	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	168869	50.867	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	169868	51.742	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	28085	50.846	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	130496	51.653	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	120311	56.212	ug/L	99
69) Naphthalene	13.74	128	363725	53.877	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	120460	54.079	ug/L	99

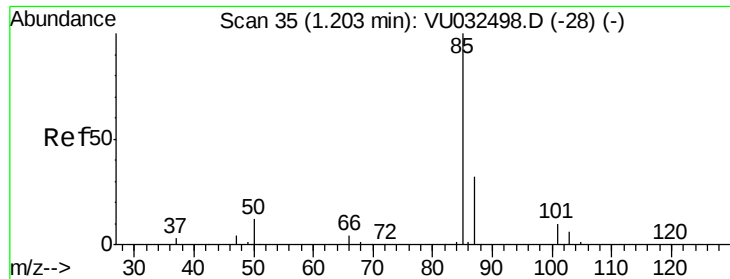
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.934 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

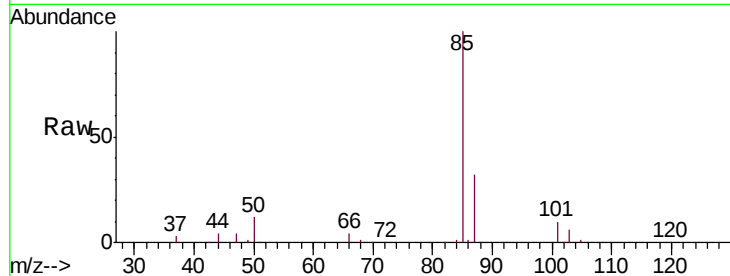
VSTD05033

Tgt Ion: 85 Resp: 92104

Ion Ratio Lower Upper

85 100

87 31.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU032498.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032498.D (-28) (-)

1.20

100000

80000

60000

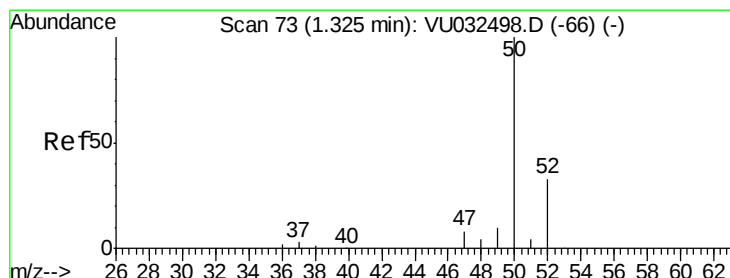
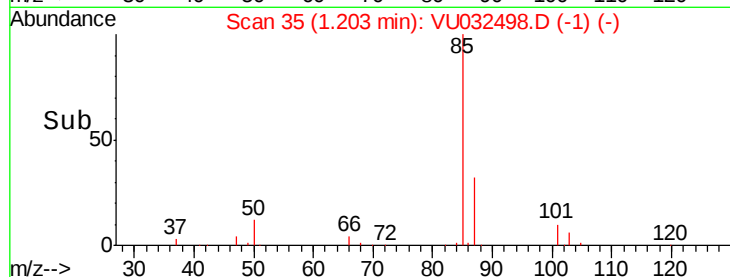
40000

20000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 48.435 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032498.D

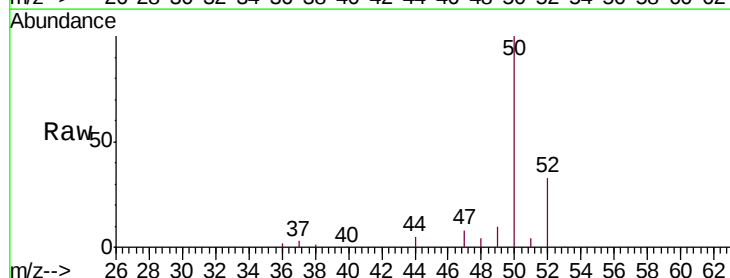
Acq: 06 Jun 2019 15:39

Tgt Ion: 50 Resp: 88091

Ion Ratio Lower Upper

50 100

52 33.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032498.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU032498.D (-66) (-)

1.32

100000

80000

60000

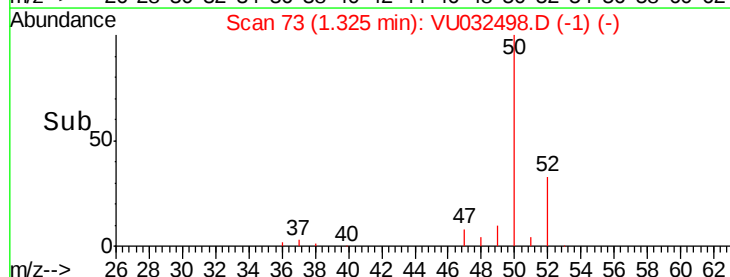
40000

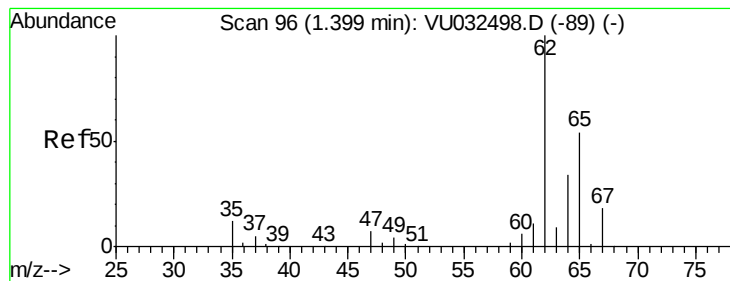
20000

0

1.30 1.35

Time-->





#5

Vinyl chloride

Concen: 47.174 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

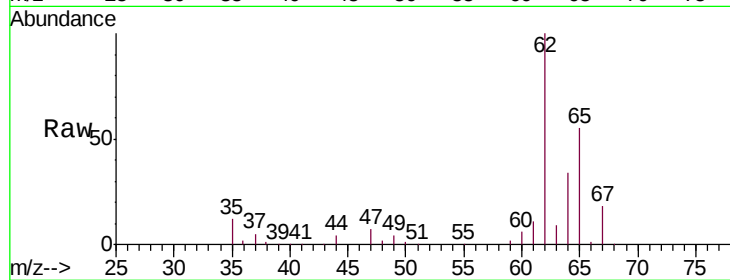
VSTD05033

Tgt Ion: 62 Resp: 85706

Ion Ratio Lower Upper

62 100

64 33.6 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU032498.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU032498.D (-89) (-)

1.40

80000

60000

40000

20000

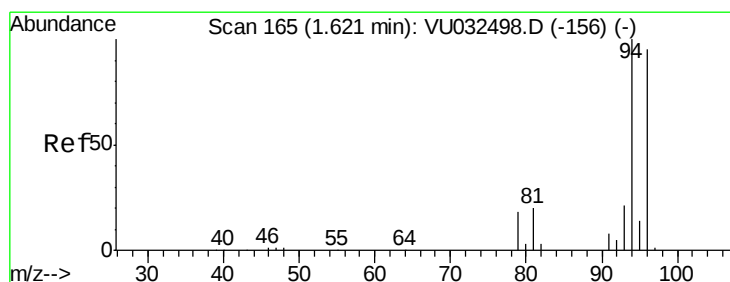
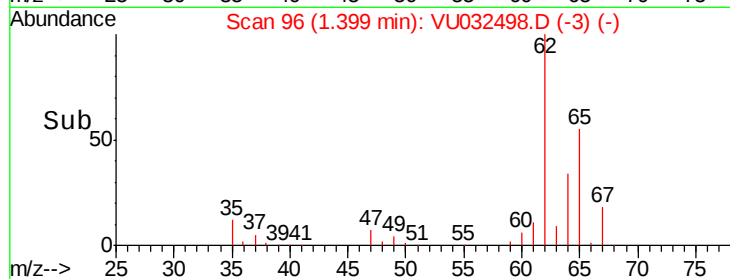
0

Time-->

1.35

1.40

1.45



#6

Bromomethane

Concen: 48.292 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU032498.D

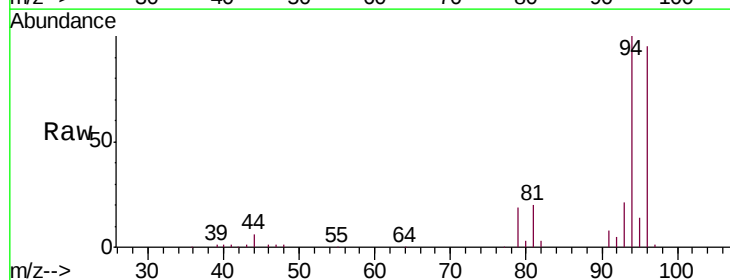
Acq: 06 Jun 2019 15:39

Tgt Ion: 94 Resp: 52285

Ion Ratio Lower Upper

94 100

96 94.7 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VU032498.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU032498.D (-156) (-)

1.62

40000

30000

20000

10000

0

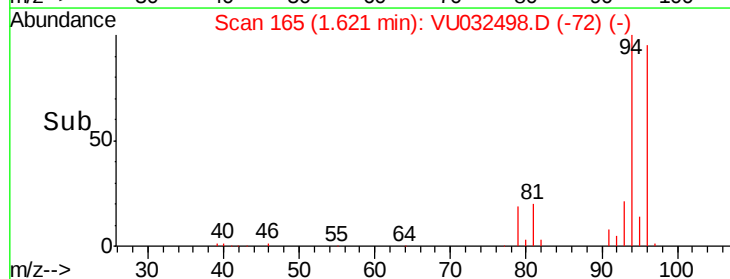
Time-->

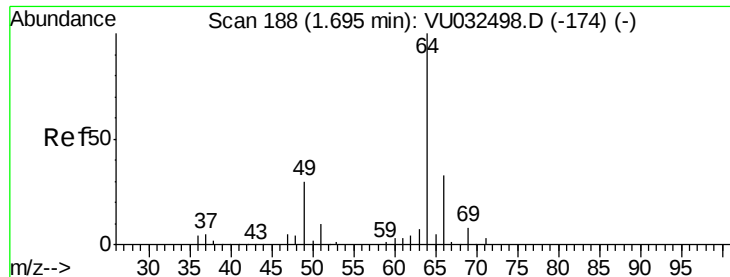
1.55

1.60

1.65

1.70





#8

Chloroethane

Concen: 47.164 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

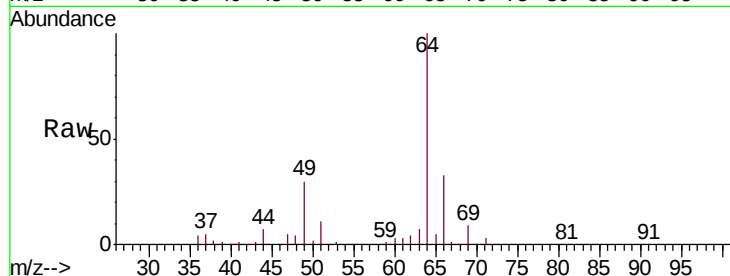
VSTD05033

Tgt Ion: 64 Resp: 50933

Ion Ratio Lower Upper

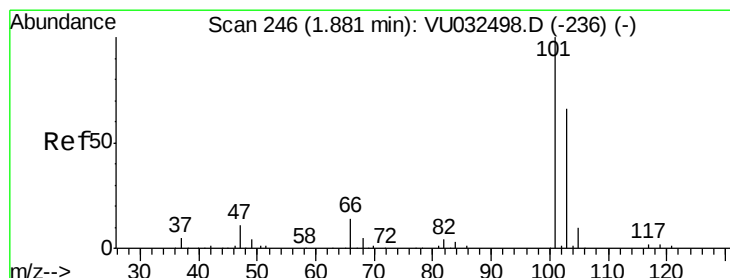
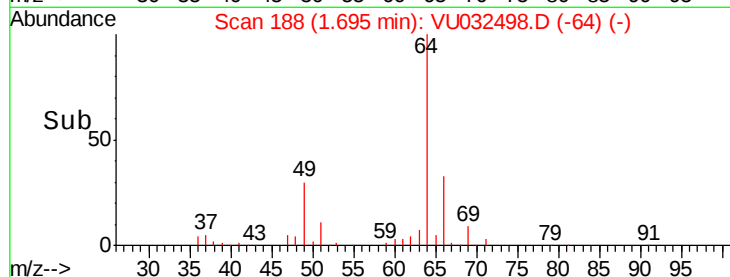
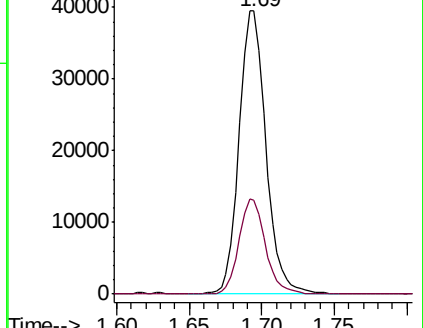
64 100

66 33.3 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VU032498.D (-174) (-)

Ion 66.00 (65.70 to 66.70): VU032498.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 48.752 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032498.D

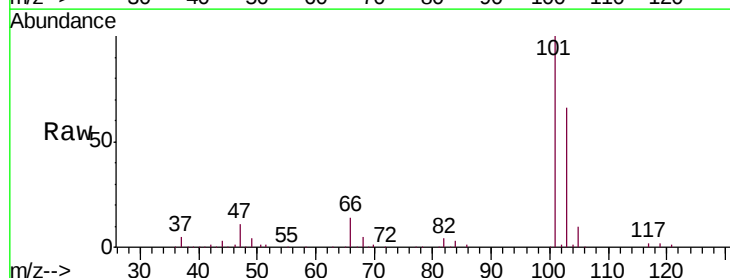
Acq: 06 Jun 2019 15:39

Tgt Ion: 101 Resp: 119602

Ion Ratio Lower Upper

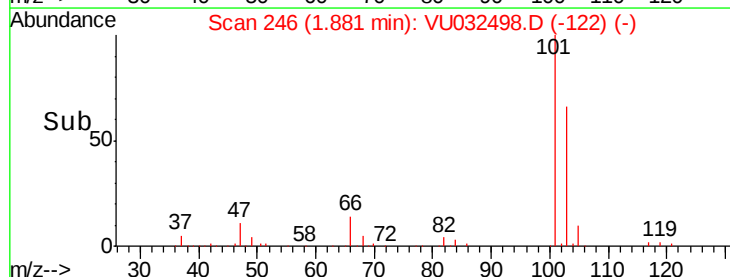
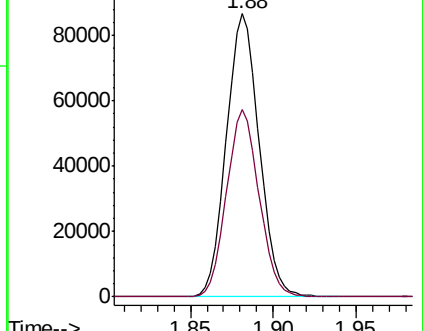
101 100

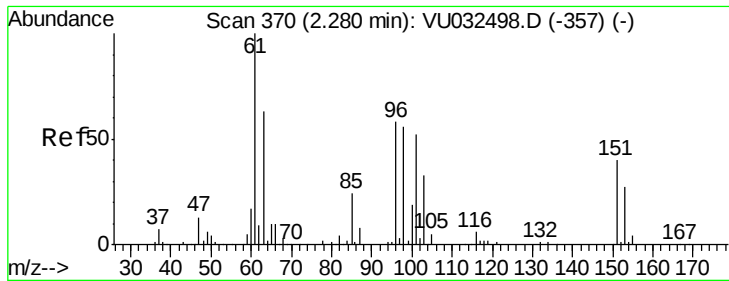
103 65.4 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU032498.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU032498.D (-236) (-)





#10

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

Concen: 49.224 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032498.D

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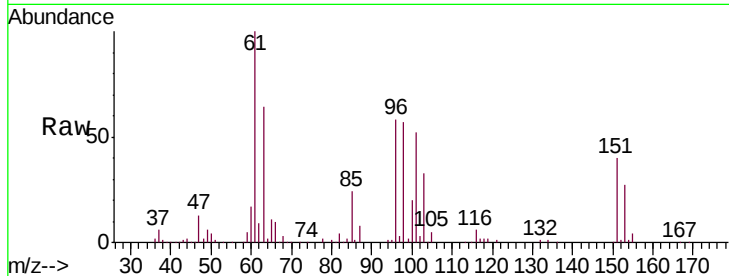
Tgt Ion:101 Resp: 62804

Ion Ratio Lower Upper

101 100

85 44.9 36.1 54.1

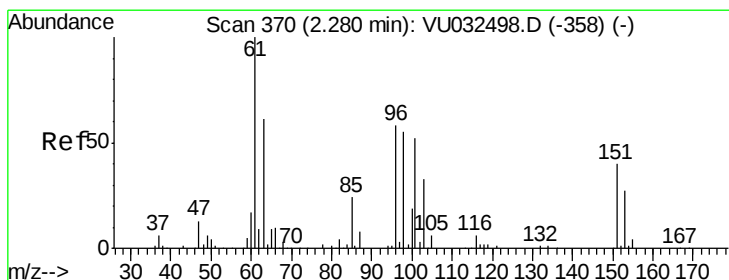
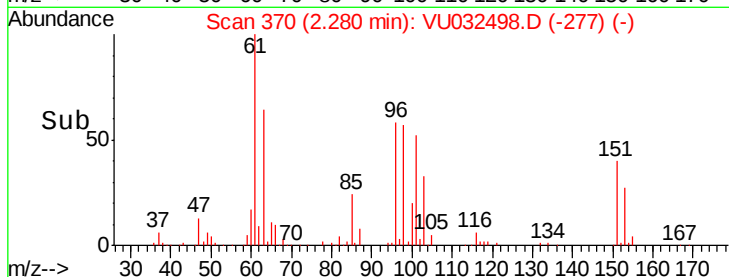
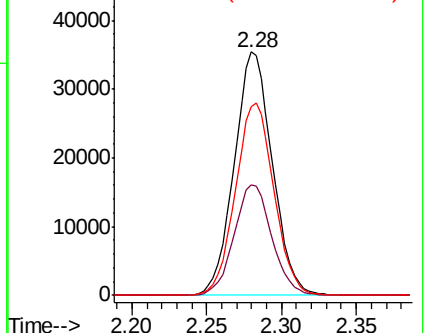
151 79.5 63.0 94.4



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: 49.384 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

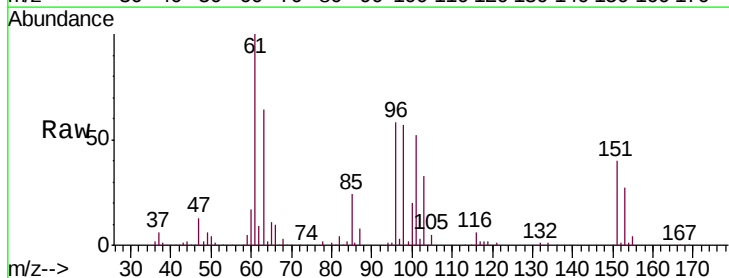
Tgt Ion: 96 Resp: 61179

Ion Ratio Lower Upper

96 100

61 172.6 129.5 240.5

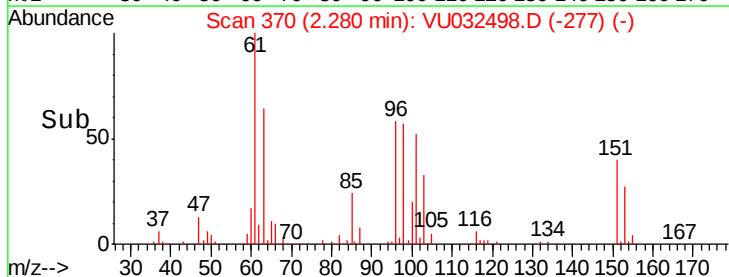
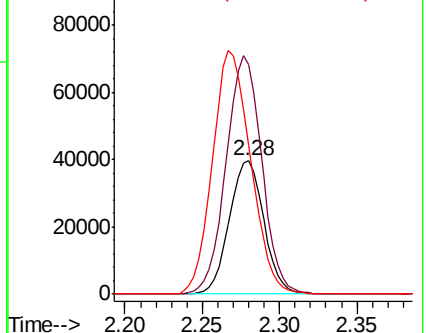
63 111.3 103.4 192.0

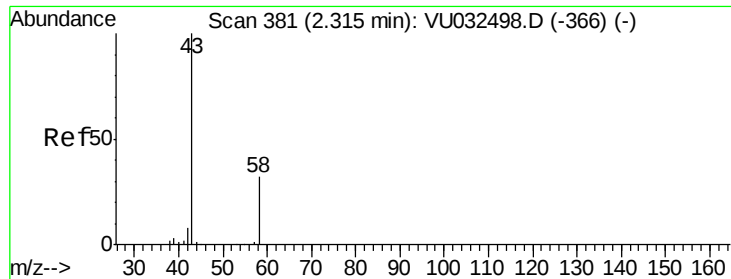


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 88.188 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

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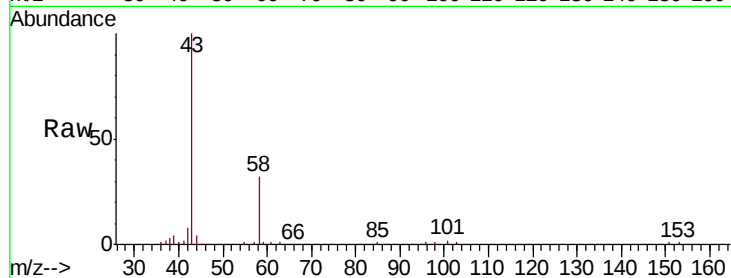
VSTD05033

Tgt Ion: 43 Resp: 103148

Ion Ratio Lower Upper

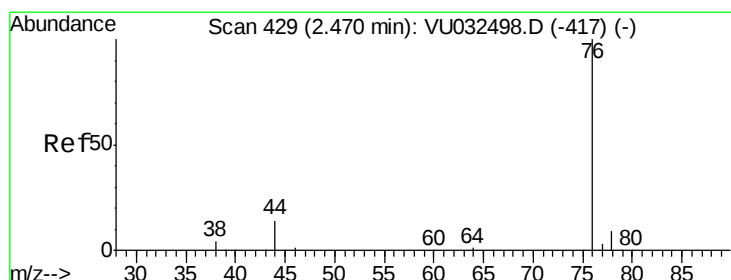
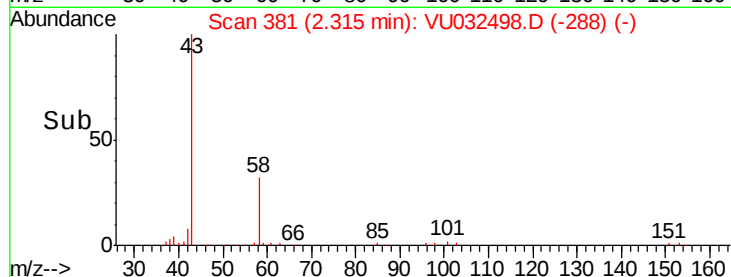
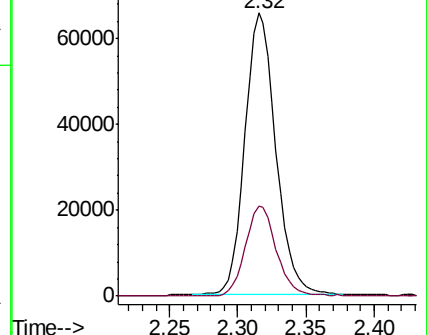
43 100

58 32.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU032498.D (-366) (-)

Ion 58.00 (57.70 to 58.70): VU032498.D (-366) (-)



#14

Carbon disulfide

Concen: 47.935 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032498.D

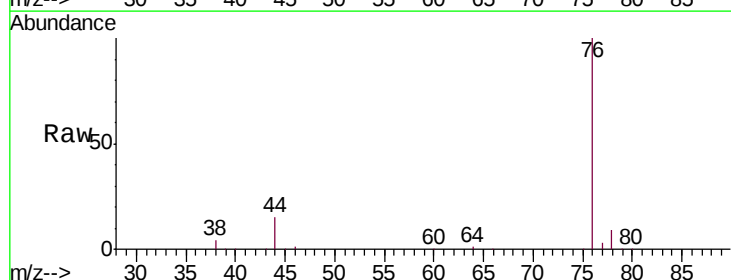
Acq: 06 Jun 2019 15:39

Tgt Ion: 76 Resp: 180436

Ion Ratio Lower Upper

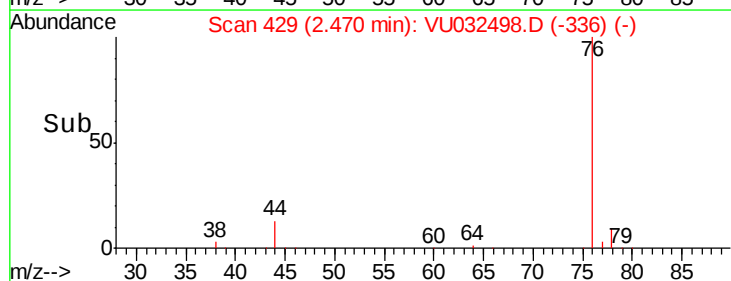
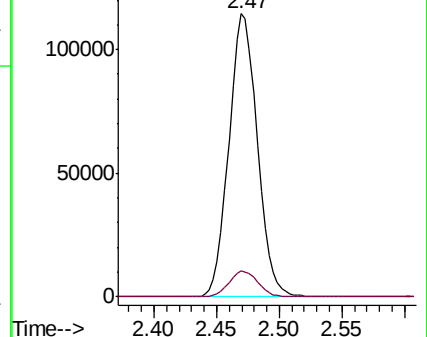
76 100

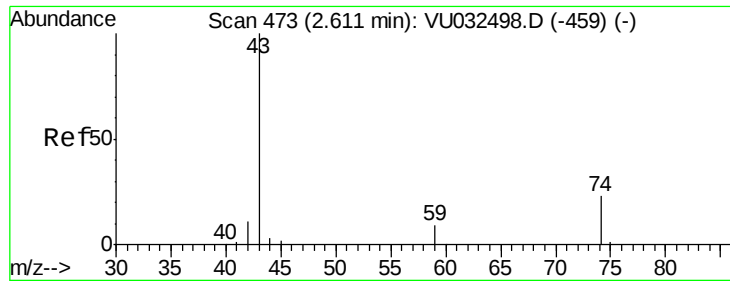
78 9.0 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VU032498.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU032498.D (-417) (-)

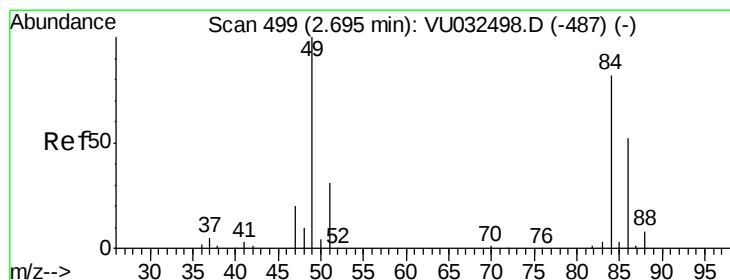
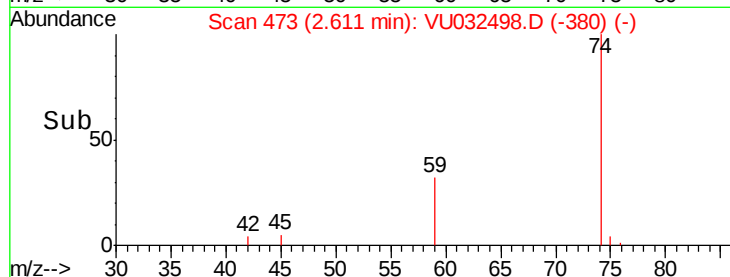
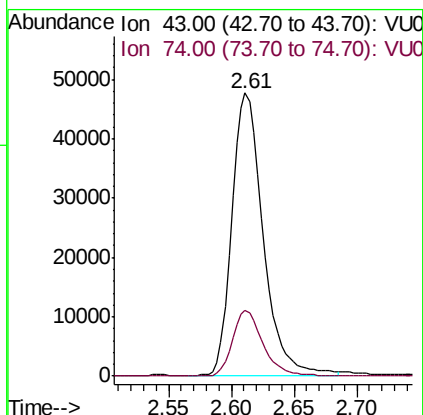
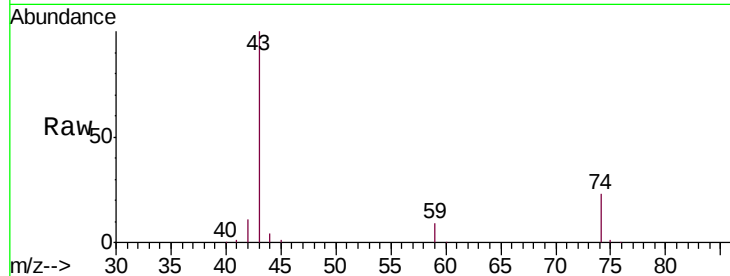




#15
Methyl Acetate
Concen: 49.127 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

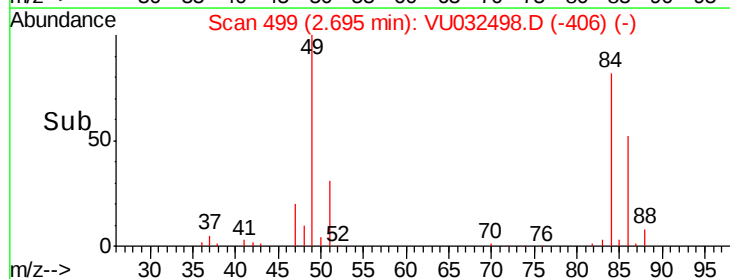
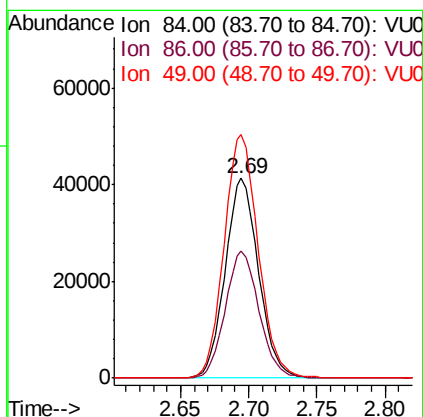
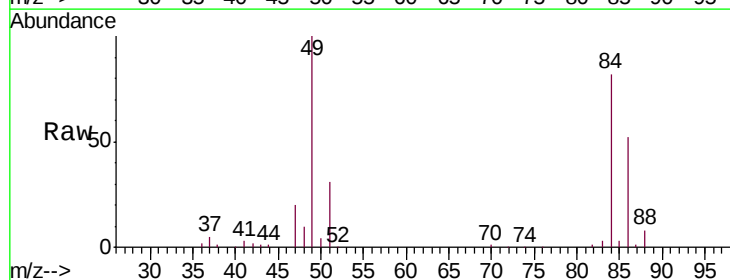
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

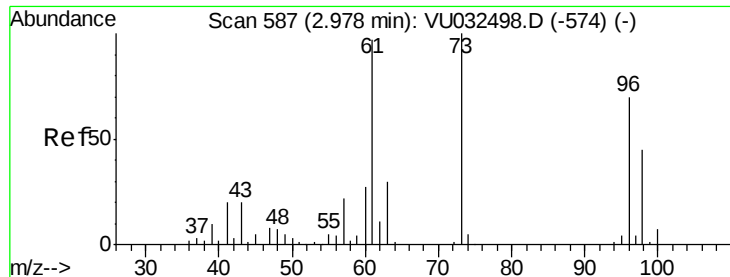
Tgt Ion: 43 Resp: 82041
Ion Ratio Lower Upper
43 100
74 22.5 18.0 27.0



#16
Methylene chloride
Concen: 49.801 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

Tgt Ion: 84 Resp: 70398
Ion Ratio Lower Upper
84 100
86 63.6 44.7 82.9
49 122.0 86.1 159.9

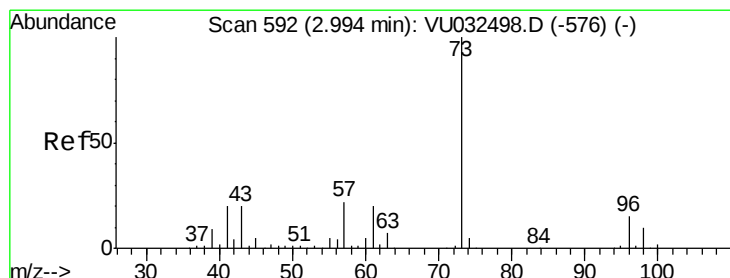
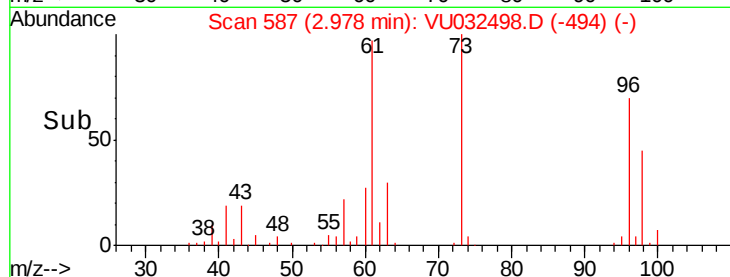
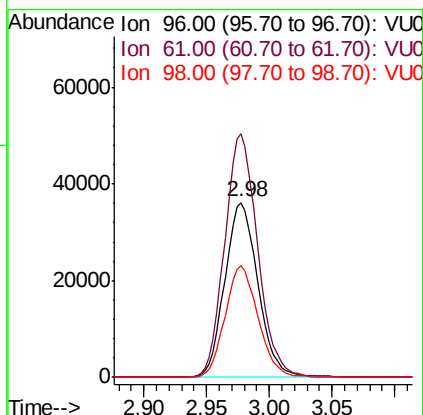
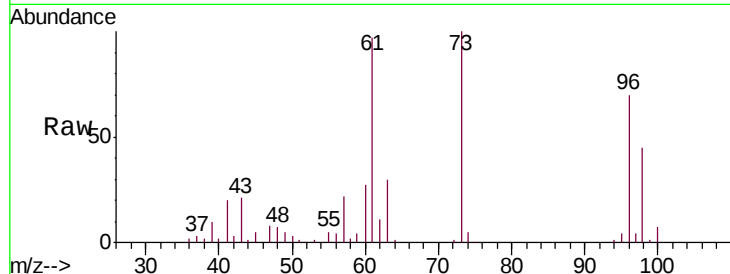




#17
 trans-1,2-Dichloroethene
 Concen: 49.492 ug/L
 RT: 2.98 min Scan# 587
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

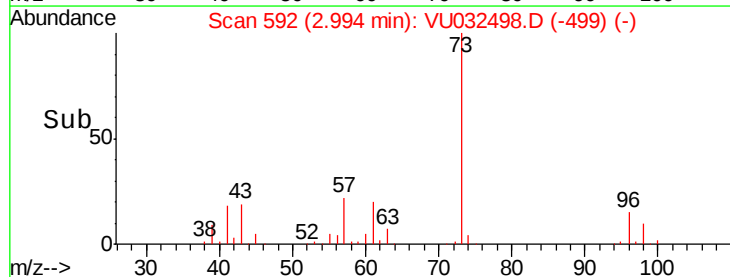
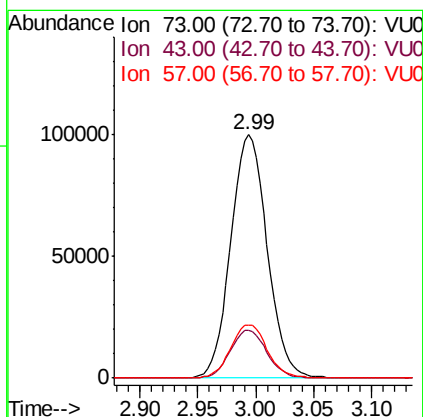
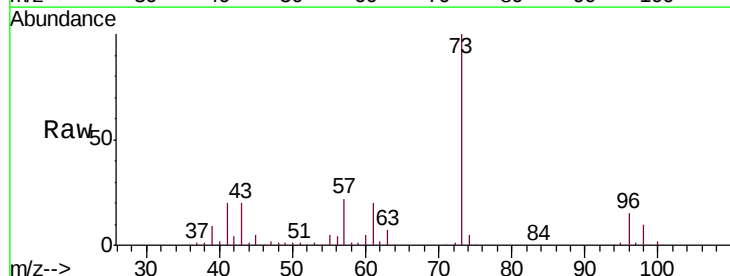
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

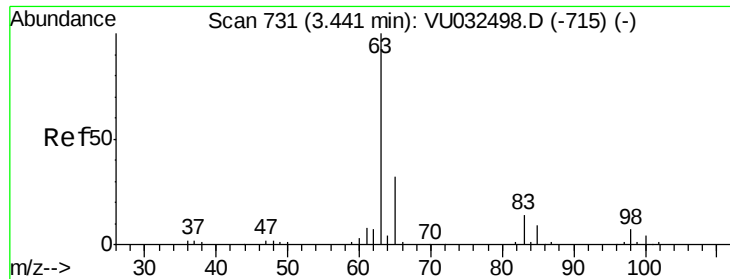
Tgt Ion: 96 Resp: 66442
 Ion Ratio Lower Upper
 96 100
 61 139.4 95.7 177.7
 98 64.1 44.0 81.6



#18
 Methyl tert-butyl Ether
 Concen: 49.615 ug/L
 RT: 2.99 min Scan# 592
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Tgt Ion: 73 Resp: 218822
 Ion Ratio Lower Upper
 73 100
 43 19.5 15.8 23.6
 57 22.0 17.6 26.4

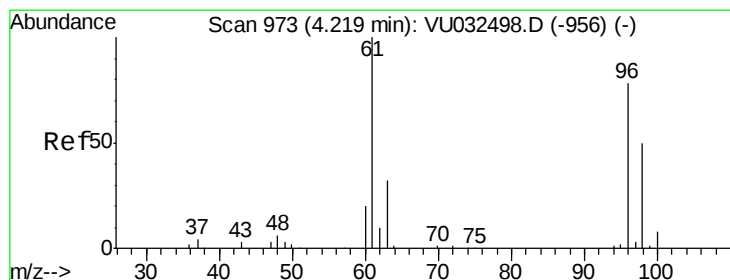
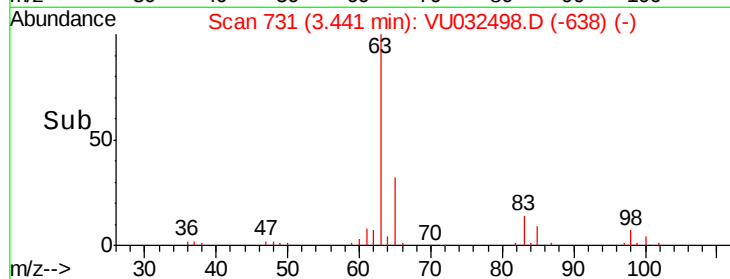
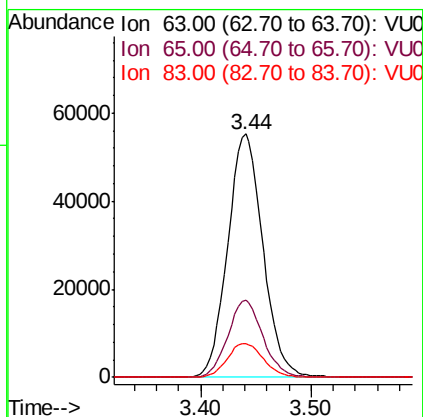
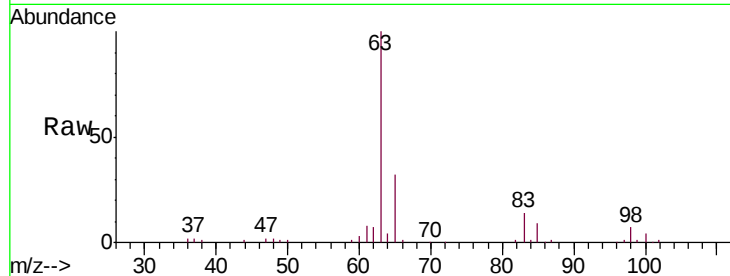




#19
 1,1-Dichloroethane
 Concen: 49.934 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

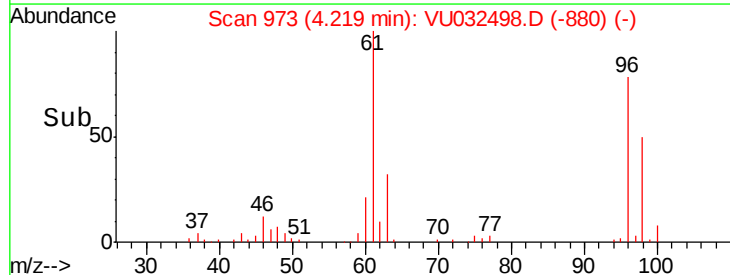
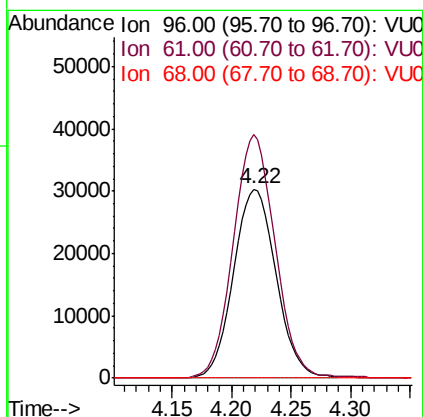
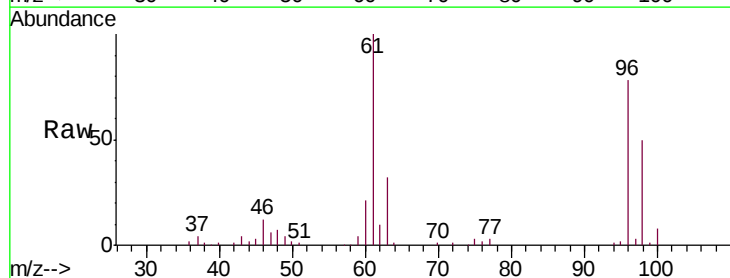
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

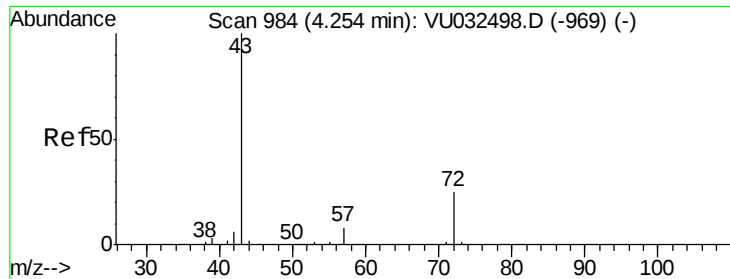
Tgt Ion: 63 Resp: 122205
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.8 40.6
 83 13.8 9.8 18.2



#20
 cis-1,2-Dichloroethene
 Concen: 49.492 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Tgt Ion: 96 Resp: 75194
 Ion Ratio Lower Upper
 96 100
 61 128.9 87.2 162.0
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 94.445 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

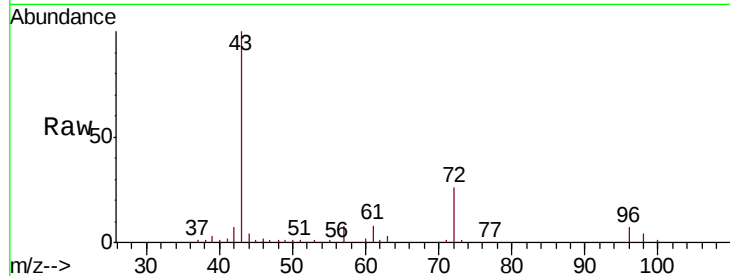
VSTD05033

Tgt Ion: 43 Resp: 130559

Ion Ratio Lower Upper

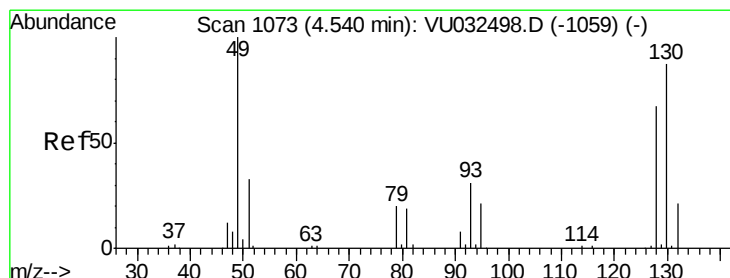
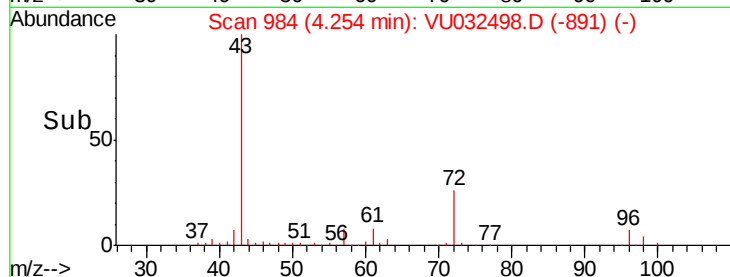
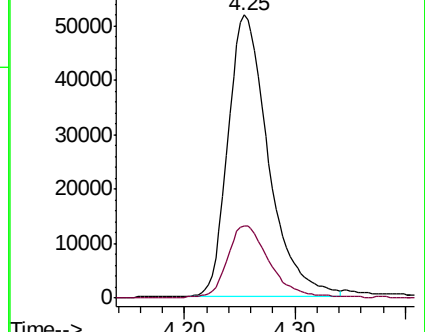
43 100

72 26.9 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VU032498.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU032498.D (-969) (-)



#23

Bromochloromethane

Concen: 49.566 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Tgt Ion: 128 Resp: 39156

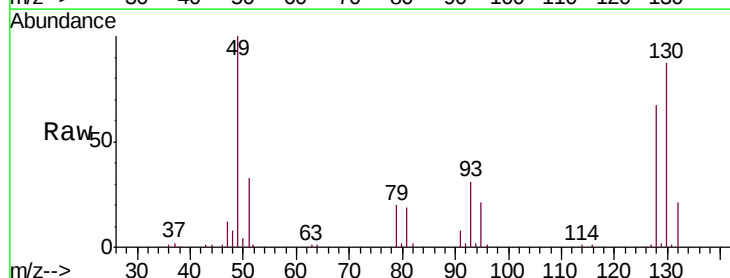
Ion Ratio Lower Upper

128 100

49 149.6 103.7 192.5

130 130.3 92.2 171.2

51 48.9 37.7 56.5

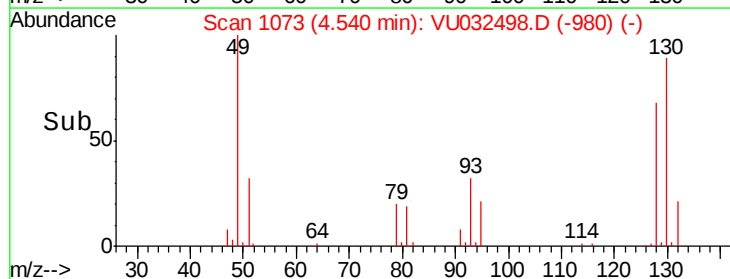
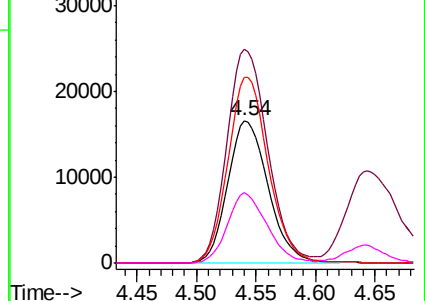


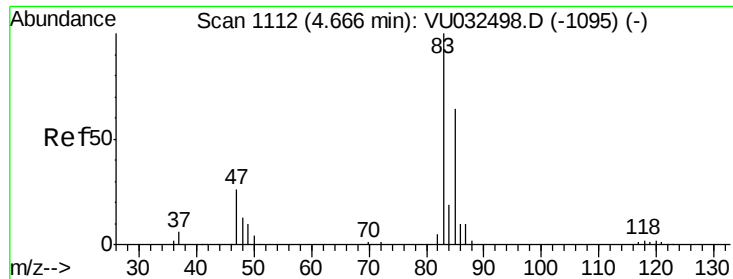
Abundance Ion 128.00 (127.70 to 128.70): VU032498.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU032498.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU032498.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU032498.D (-1059) (-)

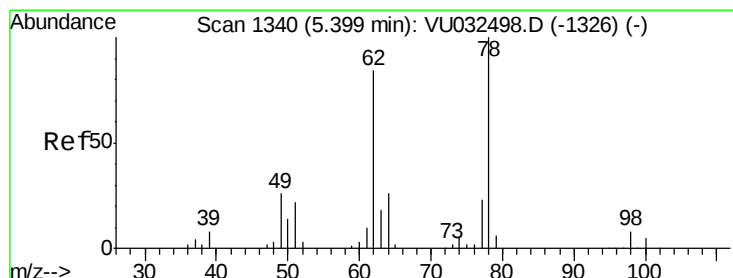
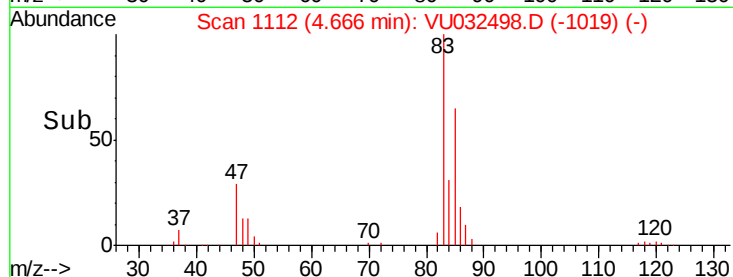
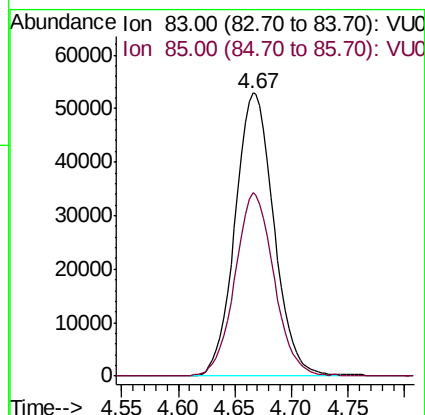
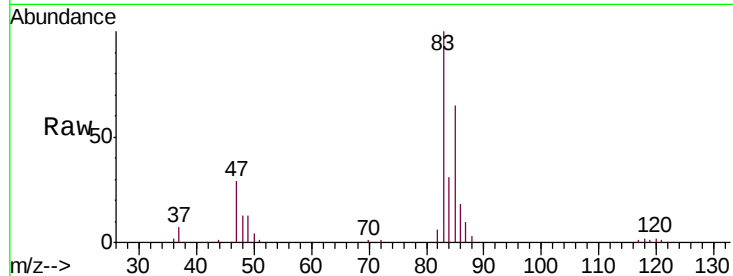




#25
Chloroform
Concen: 49.995 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

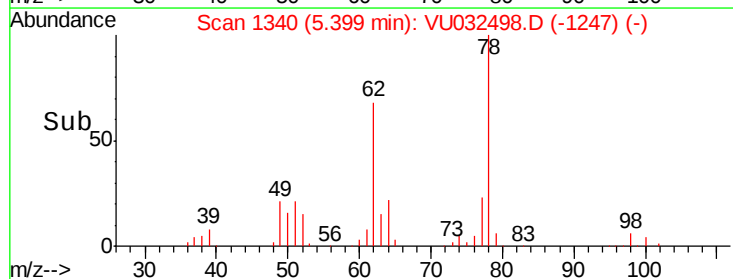
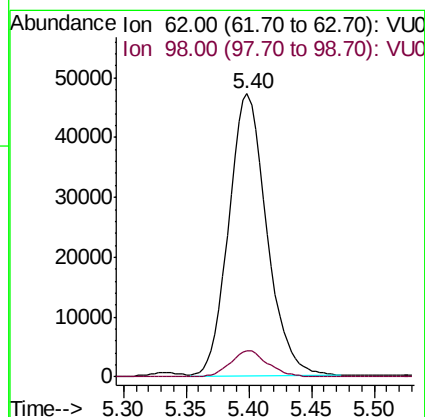
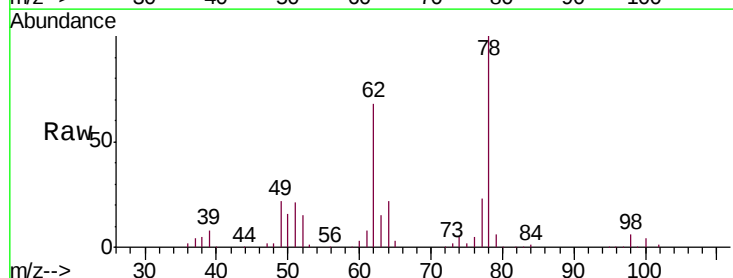
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

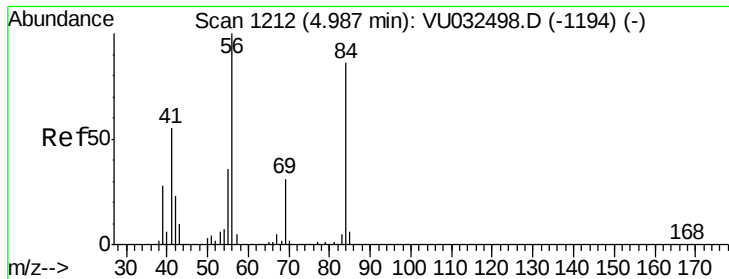
Tgt Ion: 83 Resp: 126262
Ion Ratio Lower Upper
83 100
85 64.7 44.7 82.9



#27
1,2-Dichloroethane
Concen: 49.655 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

Tgt Ion: 62 Resp: 99137
Ion Ratio Lower Upper
62 100
98 9.3 7.2 10.8

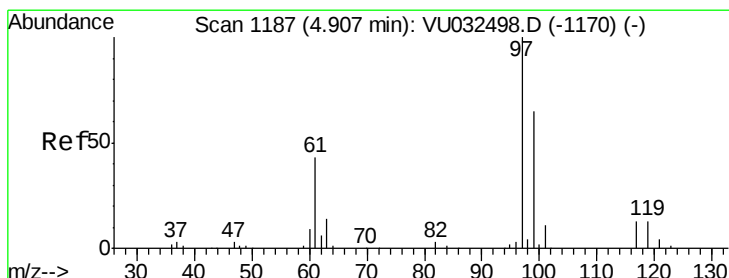
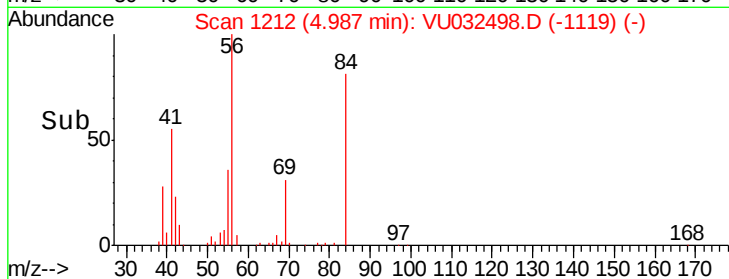
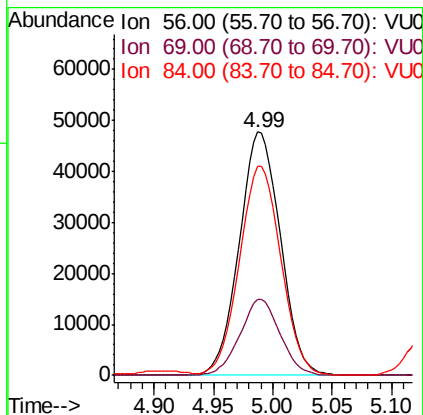
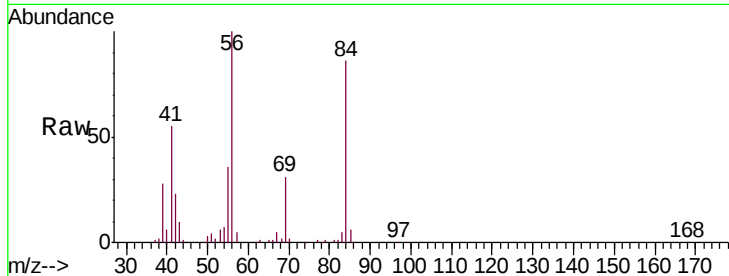




#29
Cyclohexane
Concen: 47.801 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

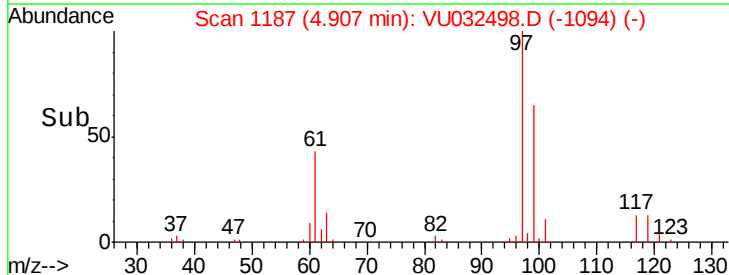
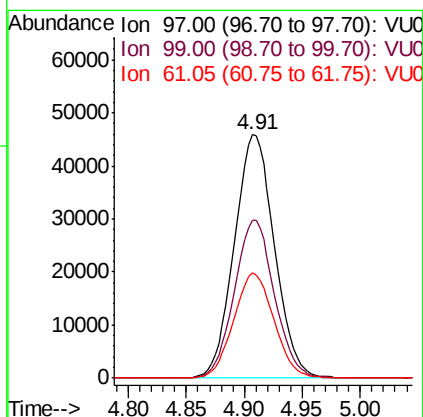
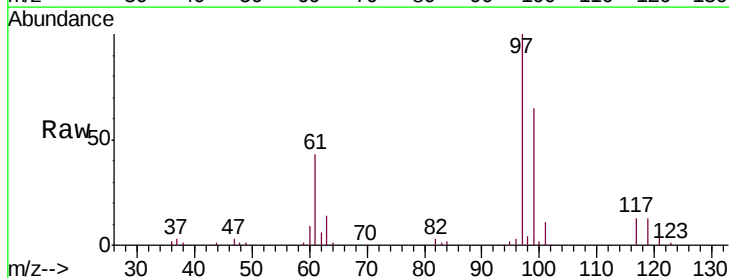
Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

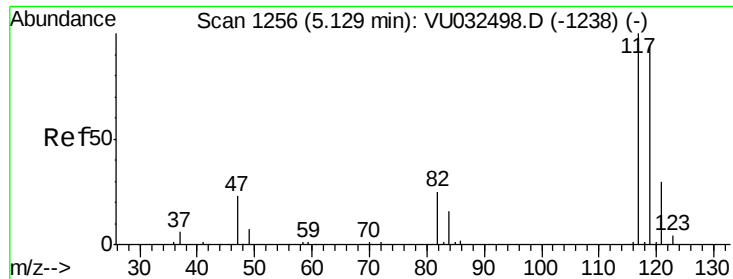
Tgt Ion: 56 Resp: 114533
Ion Ratio Lower Upper
56 100
69 30.5 24.7 37.1
84 86.6 69.0 103.4



#30
1,1,1-Trichloroethane
Concen: 48.410 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

Tgt Ion: 97 Resp: 110395
Ion Ratio Lower Upper
97 100
99 64.8 50.5 75.7
61 43.4 33.8 50.6





#31

Carbon tetrachloride

Concen: 48.353 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

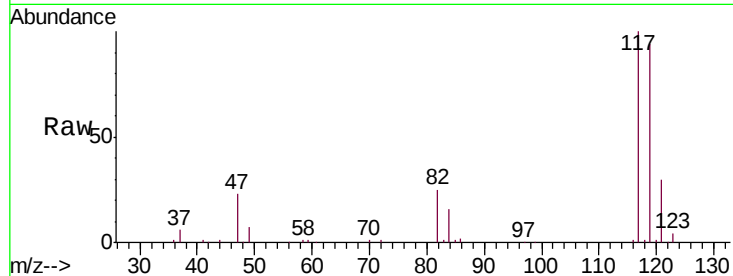
VSTD05033

Tgt Ion:117 Resp: 101061

Ion Ratio Lower Upper

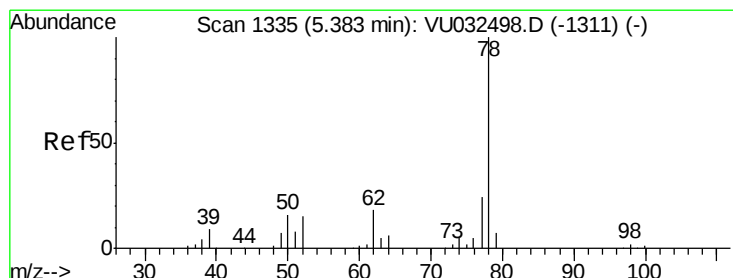
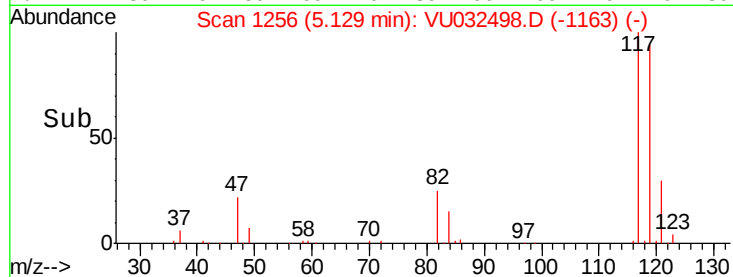
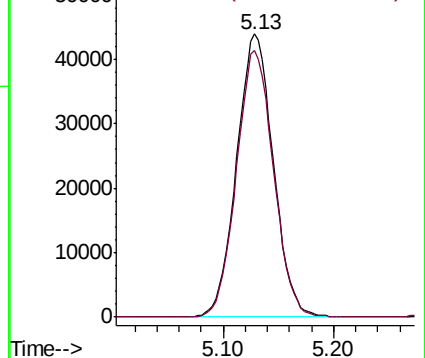
117 100

119 95.1 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.593 ug/L

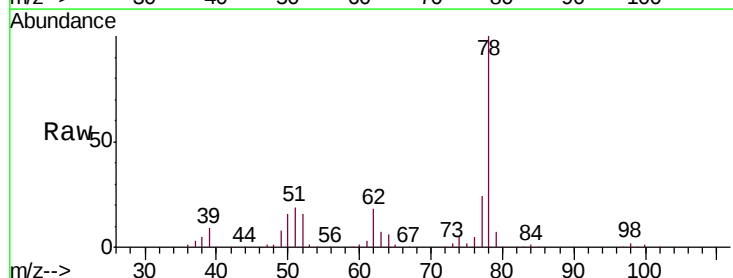
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

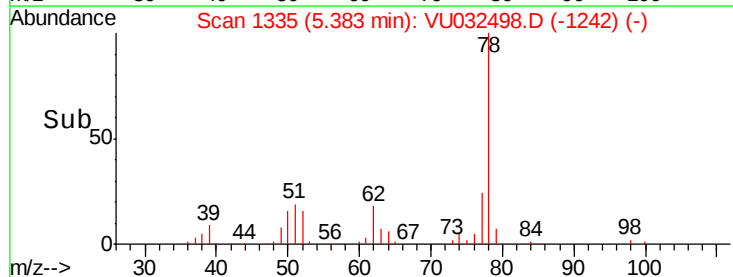
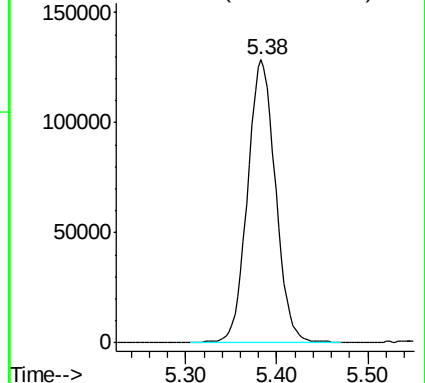
Lab File: VU032498.D

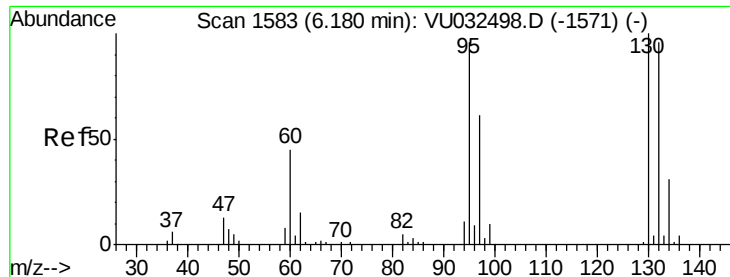
Acq: 06 Jun 2019 15:39

Tgt Ion: 78 Resp: 275032



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.559 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

Tgt Ion: 95 Resp: 73234

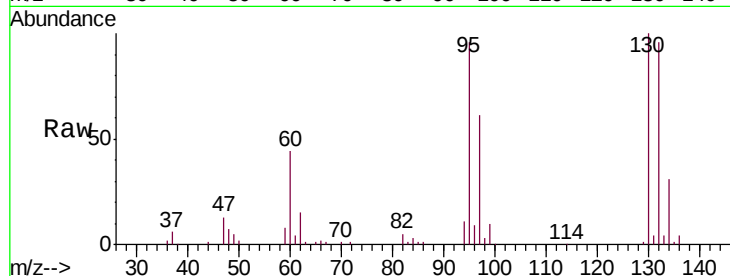
Ion Ratio Lower Upper

95 100

97 63.2 45.8 85.2

132 100.2 71.0 131.8

130 104.2 73.4 136.2

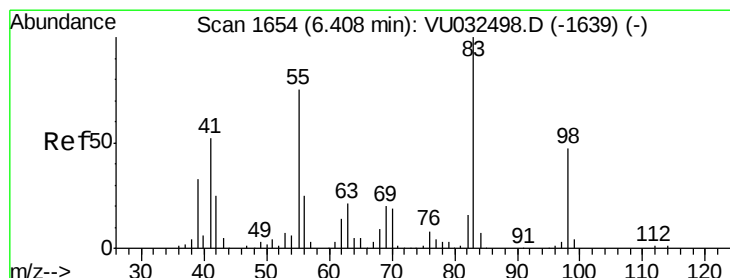
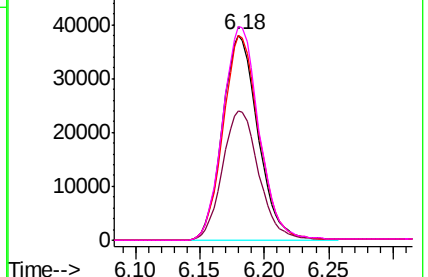
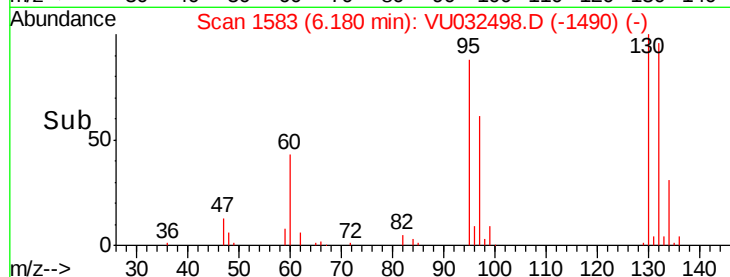


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 48.076 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

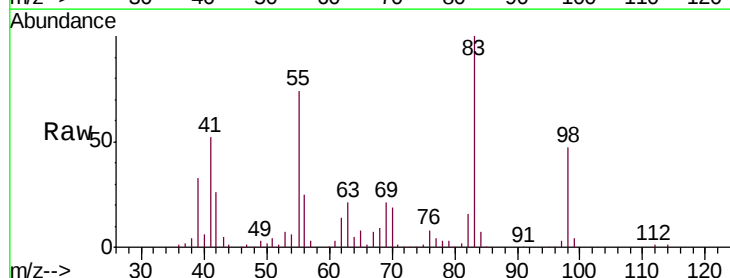
Tgt Ion: 83 Resp: 119845

Ion Ratio Lower Upper

83 100

55 73.6 60.2 90.4

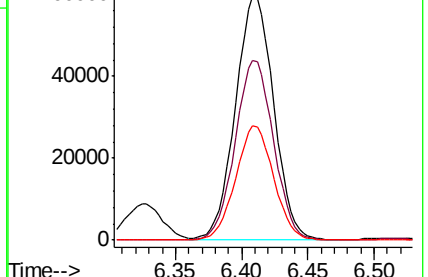
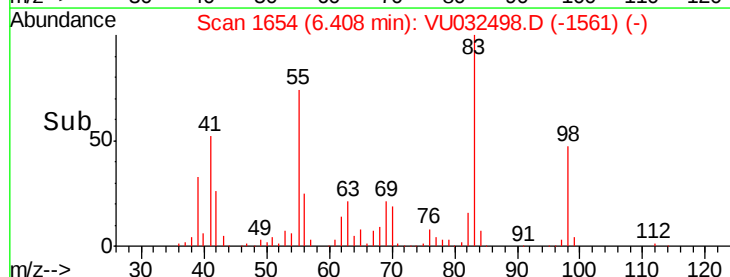
98 46.5 37.4 56.2

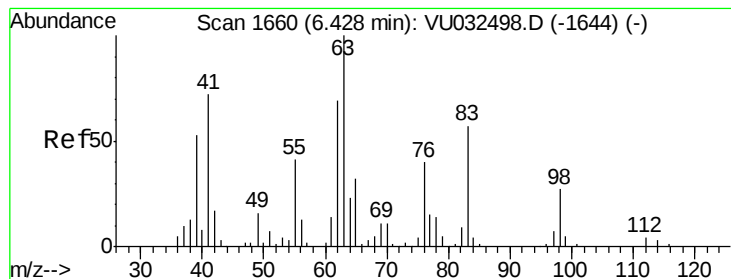


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 49.344 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

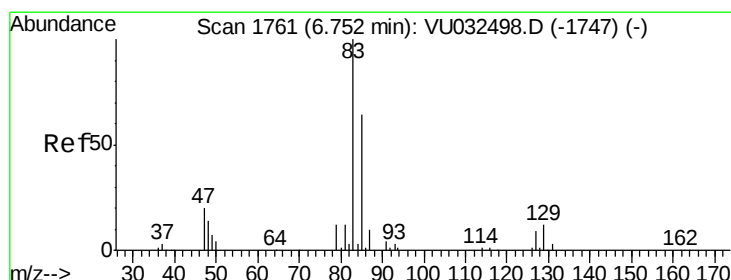
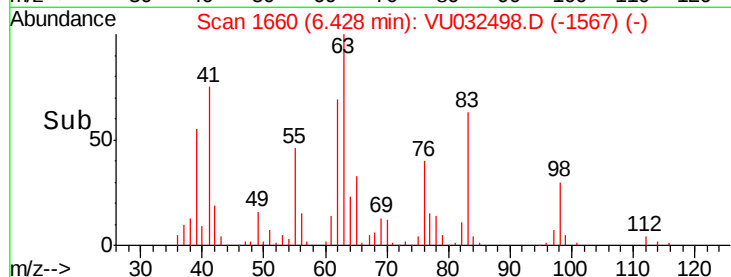
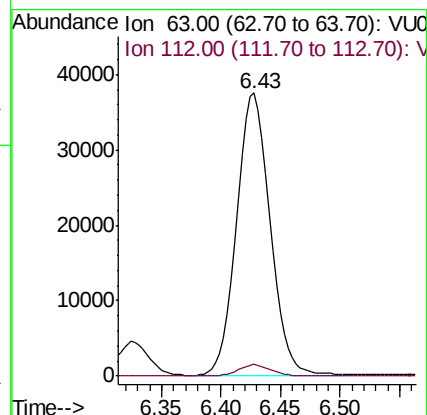
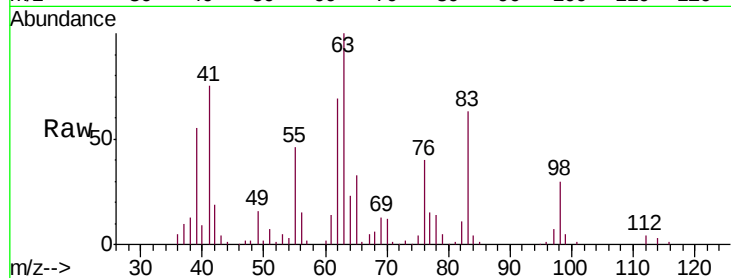
VSTD05033

Tgt Ion: 63 Resp: 74034

Ion Ratio Lower Upper

63 100

112 3.8 3.1 4.7



#38

Bromodichloromethane

Concen: 48.113 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

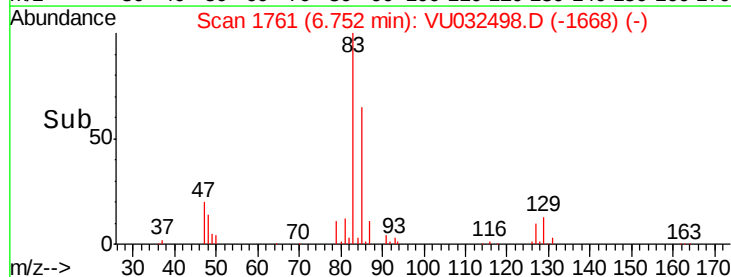
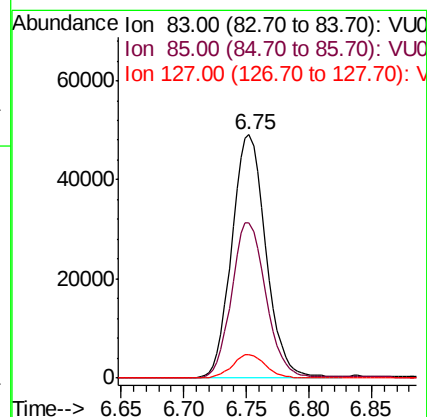
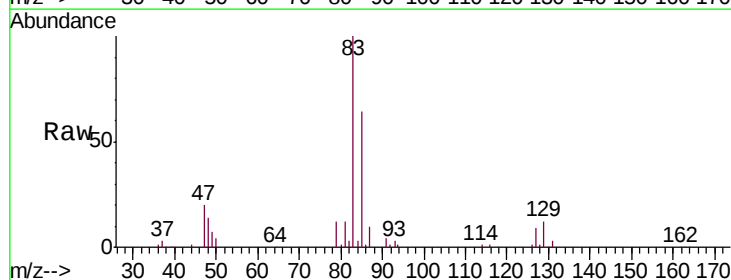
Tgt Ion: 83 Resp: 92949

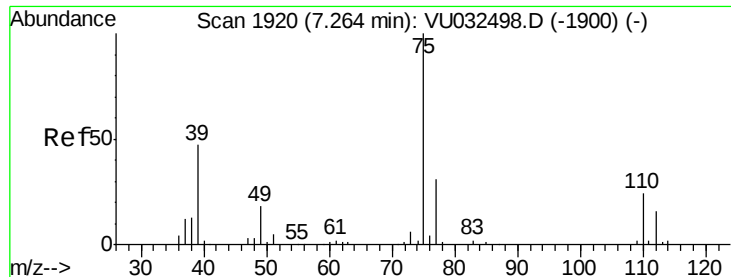
Ion Ratio Lower Upper

83 100

85 63.7 45.4 84.4

127 9.5 7.4 11.2



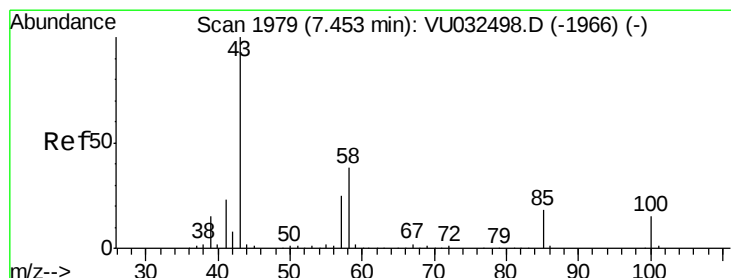
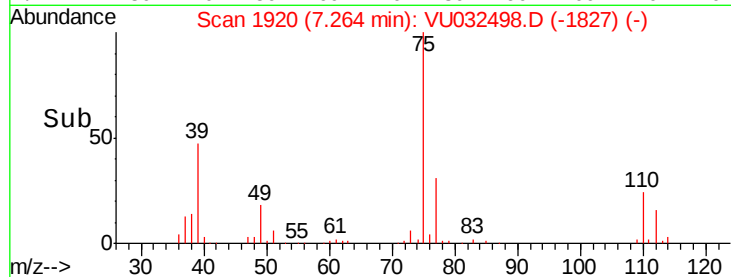
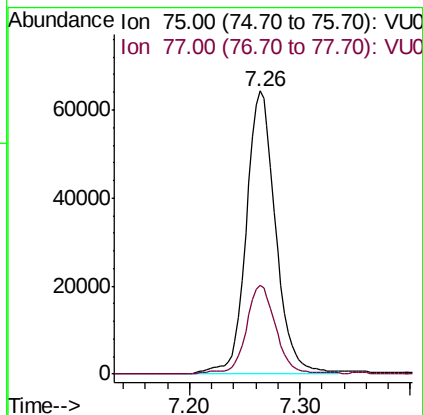
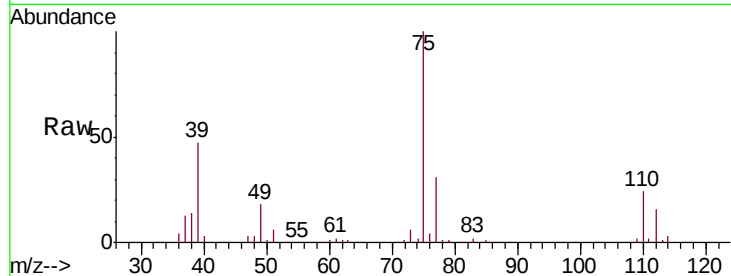


#39

cis-1,3-Dichloropropene
 Concen: 50.204 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

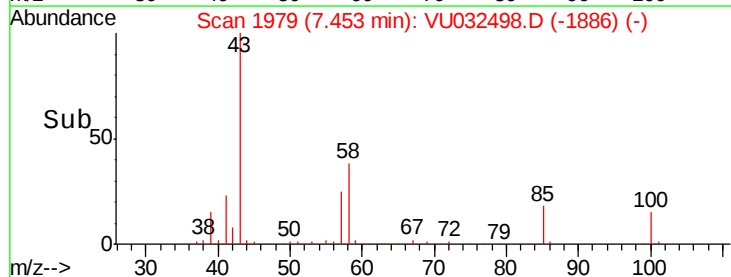
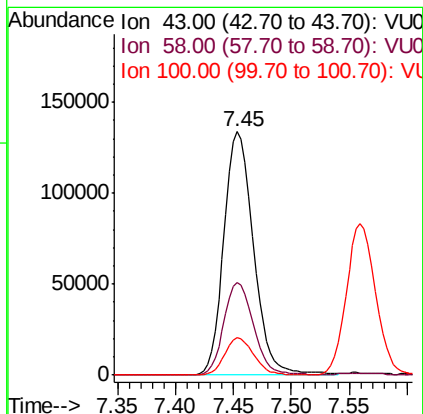
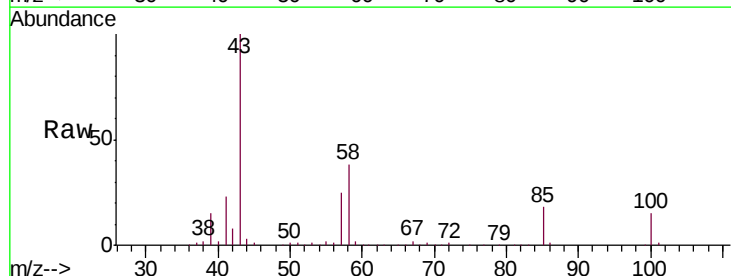
Tgt Ion: 75 Resp: 118845
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.0 41.0

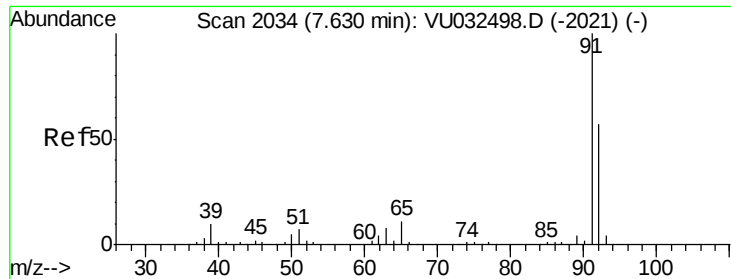


#40

4-Methyl-2-pentanone
 Concen: 98.573 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Tgt Ion: 43 Resp: 237928
 Ion Ratio Lower Upper
 43 100
 58 38.0 30.8 46.2
 100 14.9 12.1 18.1





#42

Toluene

Concen: 48.613 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

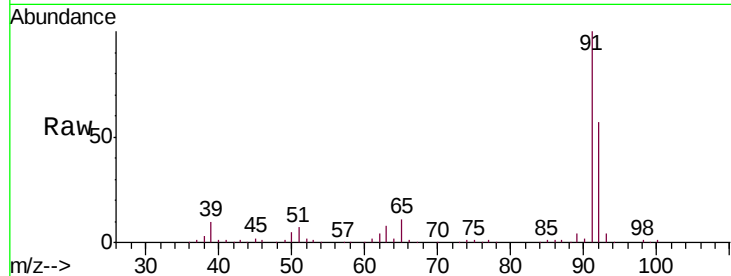
VSTD05033

Tgt Ion: 91 Resp: 301328

Ion Ratio Lower Upper

91 100

92 57.3 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032498.D (-2021) (-)

Ion 92.00 (91.70 to 92.70): VU032498.D (-2021) (-)

7.63

200000

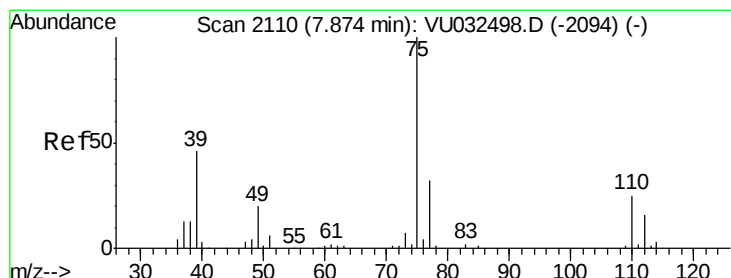
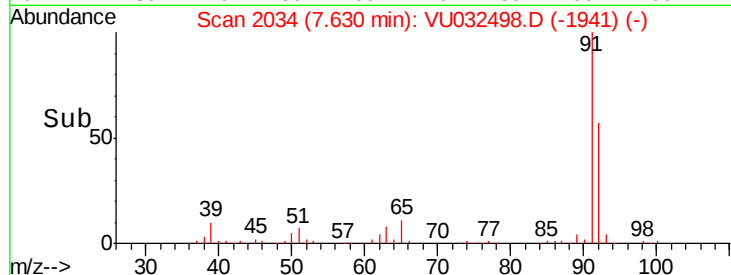
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 49.558 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032498.D

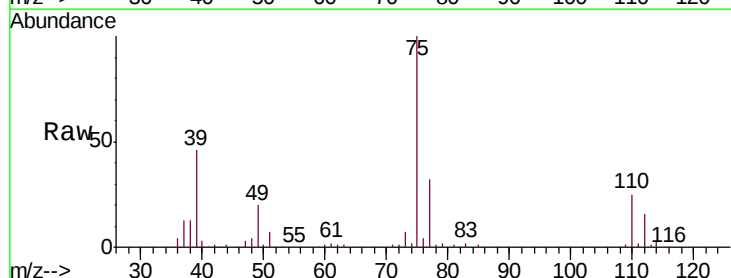
Acq: 06 Jun 2019 15:39

Tgt Ion: 75 Resp: 104128

Ion Ratio Lower Upper

75 100

77 31.9 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU032498.D (-2094) (-)

Ion 77.00 (76.70 to 77.70): VU032498.D (-2094) (-)

7.87

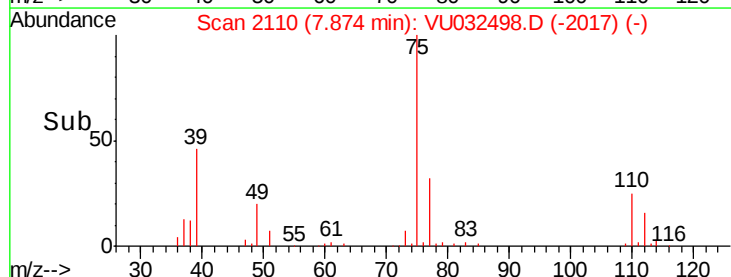
60000

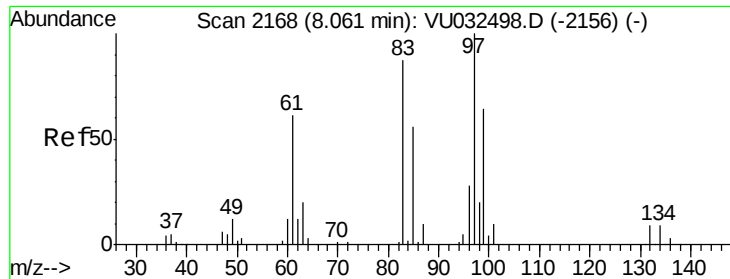
40000

20000

0

Time-->

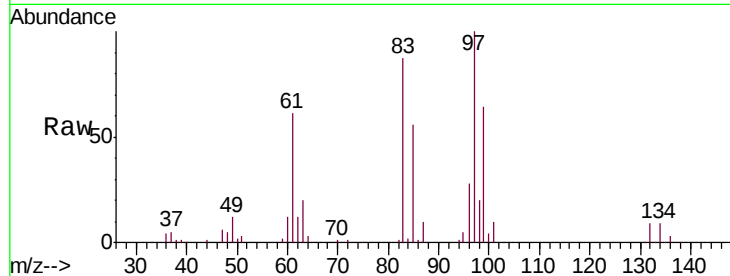




#45
 1,1,2-Trichloroethane
 Concen: 49.118 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

Tgt Ion:	97	Resp:	69689
Ion	Ratio	Lower	Upper
97	100		
99	63.5	44.1	81.9
83	87.0	59.4	110.2
85	55.8	39.1	72.7



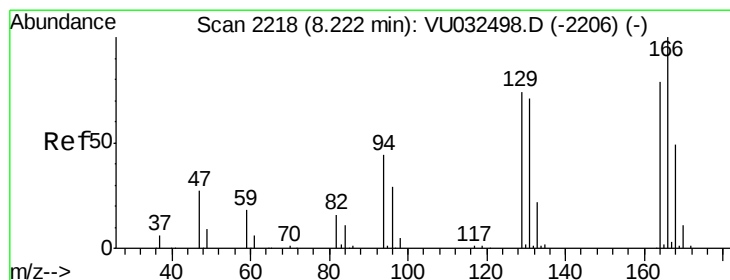
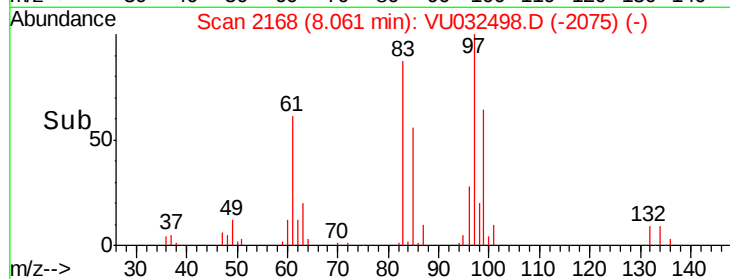
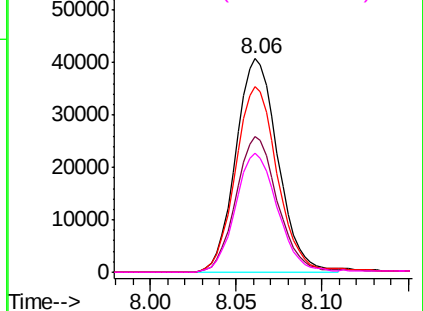
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

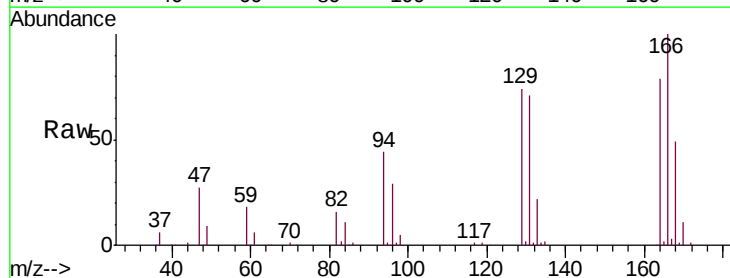
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 49.275 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Tgt Ion:	164	Resp:	62668
Ion	Ratio	Lower	Upper
164	100		
129	94.5	65.3	121.3
131	90.0	64.0	119.0
166	127.2	88.8	165.0



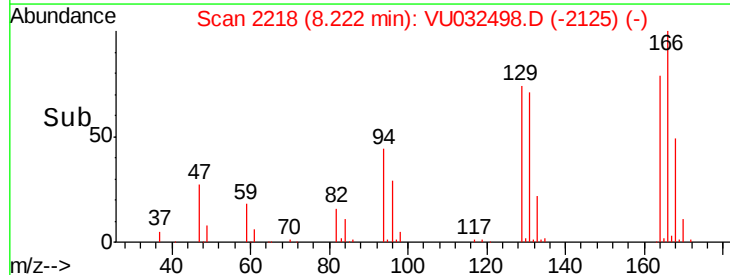
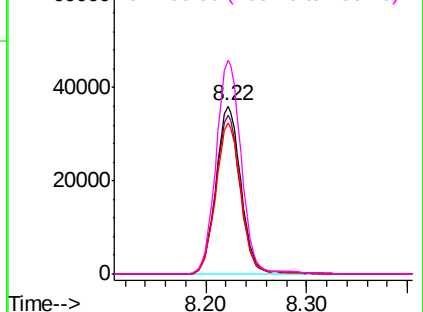
Abundance

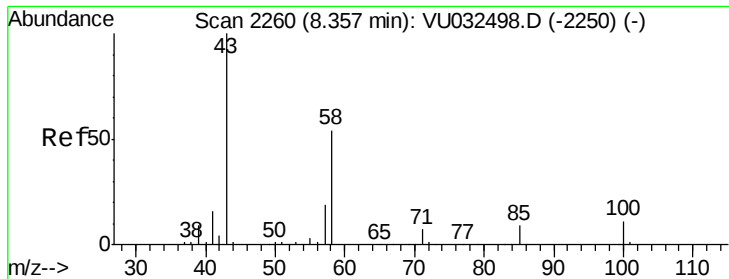
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

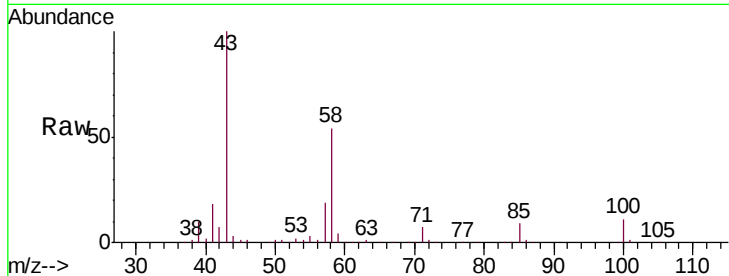




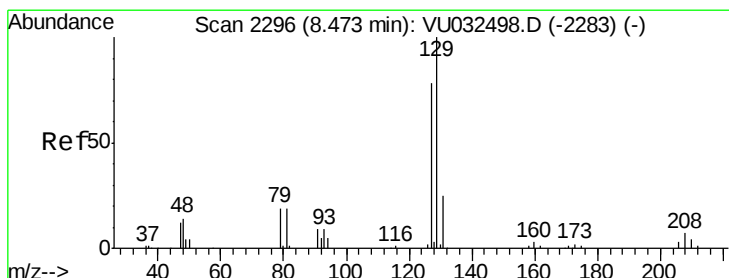
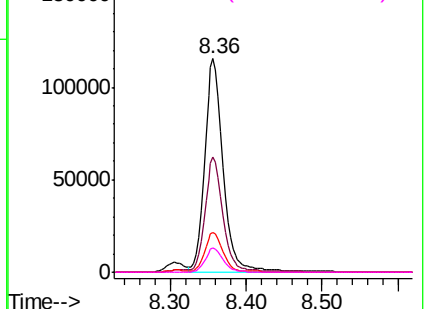
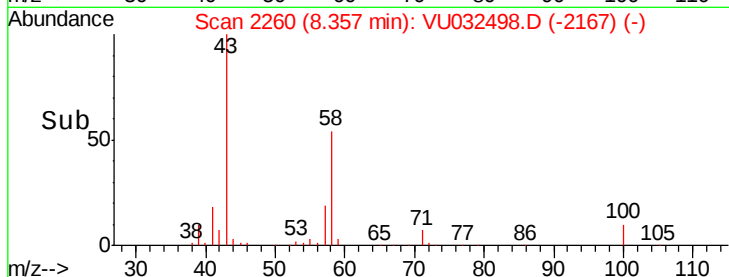
#48
2-Hexanone
Concen: 98.353 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Tgt Ion: 43 Resp: 194986
Ion Ratio Lower Upper
43 100
58 51.8 42.0 63.0
57 18.4 14.6 22.0
100 11.0 9.2 13.8

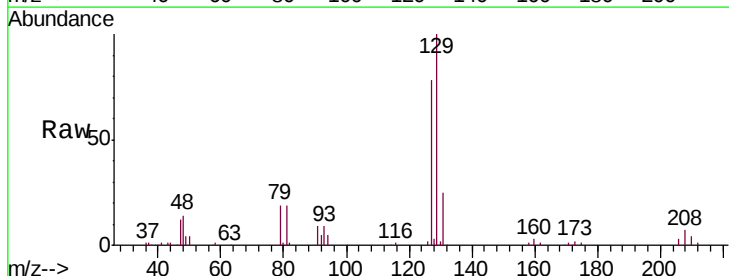


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

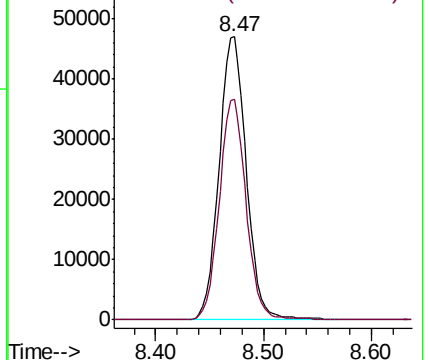
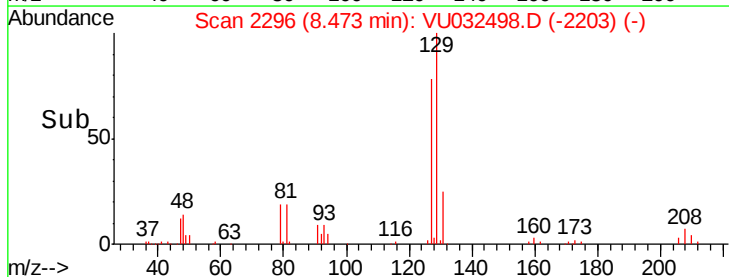


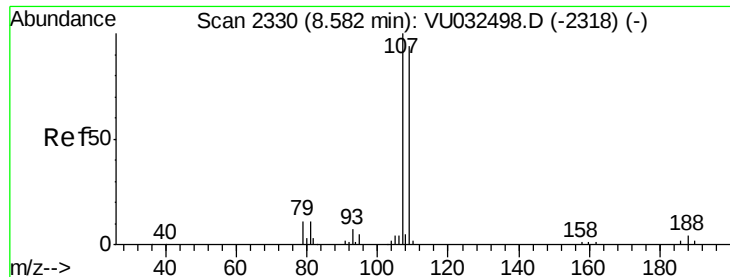
#49
Dibromochloromethane
Concen: 50.080 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

Tgt Ion: 129 Resp: 82588
Ion Ratio Lower Upper
129 100
127 77.8 53.6 99.6



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

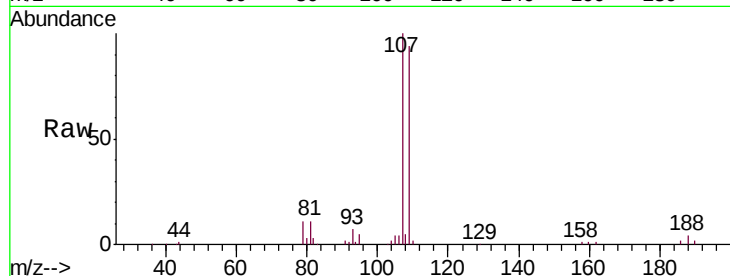




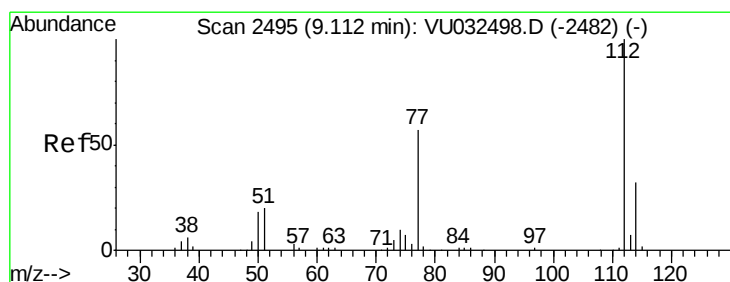
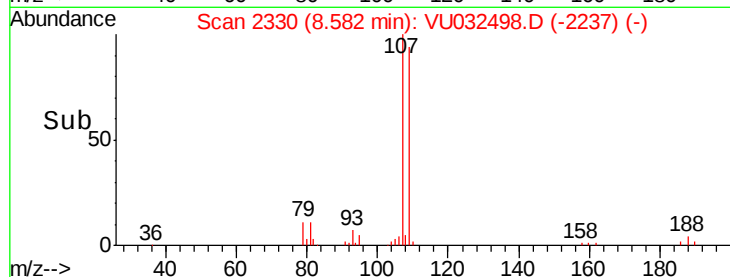
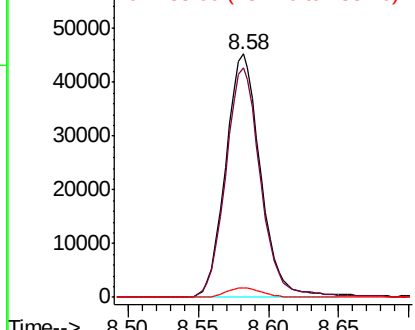
#50
1,2-Dibromoethane
Concen: 48.951 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD05033

Tgt Ion:107 Resp: 78174
Ion Ratio Lower Upper
107 100
109 94.5 66.8 124.0
188 3.9 3.1 4.7

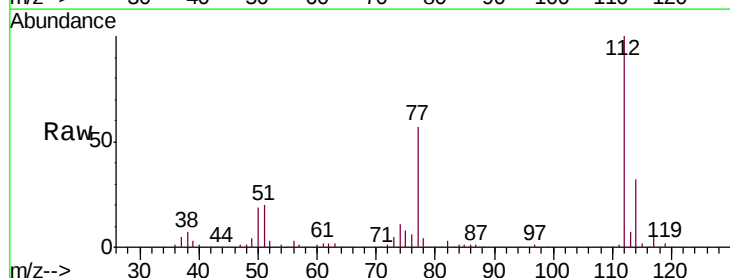


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

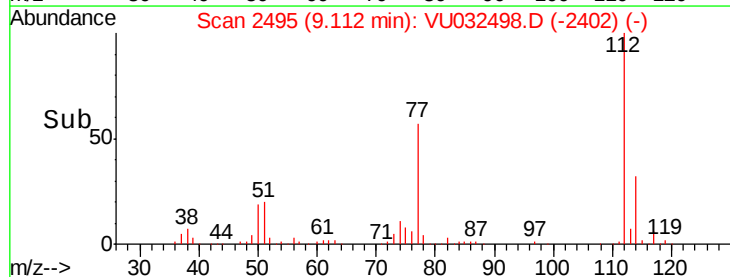
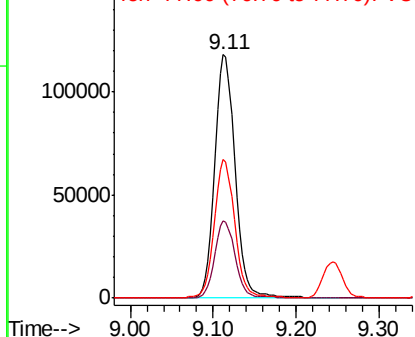


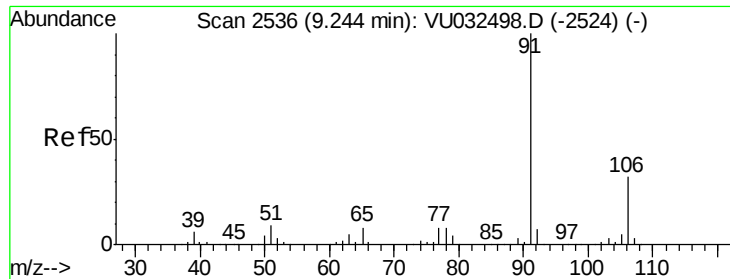
#51
Chlorobenzene
Concen: 50.629 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. 0.00 min
Lab File: VU032498.D
Acq: 06 Jun 2019 15:39

Tgt Ion:112 Resp: 202186
Ion Ratio Lower Upper
112 100
114 31.6 22.6 42.0
77 57.0 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 49.100 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

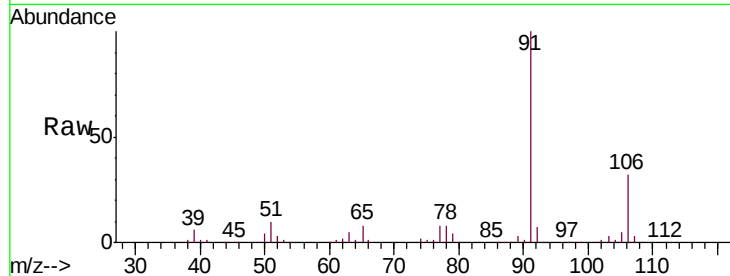
VSTD05033

Tgt Ion: 91 Resp: 339243

Ion Ratio Lower Upper

91 100

106 32.0 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU032498.D (-2524) (-)

Ion 106.00 (105.70 to 106.70): VU032498.D (-2443) (-)

250000

200000

150000

100000

50000

0

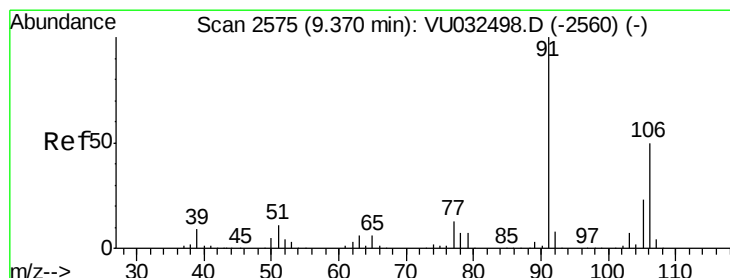
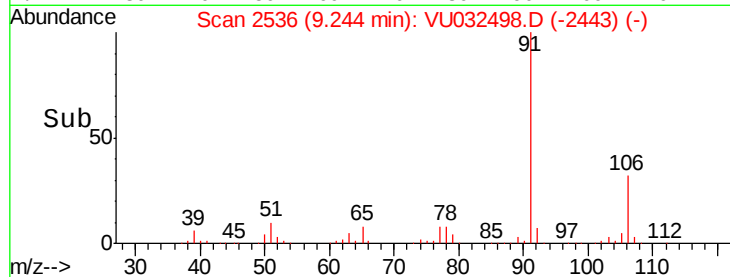
9.24

9.25

9.30

9.35

Time-->



#53

m,p-Xylene

Concen: 48.737 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032498.D

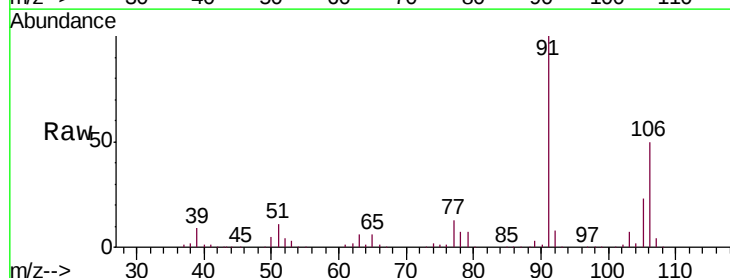
Acq: 06 Jun 2019 15:39

Tgt Ion: 106 Resp: 128045

Ion Ratio Lower Upper

106 100

91 201.6 141.7 263.1



Abundance Ion 106.00 (105.70 to 106.70): VU032498.D (-2560) (-)

Ion 91.00 (90.70 to 91.70): VU032498.D (-2482) (-)

150000

100000

50000

0

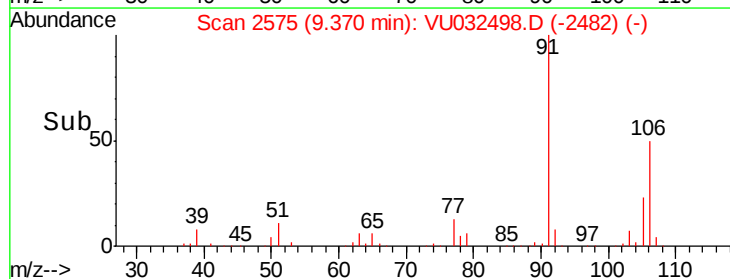
9.37

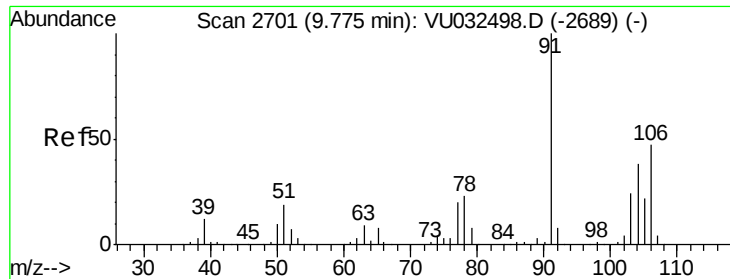
9.38

9.40

9.45

Time-->





#54

o-xylene

Concen: 48.710 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

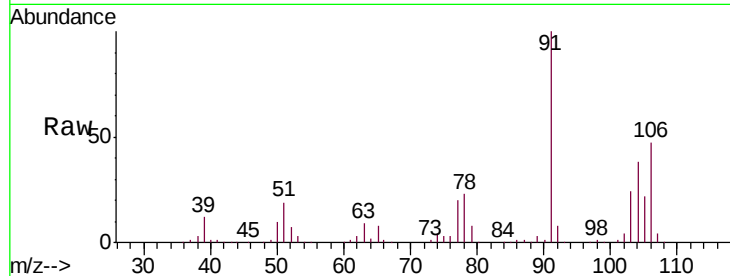
VSTD05033

Tgt Ion:106 Resp: 127062

Ion Ratio Lower Upper

106 100

91 213.2 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

200000

150000

100000

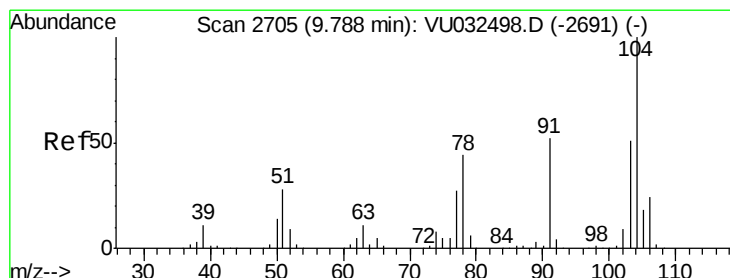
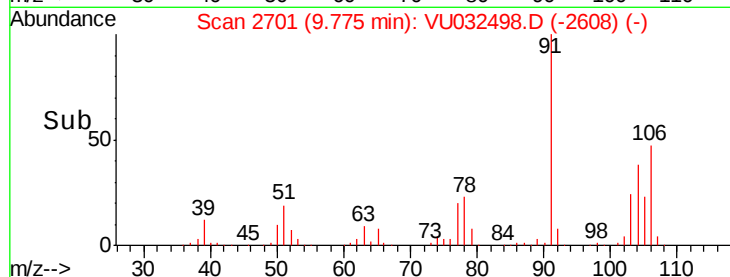
50000

0

9.77

9.75 9.80 9.85 9.90

Time-->



#55

Styrene

Concen: 50.035 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032498.D

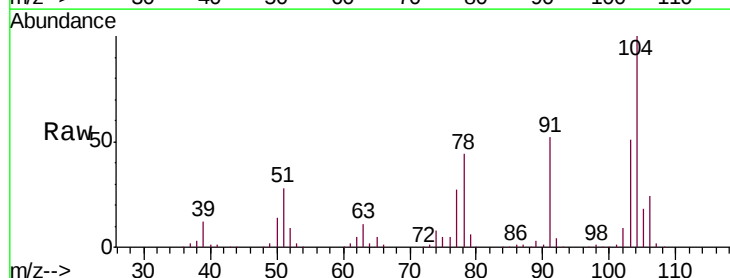
Acq: 06 Jun 2019 15:39

Tgt Ion:104 Resp: 217892

Ion Ratio Lower Upper

104 100

78 43.7 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

150000

100000

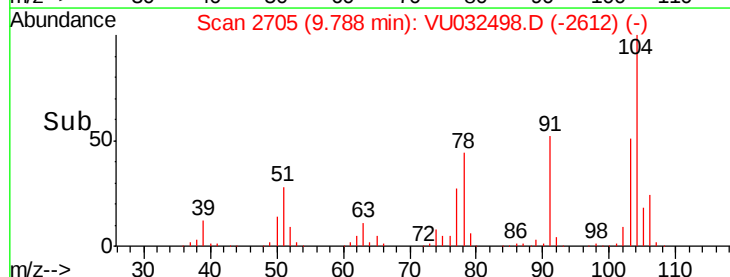
50000

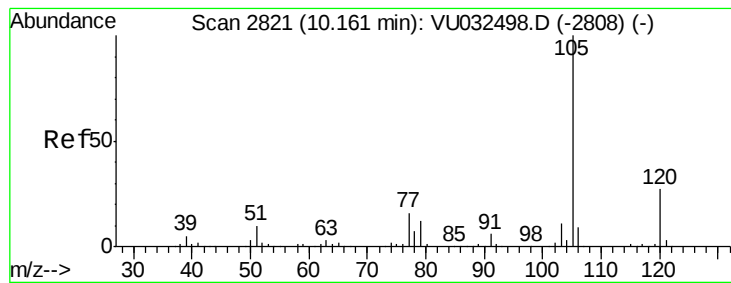
0

9.79

9.75 9.80 9.85 9.90

Time-->





#56

Isopropylbenzene

Concen: 48.868 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampled :

VSTD05033

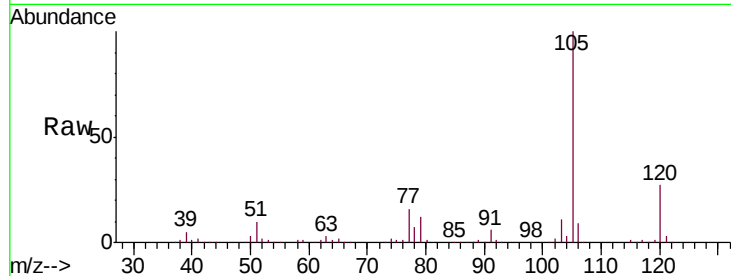
Tgt Ion: 105 Resp: 336139

Ion Ratio Lower Upper

105 100

120 26.9 21.6 32.4

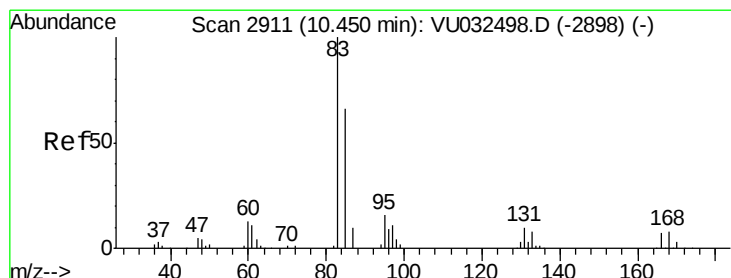
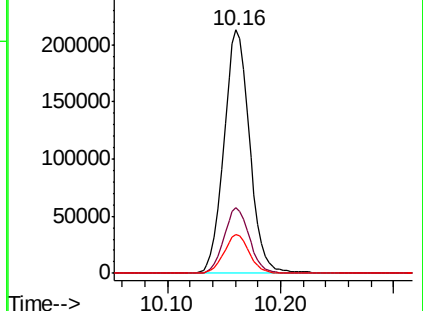
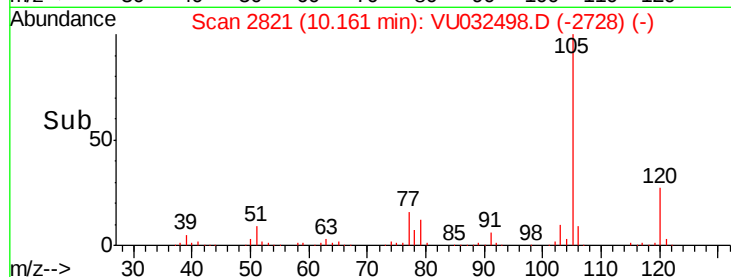
77 15.8 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.485 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

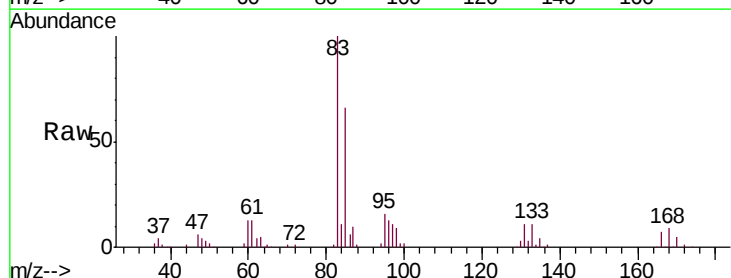
Tgt Ion: 83 Resp: 119997

Ion Ratio Lower Upper

83 100

85 66.0 45.1 83.7

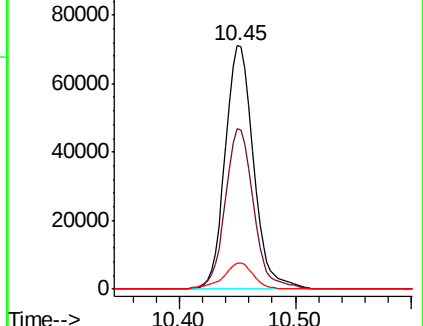
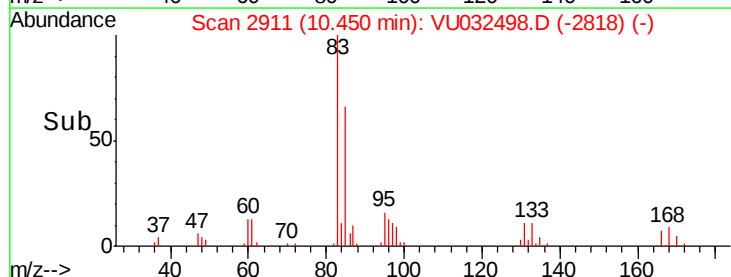
131 10.7 7.9 11.9

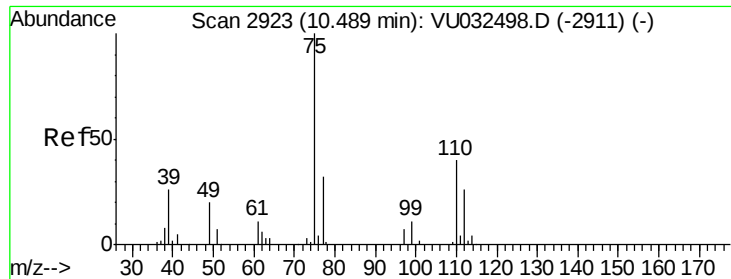


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

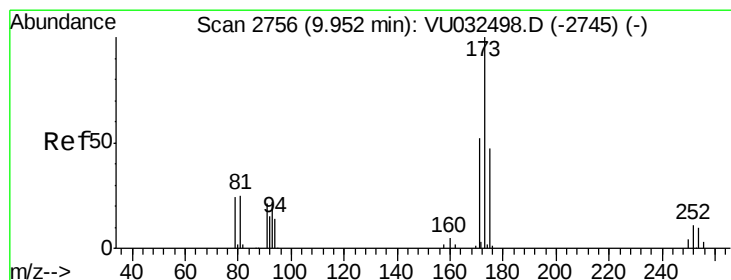
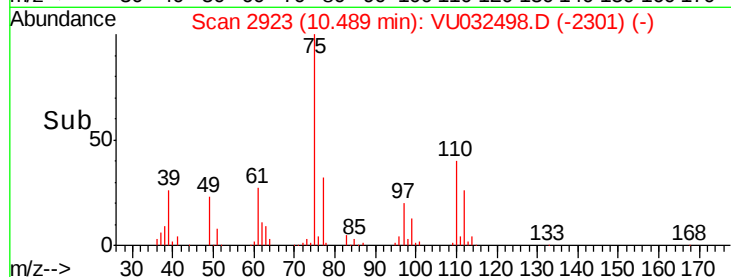
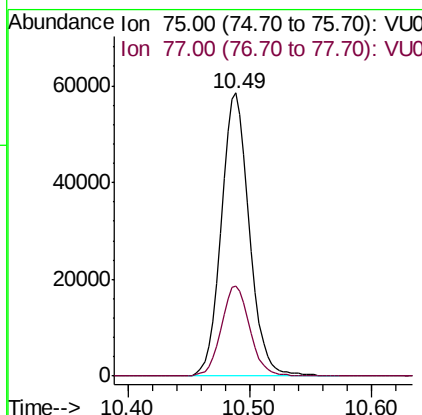
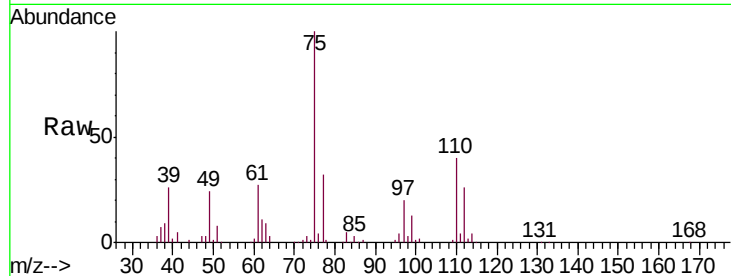




#59
 1,2,3-Trichloropropane
 Concen: 48.516 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

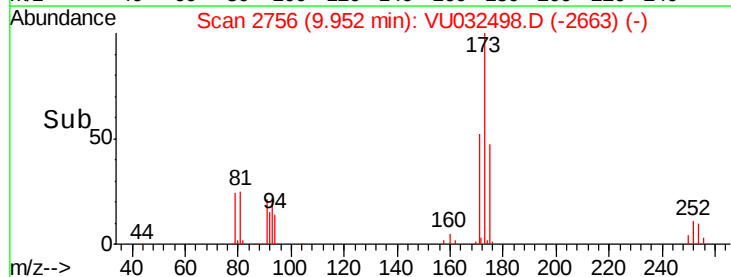
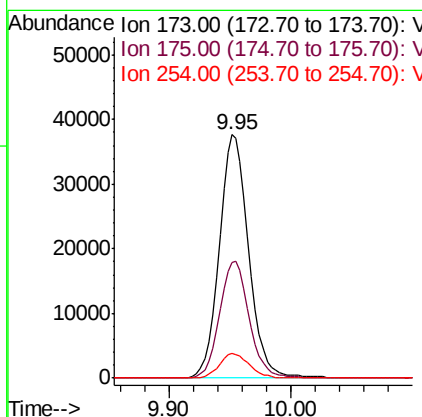
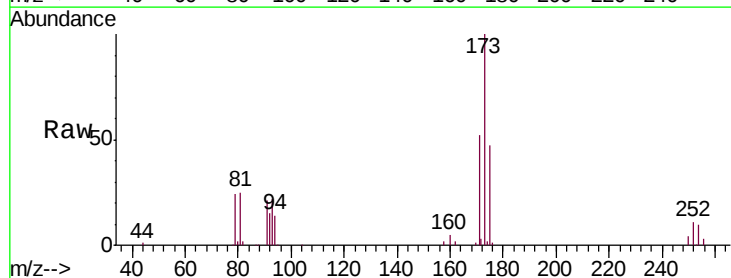
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

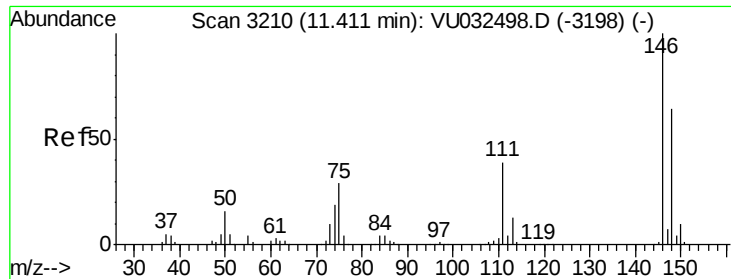
Tgt Ion: 75 Resp: 94627
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.6 38.4



#61
 Bromoform
 Concen: 49.560 ug/L
 RT: 9.95 min Scan# 2756
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Tgt Ion: 173 Resp: 63420
 Ion Ratio Lower Upper
 173 100
 175 48.3 39.7 59.5
 254 10.2 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 50.532 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

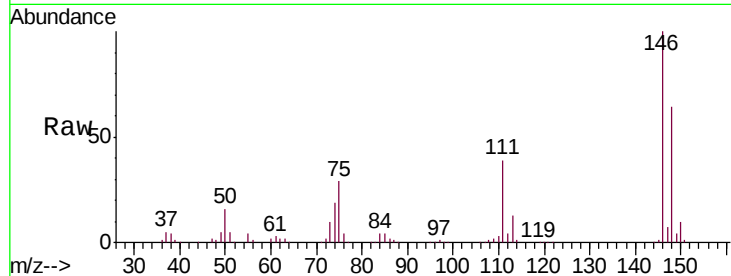
Tgt Ion:146 Resp: 164089

Ion Ratio Lower Upper

146 100

111 39.3 27.3 50.7

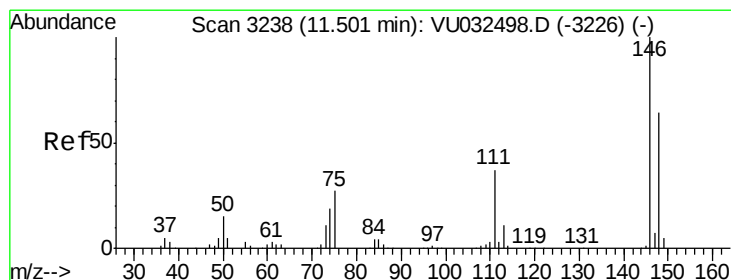
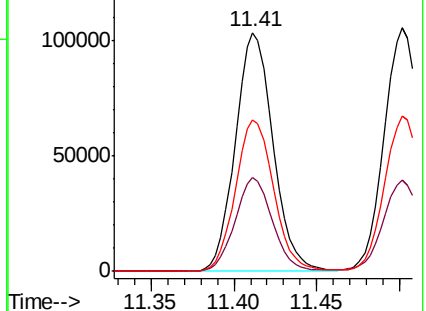
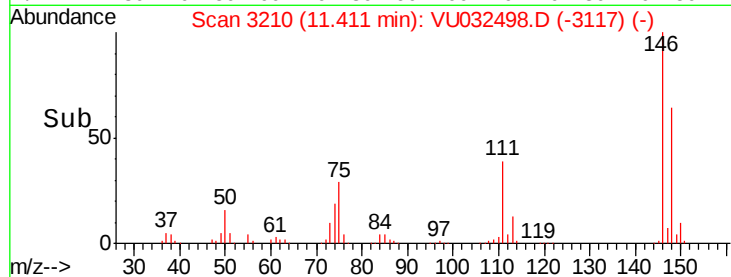
148 63.7 44.4 82.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.867 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

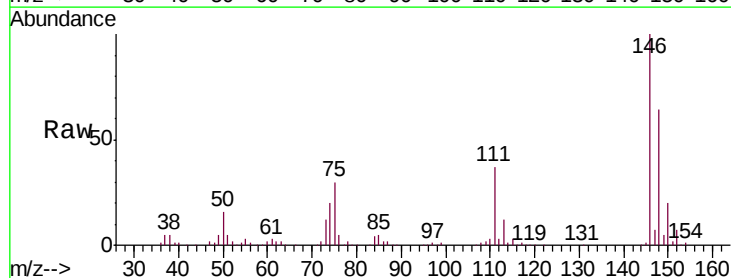
Tgt Ion:146 Resp: 168869

Ion Ratio Lower Upper

146 100

111 37.3 26.6 49.4

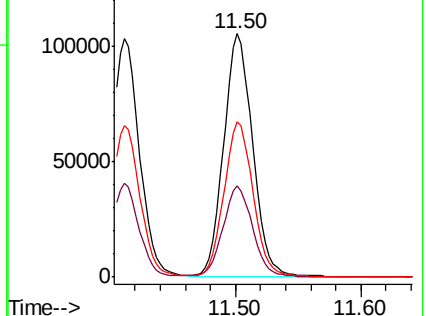
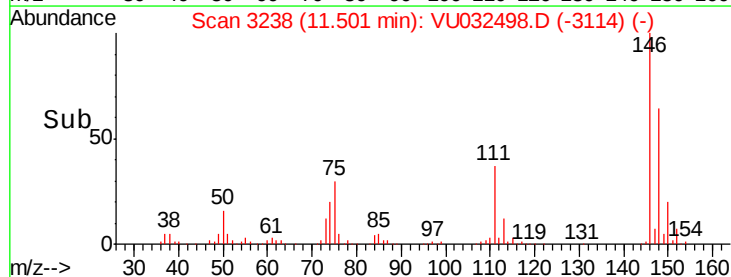
148 63.8 44.9 83.5

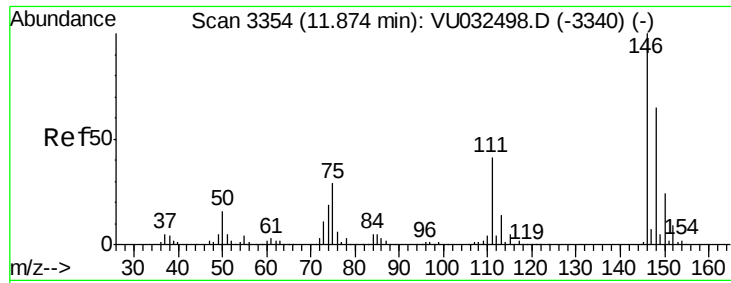


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.742 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

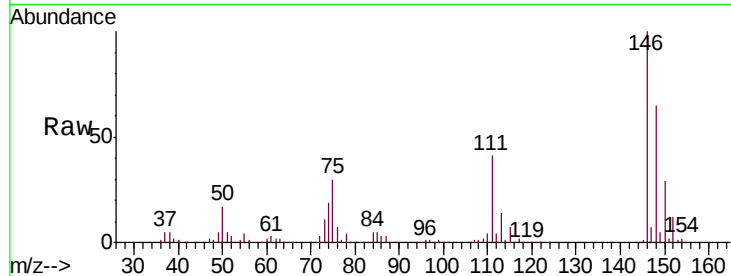
Tgt Ion:146 Resp: 169868

Ion Ratio Lower Upper

146 100

111 40.5 32.6 48.8

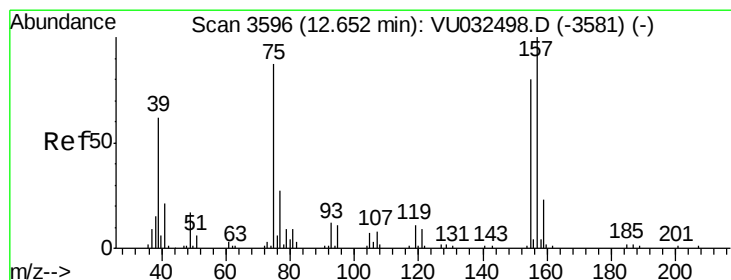
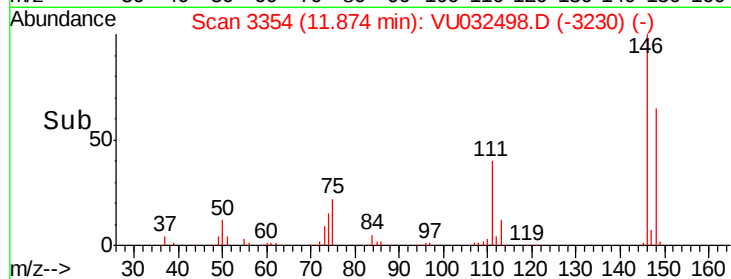
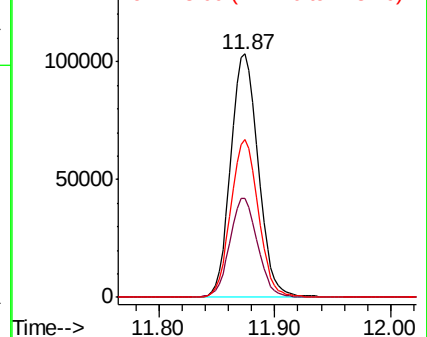
148 65.0 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 50.846 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

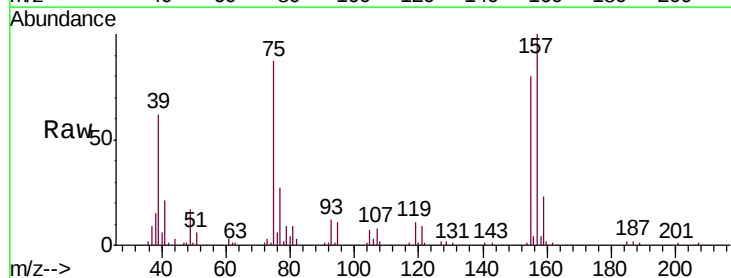
Tgt Ion: 75 Resp: 28085

Ion Ratio Lower Upper

75 100

155 93.0 73.1 109.7

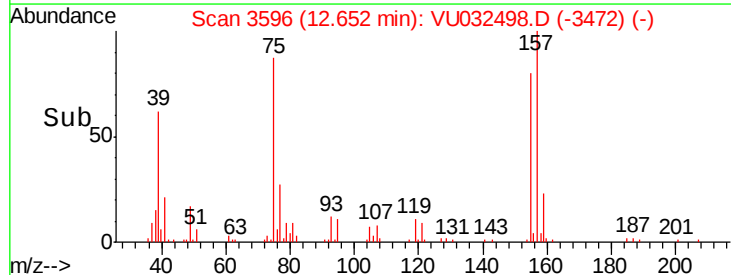
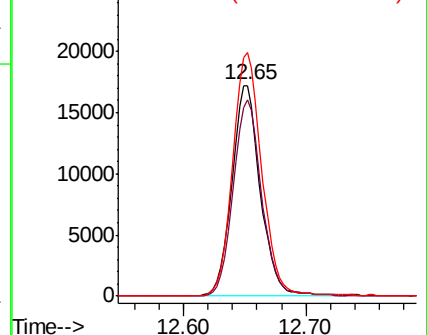
157 115.6 91.4 137.2

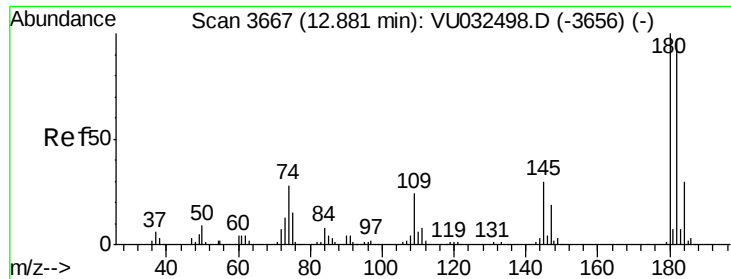


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

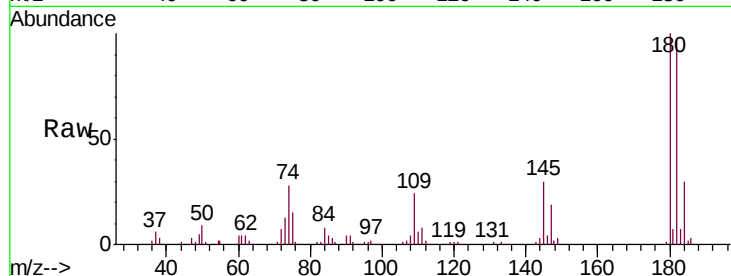




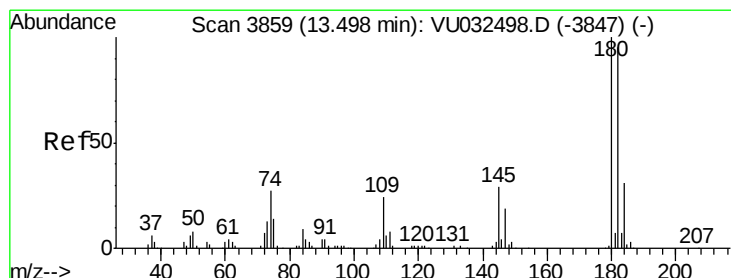
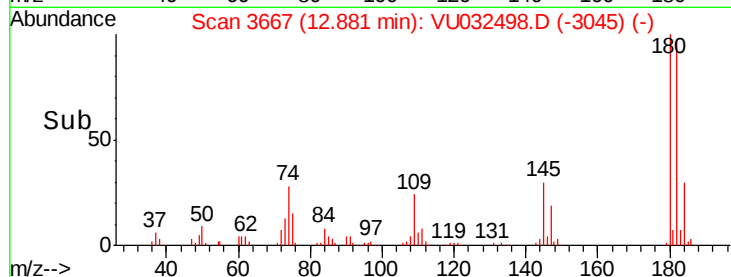
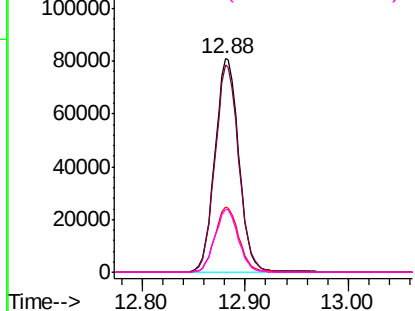
#67
 1,3,5-Trichlorobenzene
 Concen: 51.653 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05033

Tgt Ion:	180	Resp:	130496
Ion	Ratio	Lower	Upper
180	100		
182	96.5	78.2	117.4
184	30.6	24.2	36.2
145	28.8	23.9	35.9

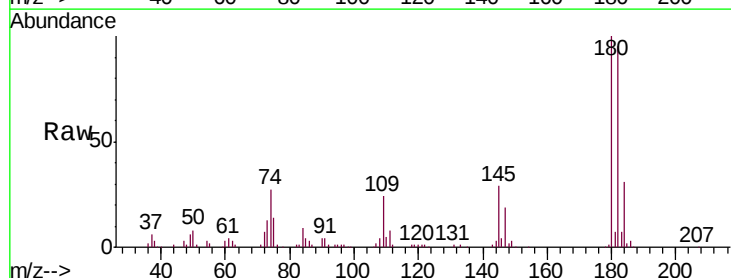


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

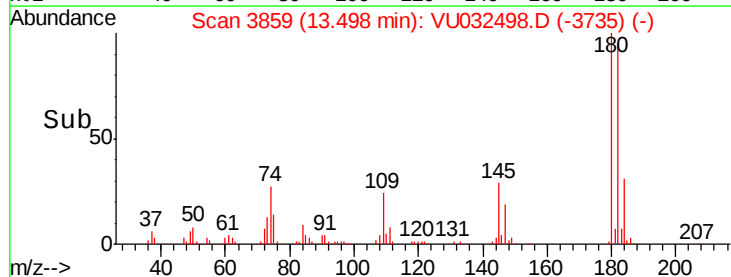
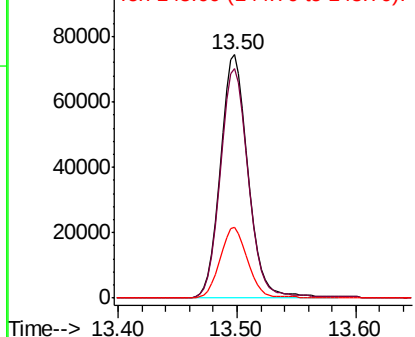


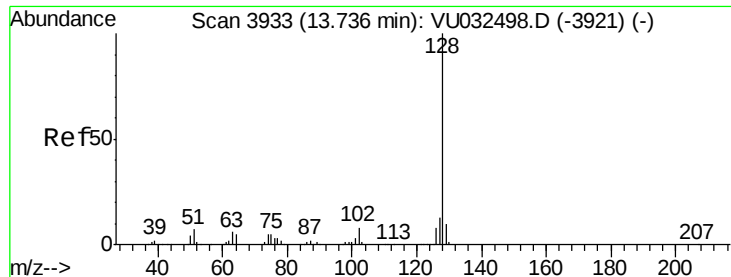
#68
 1,2,4-trichlorobenzene
 Concen: 56.212 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032498.D
 Acq: 06 Jun 2019 15:39

Tgt Ion:	180	Resp:	120311
Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.5	114.7
145	29.1	23.8	35.6



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





#69

Naphthalene

Concen: 53.877 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05033

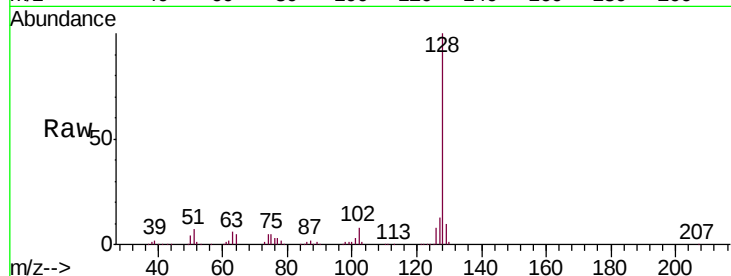
Tgt Ion:128 Resp: 363725

Ion Ratio Lower Upper

128 100

127 12.5 10.4 15.6

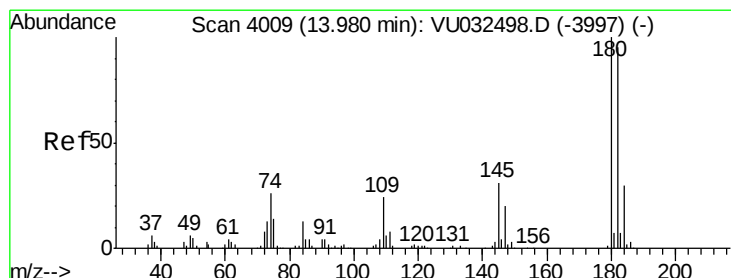
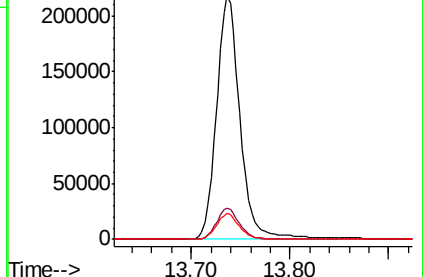
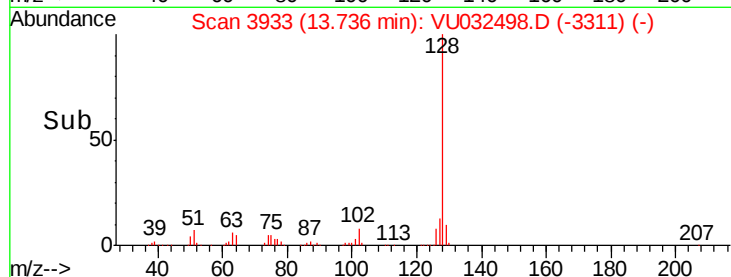
129 10.5 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 54.079 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. 0.00 min

Lab File: VU032498.D

Acq: 06 Jun 2019 15:39

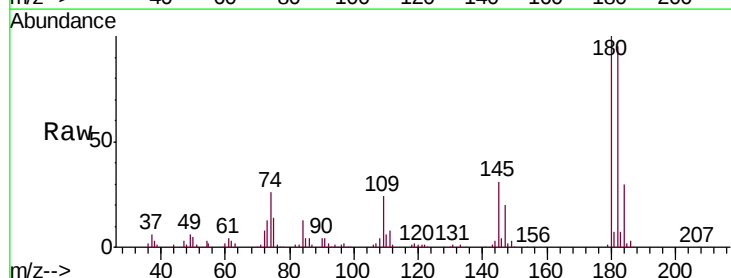
Tgt Ion:180 Resp: 120460

Ion Ratio Lower Upper

180 100

182 95.9 76.7 115.1

145 30.7 25.4 38.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

