

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017062.D
 Acq On : 23 Jun 2020 18:33
 Operator : SY/MD
 Sample : L3093-02
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 ETTN1

Quant Time: Jun 24 05:07:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 24 05:01:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	168661	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	165942	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	81330	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	40835	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.58	69	33393	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	2.12	63	65195	3.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.60%
20) 2-Butanone-d5	3.95	46	132988	51.55	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.10%
24) Chloroform-d	4.38	84	105592	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.06	65	58928	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.07	84	203671	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.09	67	61874	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.00%
41) Toluene-d8	7.34	98	184828	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
45) trans-1,3-Dichloropropene-	7.64	79	23314	4.34	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.80%
48) 2-Hexanone-d5	8.11	63	84761	41.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.88%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	43654	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	75826	5.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	14439	1.305	ug/L	97
8) Chloroethane	1.54	64	42253	6.908	ug/L #	52
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	730	0.082	ug/L #	24
12) 1,1-Dichloroethene	2.13	96	1176	0.145	ug/L #	1
13) Acetone	2.23	43	3379	2.591	ug/L	54
14) Carbon disulfide	2.31	76	2588	0.107	ug/L #	57
16) Methylene chloride	2.51	84	967	0.112	ug/L	90
18) trans-1,2-Dichloroethene	2.78	96	3947	0.460	ug/L	96
19) 1,1-Dichloroethane	3.21	63	15799	0.820	ug/L	93
22) cis-1,2-Dichloroethene	3.94	96	31474	2.683	ug/L	96
25) Chloroform	4.41	83	2687	0.128	ug/L	89
33) Benzene	5.13	78	4431	0.102	ug/L	100
34) Trichloroethene	5.94	95	14328	1.126	ug/L	97
35) Methylcyclohexane	6.09	83	15736	0.795	ug/L #	18
42) Toluene	7.41	91	6911	0.137	ug/L	88
43) 1,3,5-Trimethylbenzene	10.57	105	1516	0.034	ug/L	99
44) 1,2,4-Trimethylbenzene	10.94	105	2556	0.056	ug/L	100

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 24 05:01:54 2020
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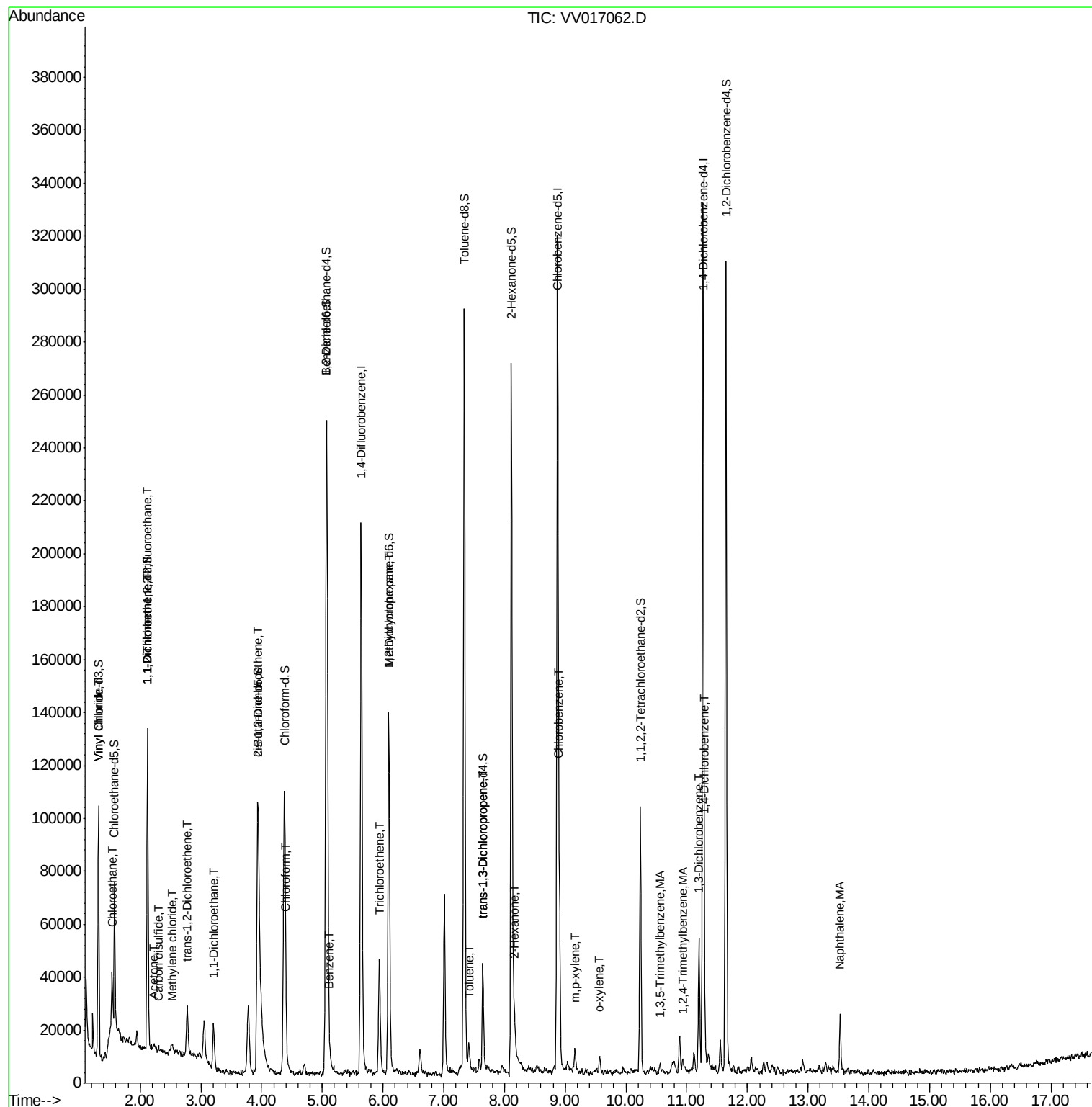
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) trans-1,3-Dichloropropene	7.64	75	1270	0.092	ug/L #	76
50) 2-Hexanone	8.17	43	9229	2.088	ug/L #	86
53) Chlorobenzene	8.90	112	35407	1.124	ug/L	99
55) m,p-xylene	9.16	106	2460	0.116	ug/L	97
56) o-xylene	9.57	106	1642	0.083	ug/L	100
63) 1,3-Dichlorobenzene	11.21	146	19621	0.801	ug/L	93
64) 1,4-Dichlorobenzene	11.30	146	7033	0.283	ug/L	90
70) Naphthalene	13.53	128	16514	0.722	ug/L	98

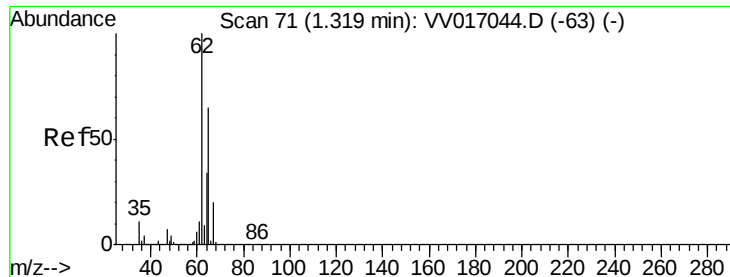
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.305 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017062.D

Acq: 23 Jun 2020 18:33

Instrument :

MSVOA_V

ClientSampleId :

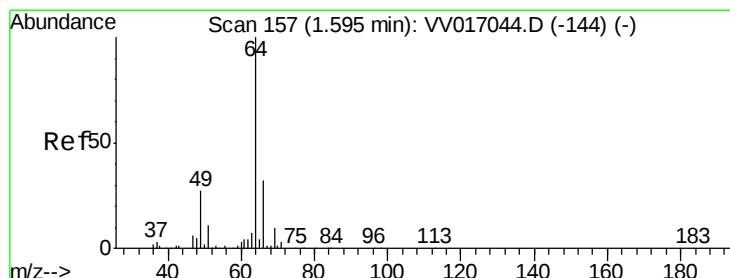
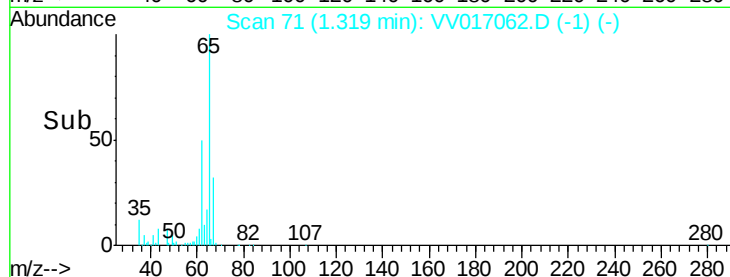
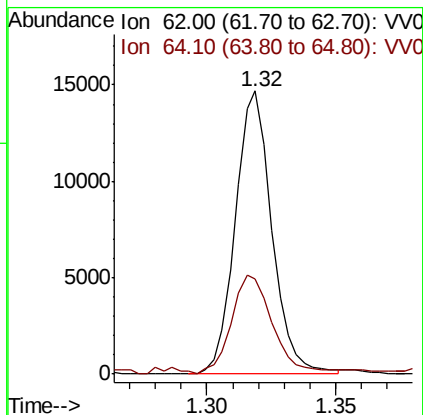
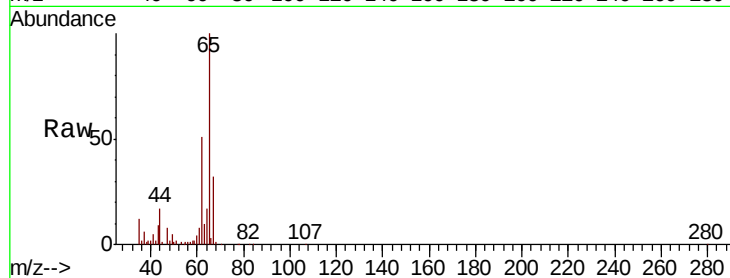
ETTN1

Tot Ion: 62 Resp: 14439

Ion Ratio Lower Upper

62 100

64 33.8 22.5 41.7



#8

Chloroethane

Concen: 6.908 ug/L

RT: 1.54 min Scan# 141

Delta R.T. -0.05 min

Lab File: VV017062.D

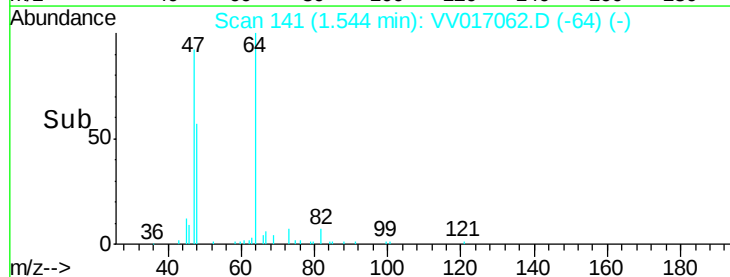
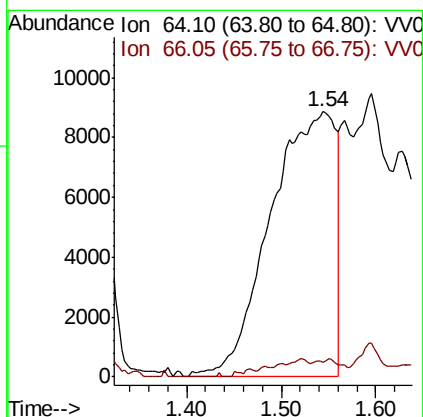
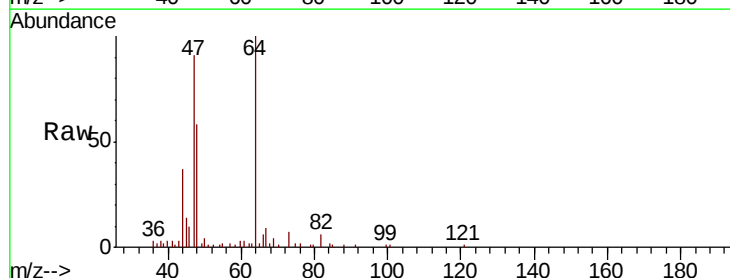
Acq: 23 Jun 2020 18:33

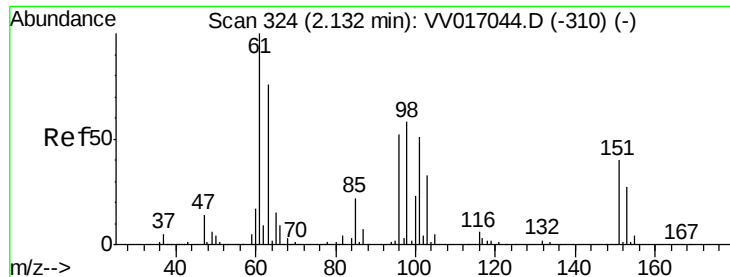
Tgt Ion: 64 Resp: 42253

Ion Ratio Lower Upper

64 100

66 5.6 22.8 42.4#





#10

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

Concen: 0.082 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017062.D

Acq: 23 Jun 2020 18:33

Instrument :

MSVOA_V

ClientSampleId :

ETTN1

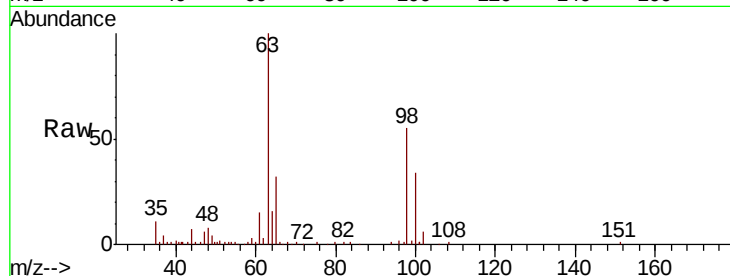
Tot Ion:101 Resp: 730

Ion Ratio Lower Upper

101 100

85 2.7 35.4 53.2#

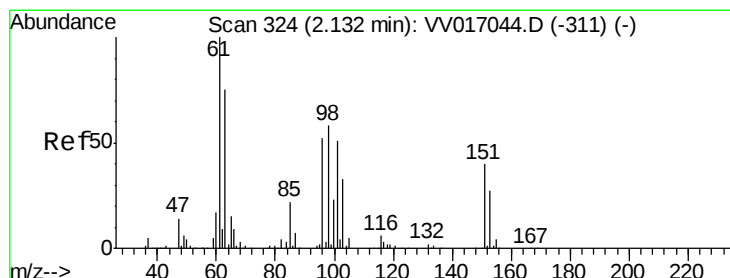
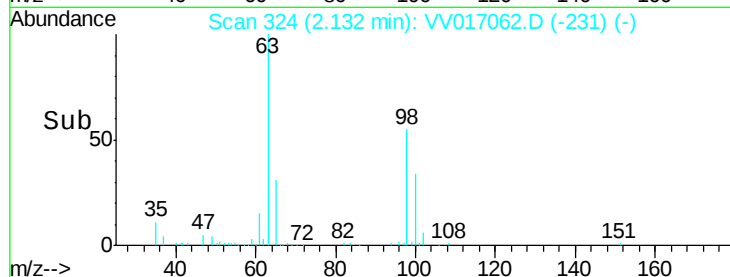
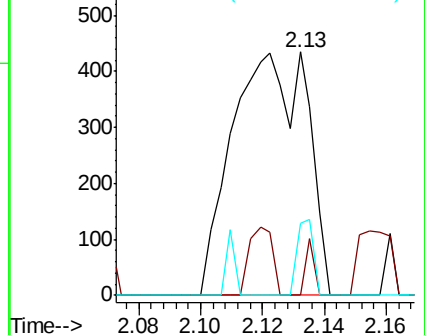
151 7.0 63.9 95.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.145 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV017062.D

Acq: 23 Jun 2020 18:33

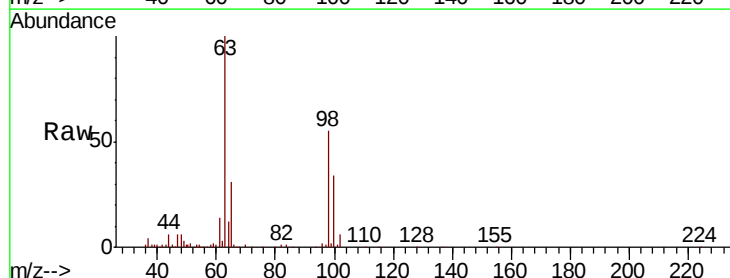
Tgt Ion: 96 Resp: 1176

Ion Ratio Lower Upper

96 100

61 751.1 125.0 232.2#

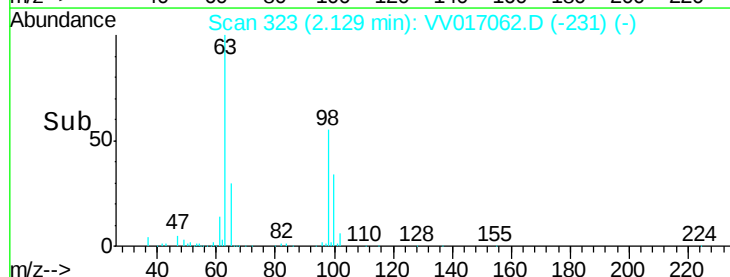
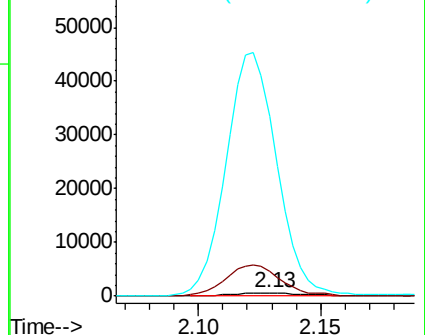
63 5376.8 109.8 203.8#

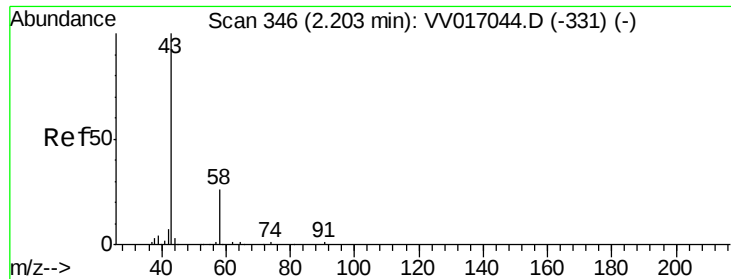


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 2.591 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.02 min

Lab File: VV017062.D

Acq: 23 Jun 2020 18:33

Instrument :

MSVOA_V

ClientSampleId :

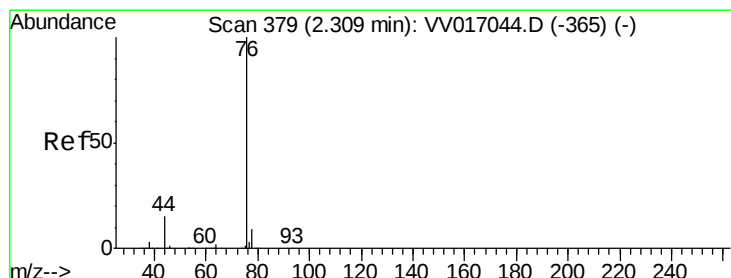
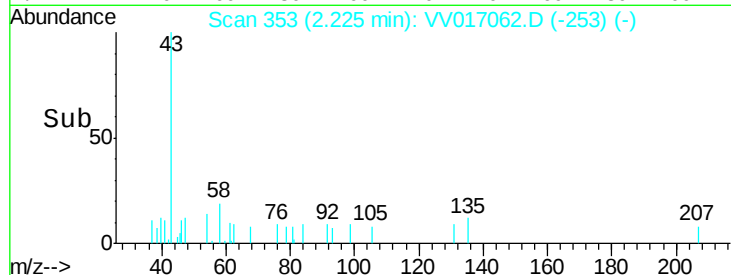
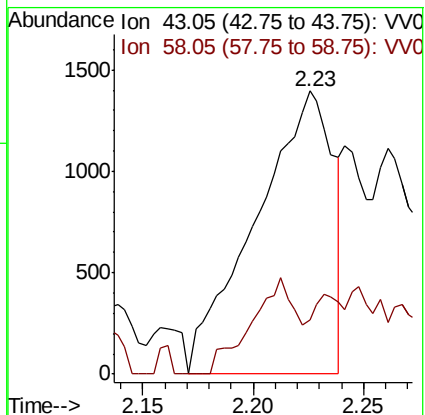
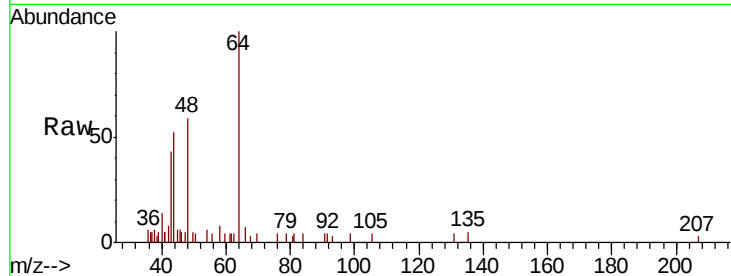
ETTN1

Tot Ion: 43 Resp: 3379

Ion Ratio Lower Upper

43 100

58 4.5 0.0 58.4



#14

Carbon disulfide

Concen: 0.107 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV017062.D

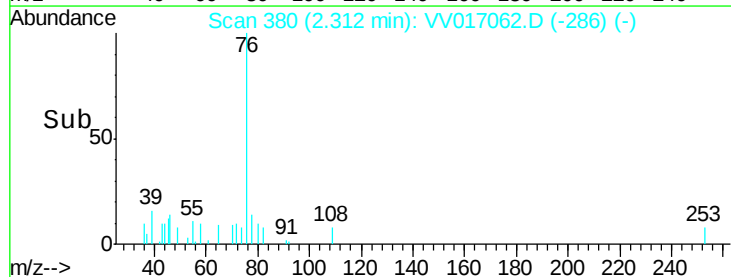
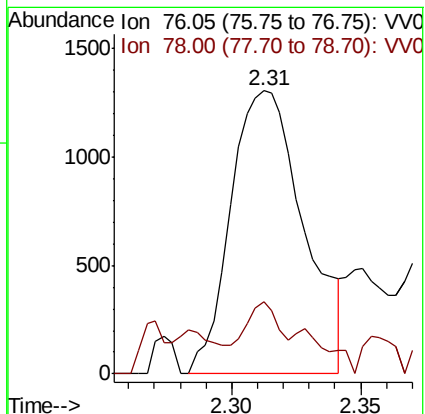
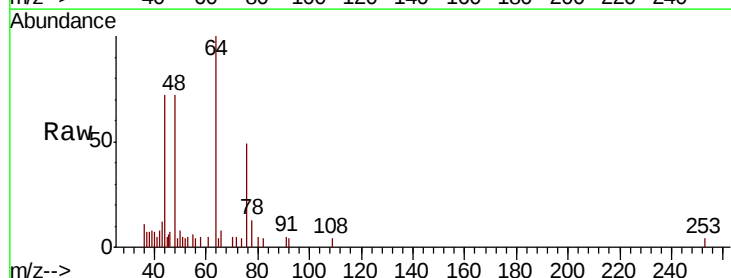
Acq: 23 Jun 2020 18:33

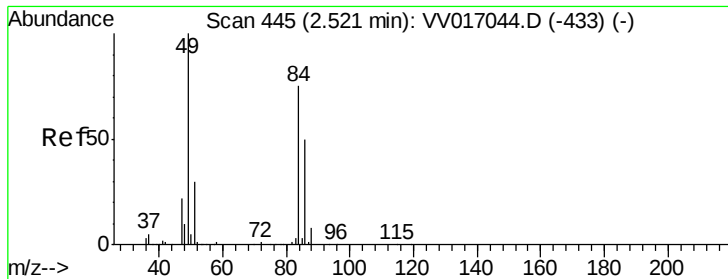
Tgt Ion: 76 Resp: 2588

Ion Ratio Lower Upper

76 100

78 25.5 7.7 11.5#

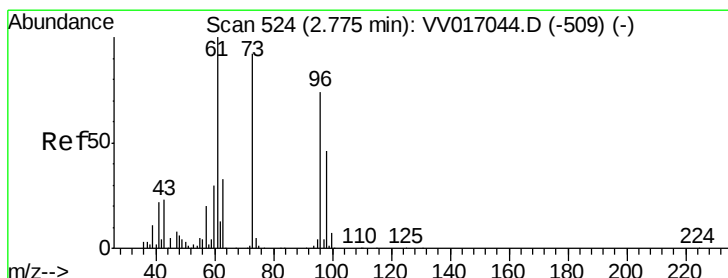
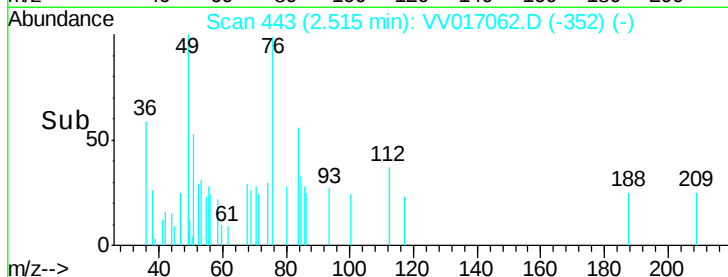
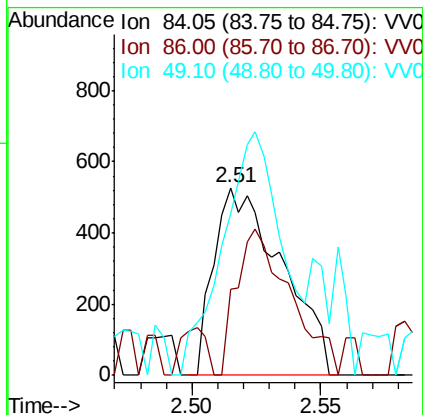
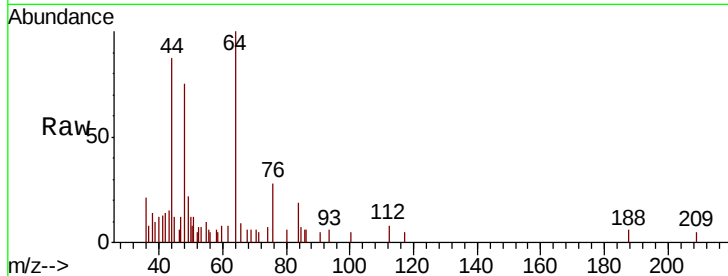




#16
Methylene chloride
Concen: 0.112 ug/L
RT: 2.51 min Scan# 443
Delta R.T. -0.01 min
Lab File: VV017062.D
Acq: 23 Jun 2020 18:33

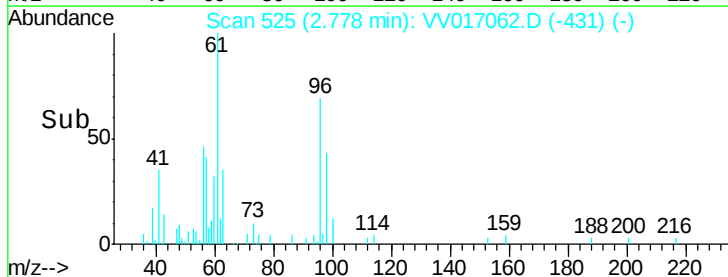
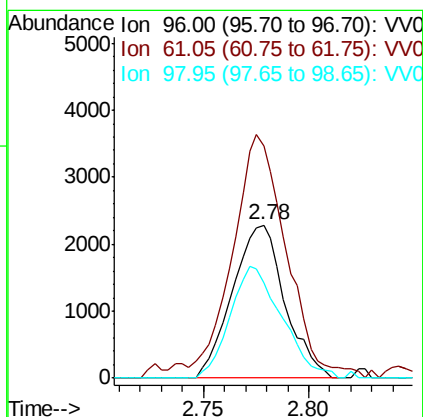
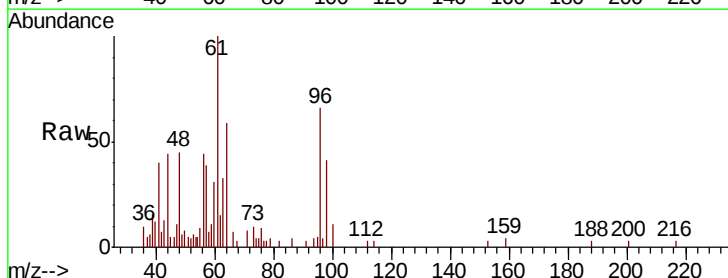
Instrument :
MSVOA_V
ClientSampled :
ETTN1

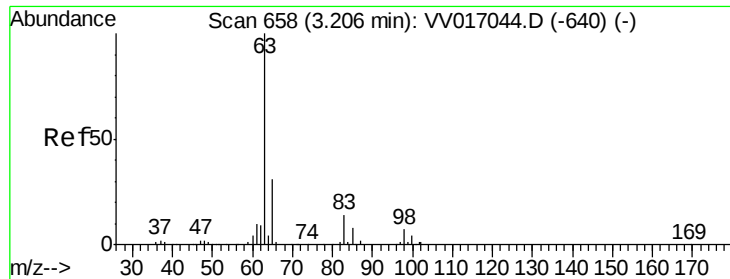
Tot Ion: 84 Resp: 967
Ion Ratio Lower Upper
84 100
86 45.8 45.8 85.0
49 131.1 89.6 166.4



#18
trans-1,2-Dichloroethene
Concen: 0.460 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV017062.D
Acq: 23 Jun 2020 18:33

Tgt Ion: 96 Resp: 3947
Ion Ratio Lower Upper
96 100
61 151.8 102.3 189.9
98 62.0 44.7 82.9

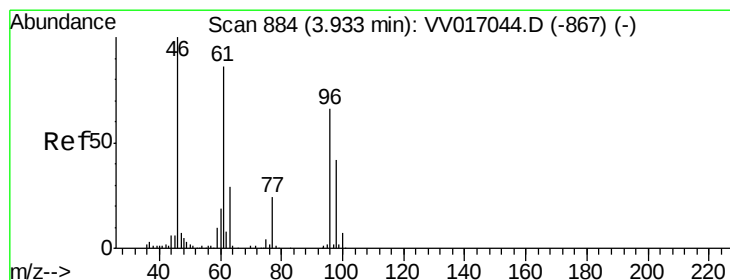
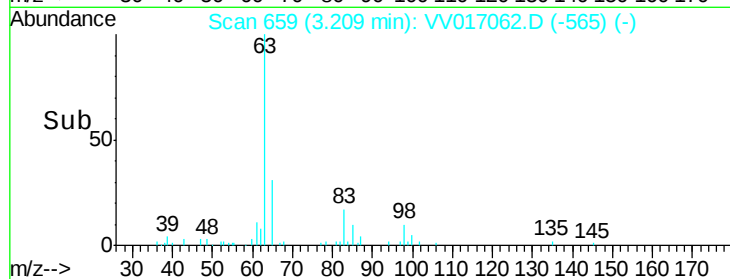
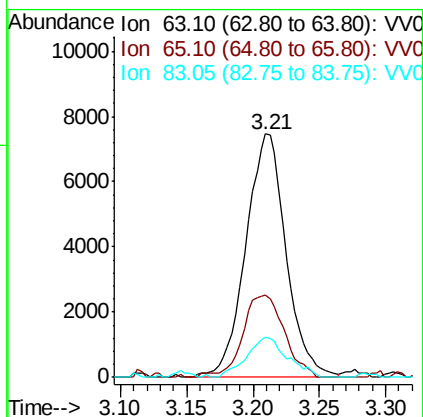
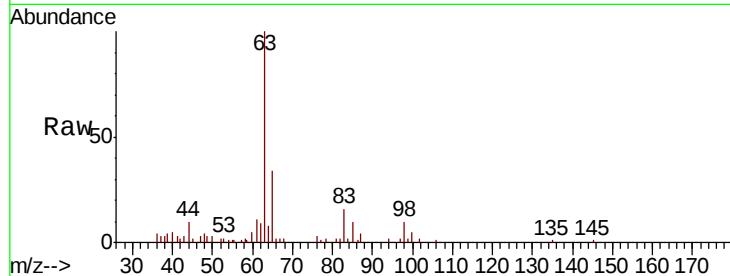




#19
 1,1-Dichloroethane
 Concen: 0.820 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

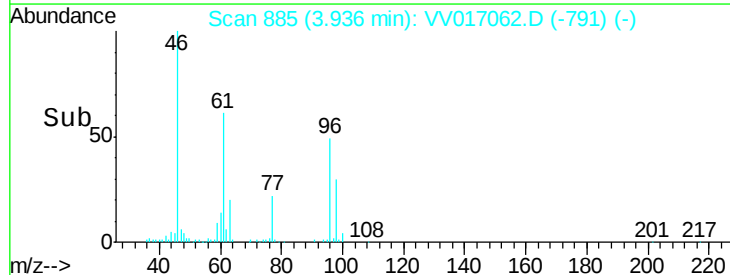
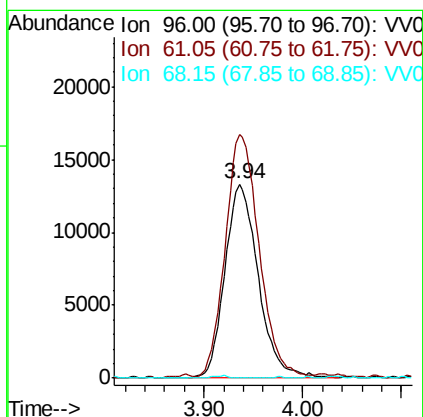
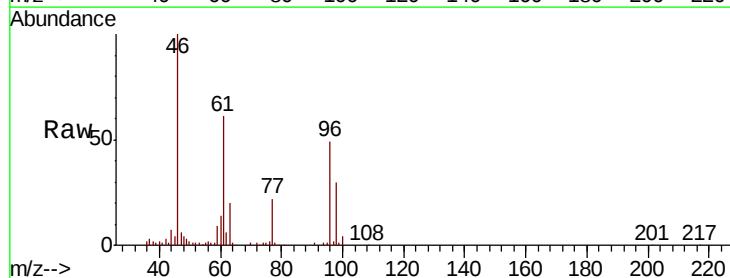
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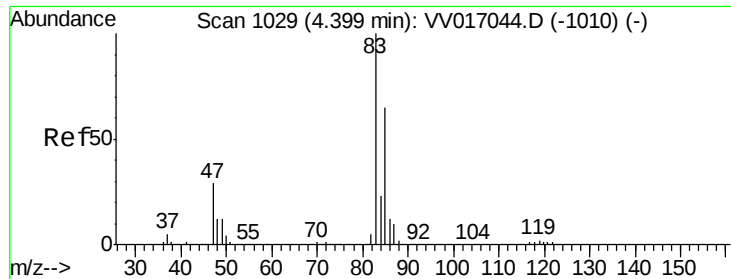
Tot Ion	Ratio	Lower	Upper
63	100		
65	35.4	21.8	40.4
83	16.2	9.7	17.9



#22
 cis-1,2-Dichloroethene
 Concen: 2.683 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	125.6	91.0	169.0
68	0.0	0.0	0.0

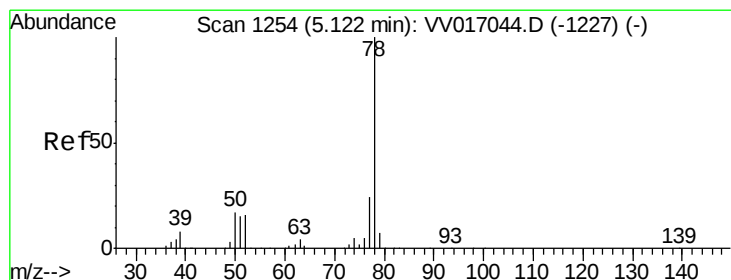
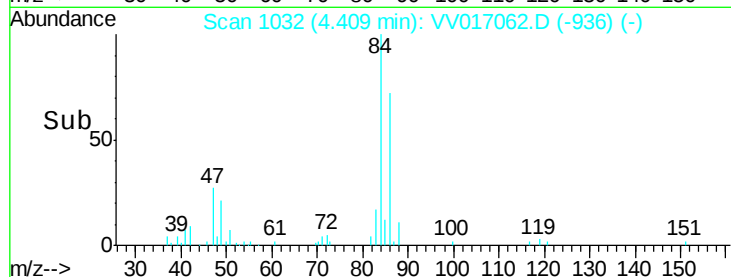
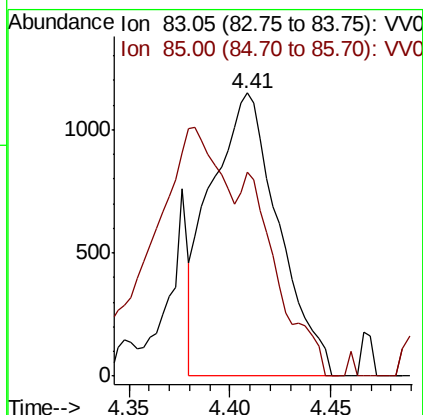
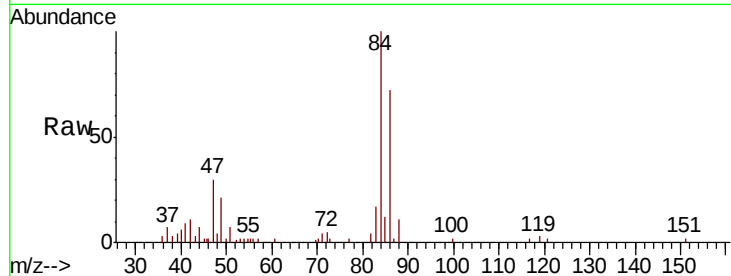




#25
Chloroform
Concen: 0.128 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VV017062.D
Acq: 23 Jun 2020 18:33

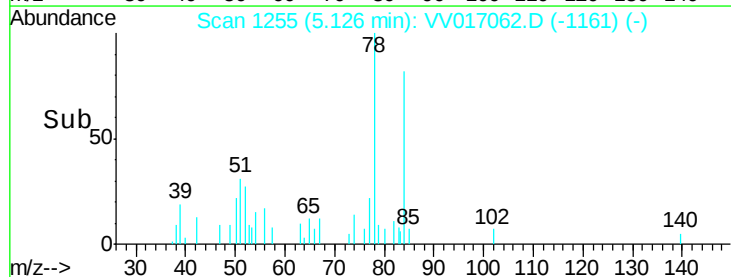
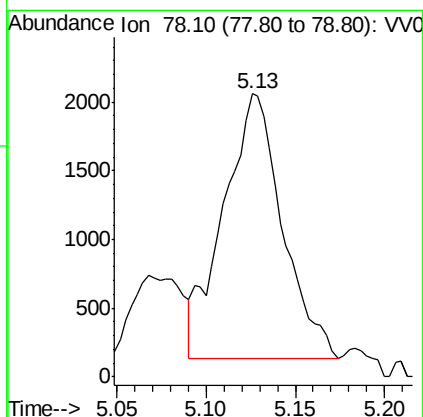
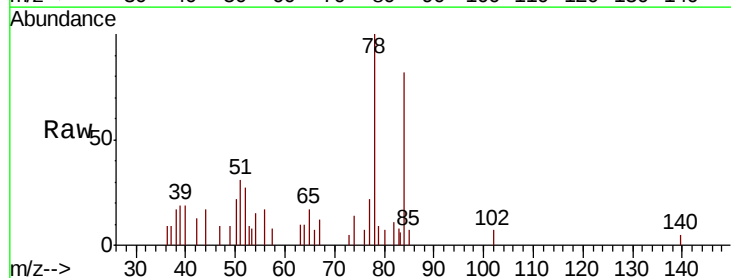
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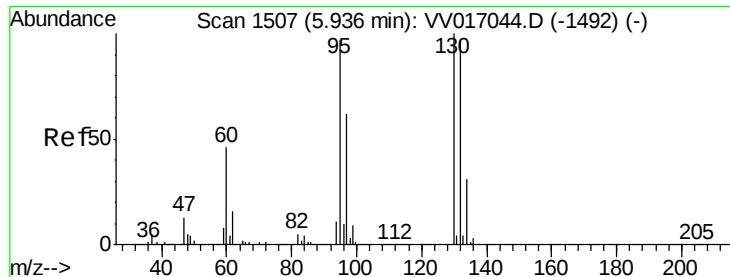
Tot Ion: 83 Resp: 2687
Ion Ratio Lower Upper
83 100
85 72.0 44.2 82.2



#33
Benzene
Concen: 0.102 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VV017062.D
Acq: 23 Jun 2020 18:33

Tgt Ion: 78 Resp: 4431

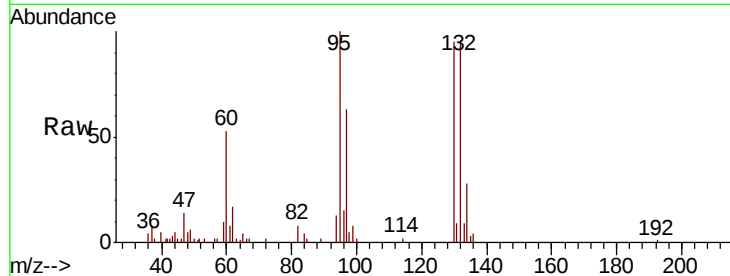




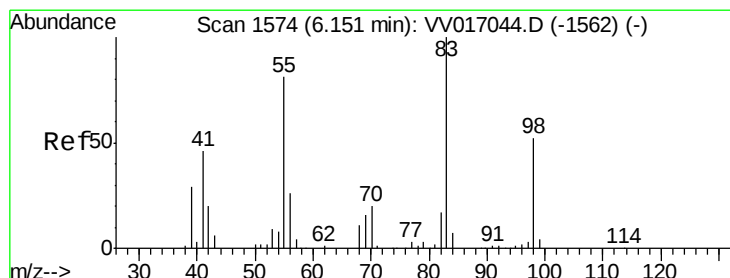
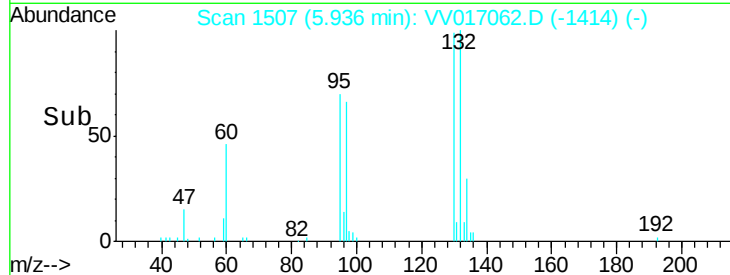
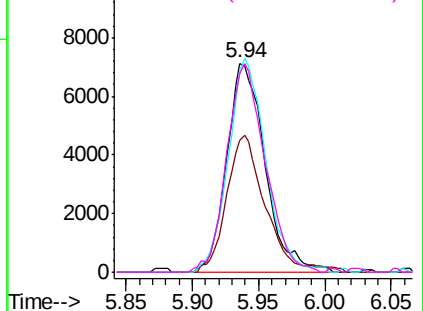
#34
 Trichloroethene
 Concen: 1.126 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. 0.00 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

Instrument :
 MSVOA_V
 ClientSampleId :
 ETTN1

Tot Ion:	95	Resp:	14328
Ion	Ratio	Lower	Upper
95	100		
97	63.4	45.3	84.1
132	96.0	68.8	127.8
130	94.8	70.2	130.4

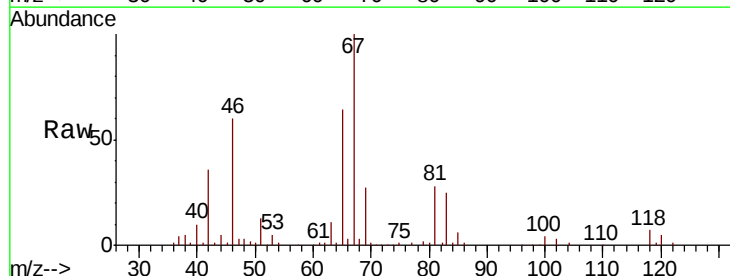


Abundance Ion 95.00 (94.70 to 95.70): VV017062.D (-1414) (-)
 Ion 96.95 (96.65 to 97.65): VV017062.D (-1414) (-)
 Ion 131.95 (131.65 to 132.65): VV017062.D (-1414) (-)
 Ion 129.95 (129.65 to 130.65): VV017062.D (-1414) (-)

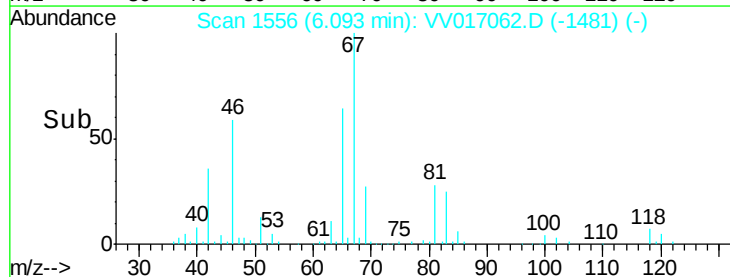
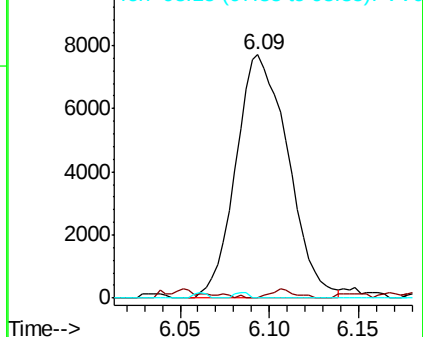


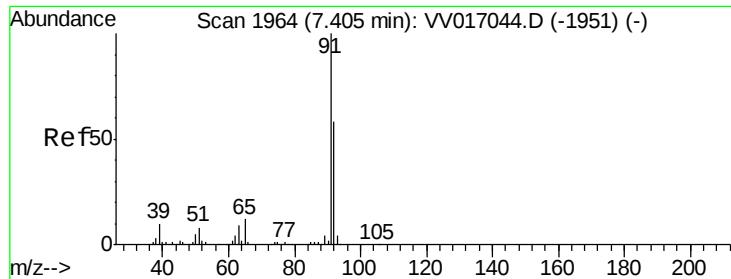
#35
 Methylcyclohexane
 Concen: 0.795 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.06 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

Tgt Ion:	83	Resp:	15736
Ion	Ratio	Lower	Upper
83	100		
55	1.7	63.6	95.4#
98	0.7	38.8	58.2#



Abundance Ion 83.15 (82.85 to 83.85): VV017062.D (-1481) (-)
 Ion 55.10 (54.80 to 55.80): VV017062.D (-1481) (-)
 Ion 98.15 (97.85 to 98.85): VV017062.D (-1481) (-)





#42

Toluene

Concen: 0.137 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV017062.D

Acq: 23 Jun 2020 18:33

Instrument :

MSVOA_V

ClientSampleId :

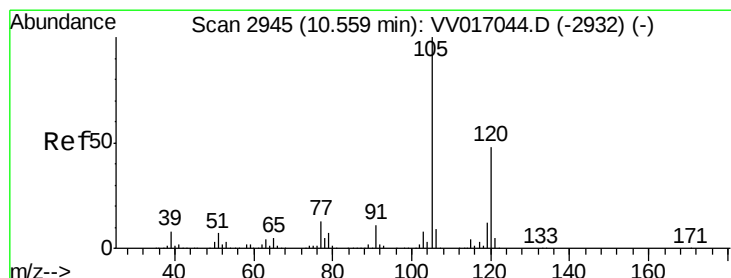
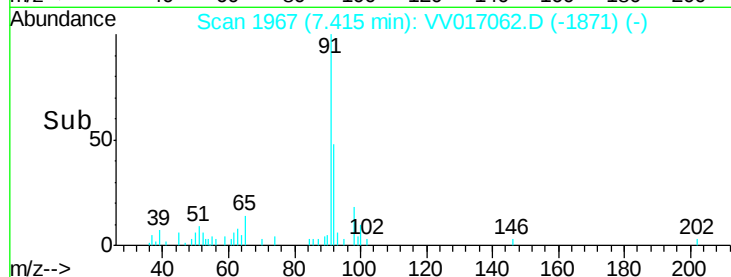
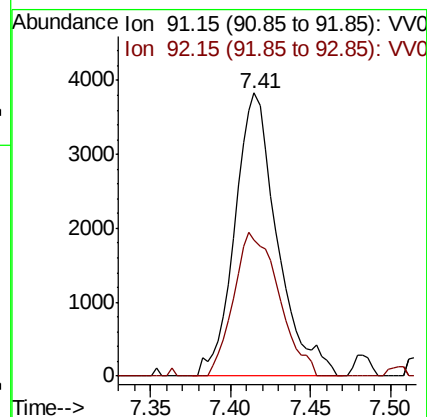
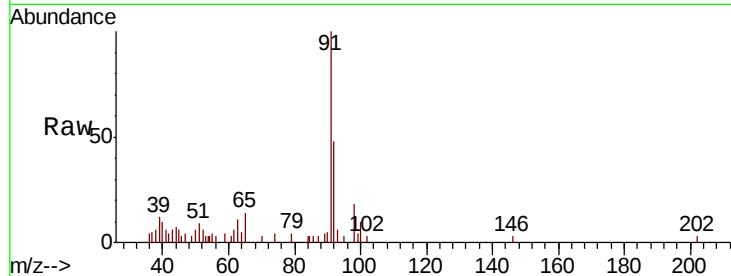
ETTN1

Tot Ion: 91 Resp: 6911

Ion Ratio Lower Upper

91 100

92 48.2 39.9 74.1



#43

1,3,5-Trimethylbenzene

Concen: 0.034 ug/L

RT: 10.57 min Scan# 2947

Delta R.T. 0.01 min

Lab File: VV017062.D

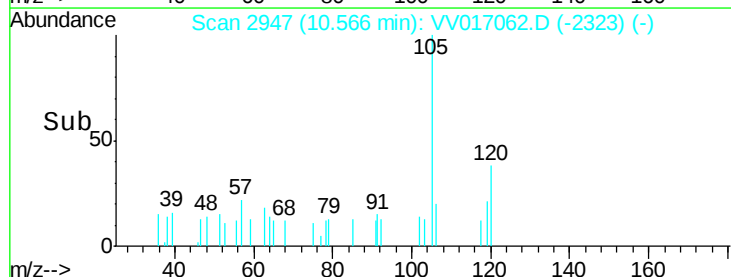
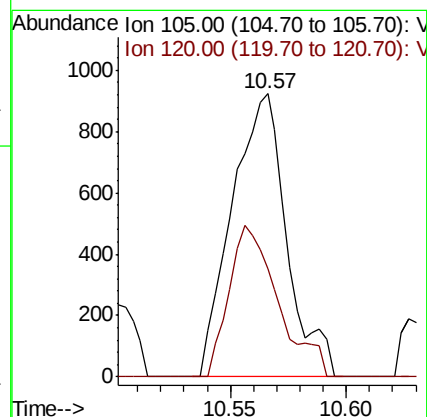
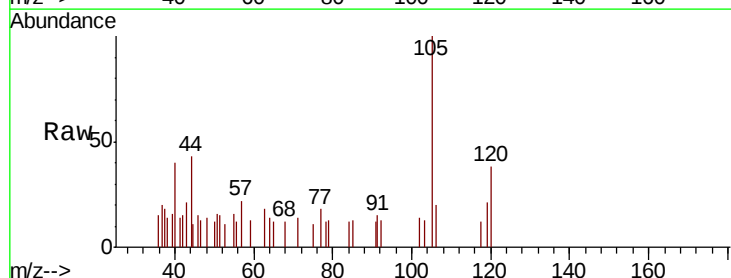
Acq: 23 Jun 2020 18:33

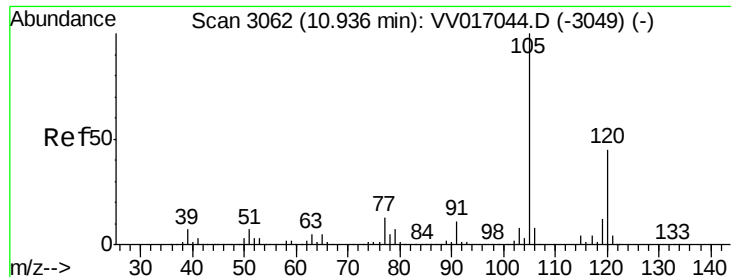
Tgt Ion: 105 Resp: 1516

Ion Ratio Lower Upper

105 100

120 47.8 38.6 57.8

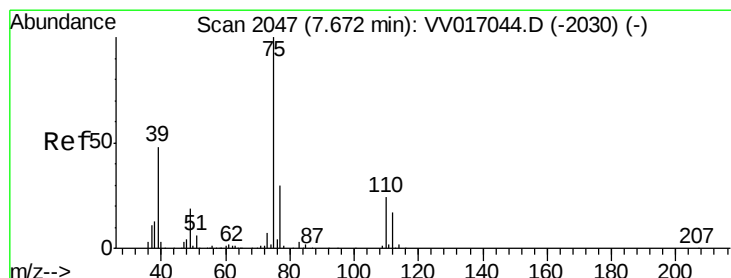
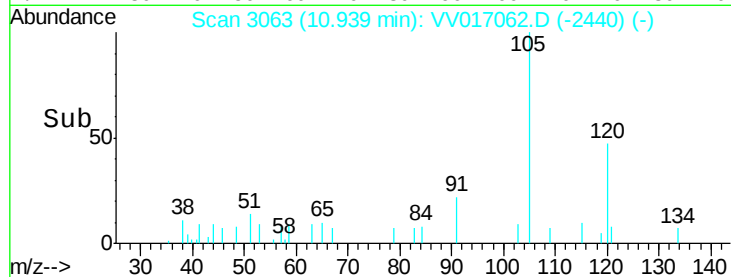
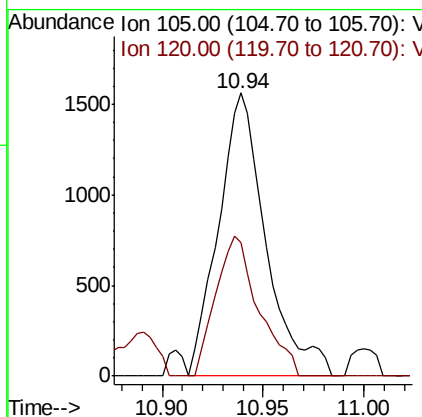
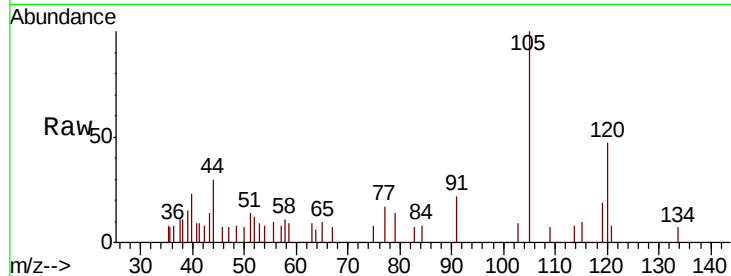




#44
 1,2,4-Trimethylbenzene
 Concen: 0.056 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

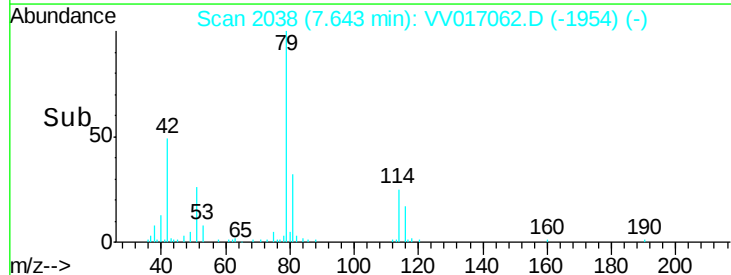
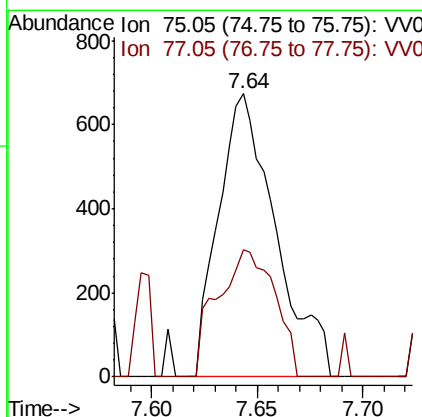
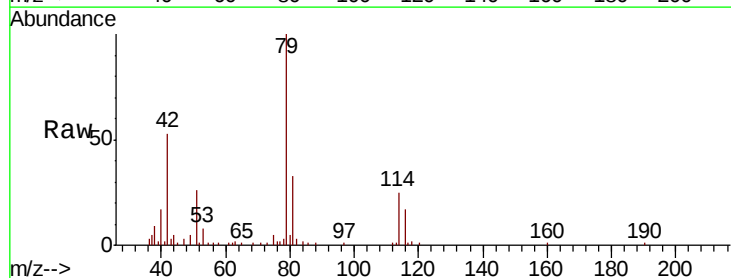
Instrument :
 MSVOA_V
 ClientSampleId :
 ETTN1

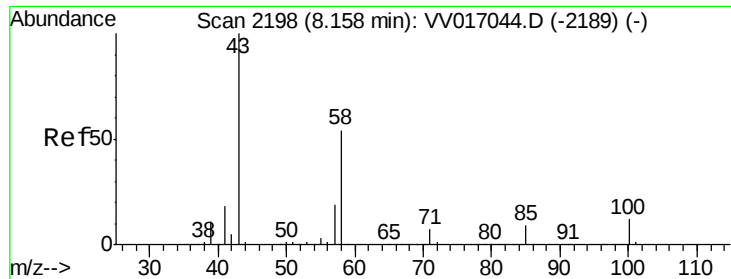
Tot Ion:105 Resp: 2556
 Ion Ratio Lower Upper
 105 100
 120 44.9 35.8 53.8



#46
 trans-1,3-Dichloropropene
 Concen: 0.092 ug/L
 RT: 7.64 min Scan# 2038
 Delta R.T. -0.03 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

Tgt Ion: 75 Resp: 1270
 Ion Ratio Lower Upper
 75 100
 77 45.0 22.3 41.3#

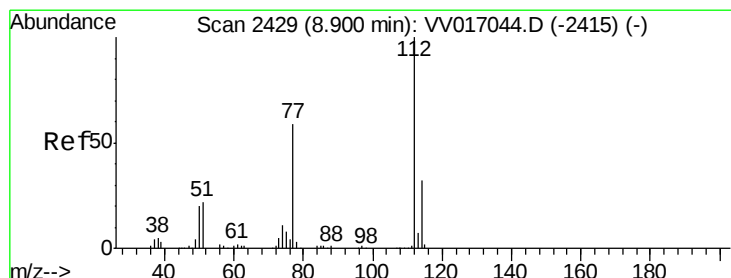
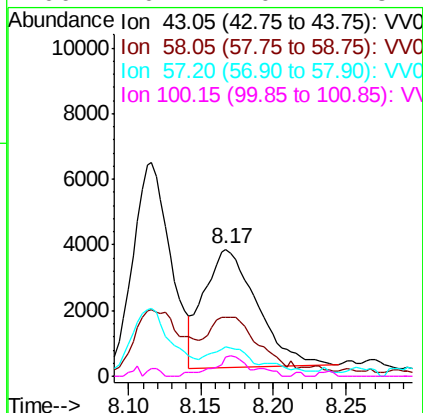
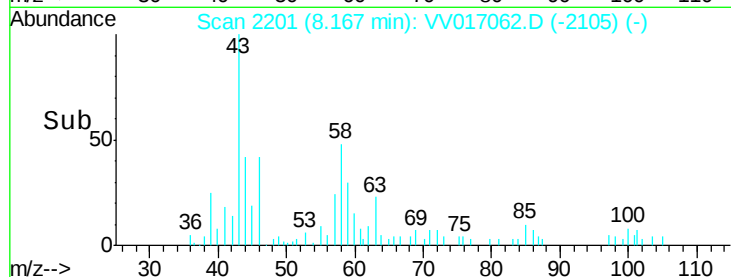
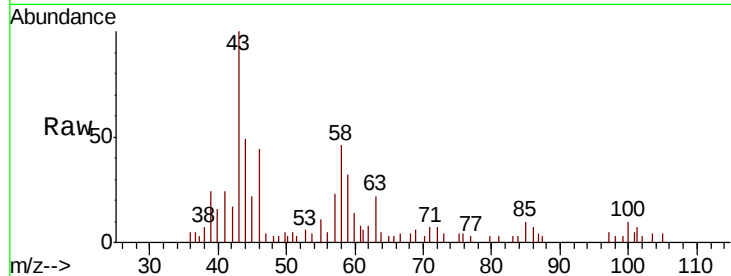




#50
2-Hexanone
Concen: 2.088 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV017062.D
Acq: 23 Jun 2020 18:33

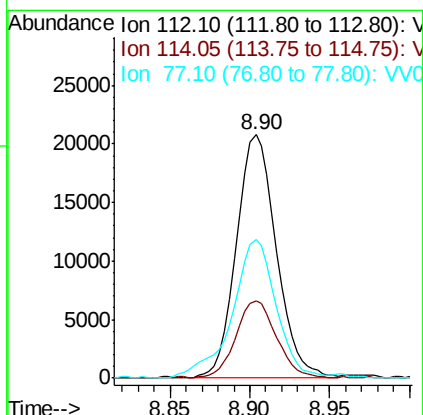
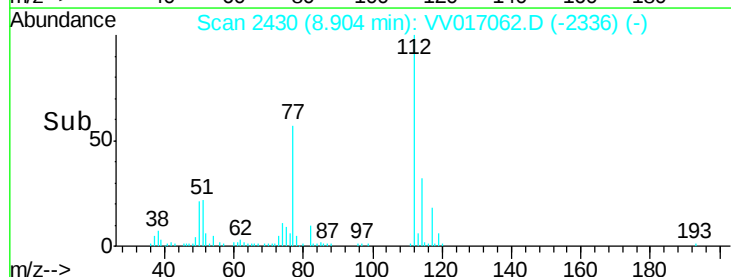
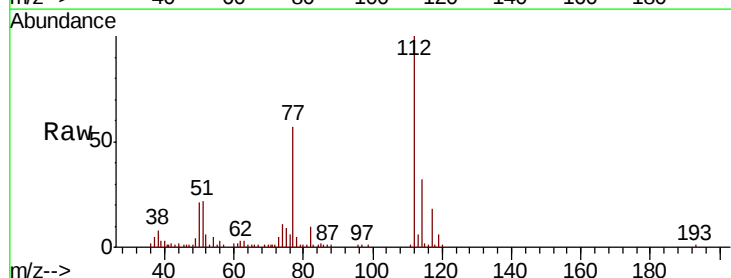
Instrument :
MSVOA_V
ClientSampleId :
ETTN1

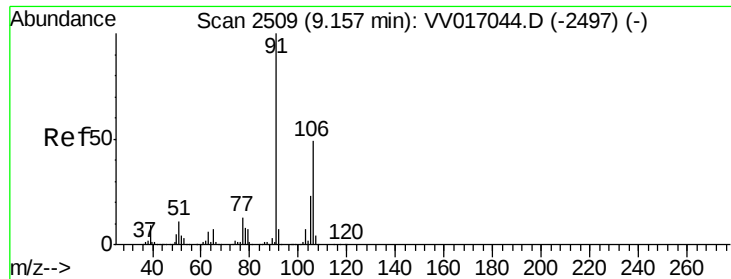
Tot Ion: 43 Resp: 9229
Ion Ratio Lower Upper
43 100
58 42.5 41.6 62.4
57 10.0 15.4 23.0#
100 10.2 10.1 15.1



#53
Chlorobenzene
Concen: 1.124 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV017062.D
Acq: 23 Jun 2020 18:33

Tgt Ion: 112 Resp: 35407
Ion Ratio Lower Upper
112 100
114 31.9 22.0 41.0
77 57.1 46.0 69.0





#55

m,p-xylene

Concen: 0.116 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017062.D

Acq: 23 Jun 2020 18:33

Instrument :

MSVOA_V

ClientSampleId :

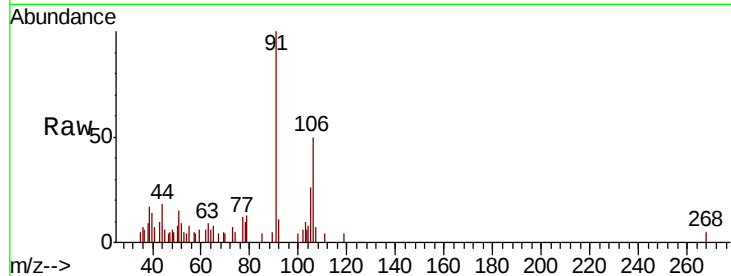
ETTN1

Tot Ion:106 Resp: 2460

Ion Ratio Lower Upper

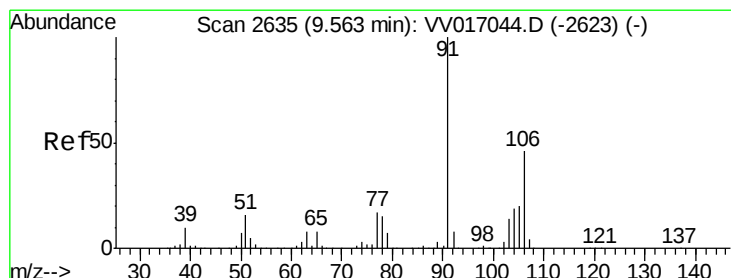
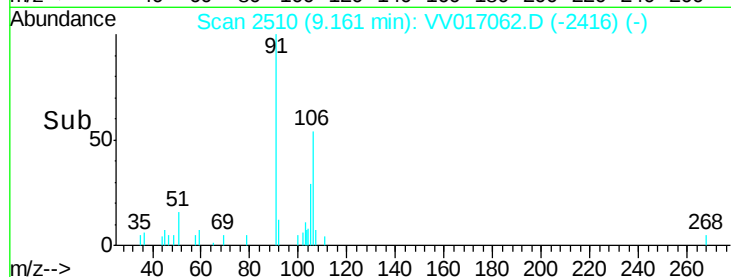
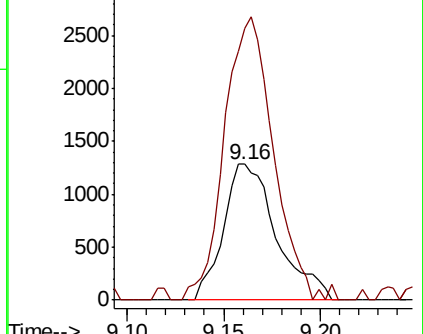
106 100

91 199.8 142.7 264.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 0.083 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. 0.01 min

Lab File: VV017062.D

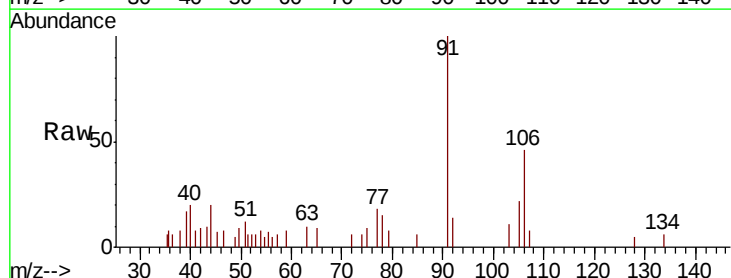
Acq: 23 Jun 2020 18:33

Tgt Ion:106 Resp: 1642

Ion Ratio Lower Upper

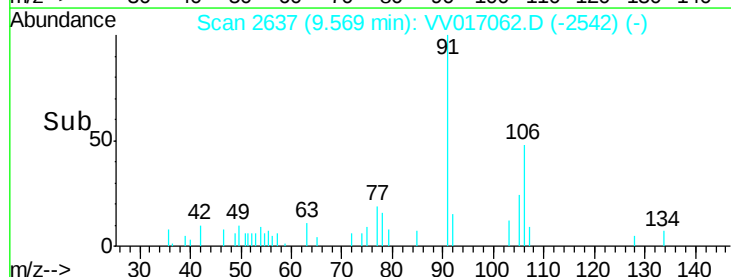
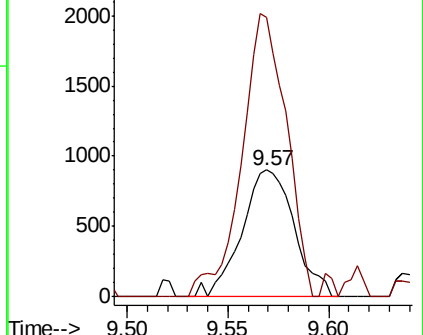
106 100

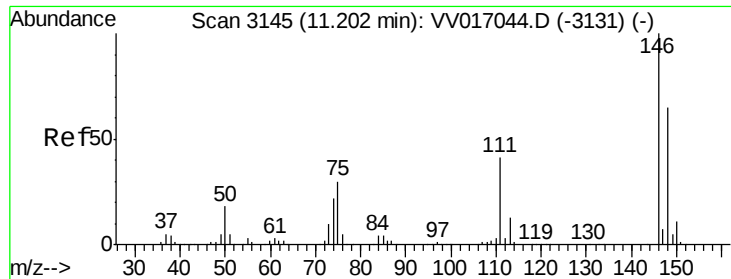
91 219.6 153.6 285.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

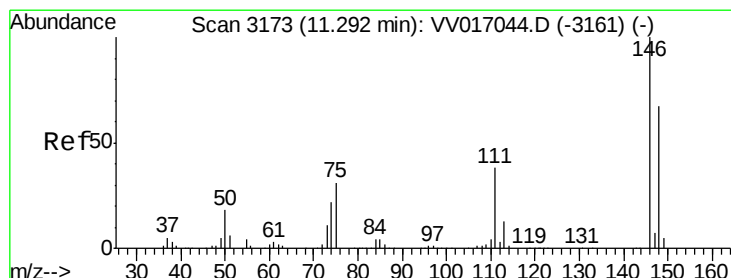
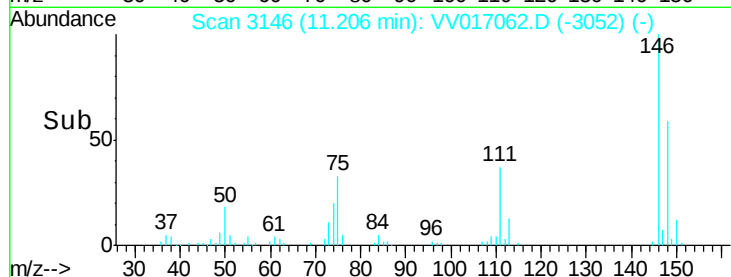
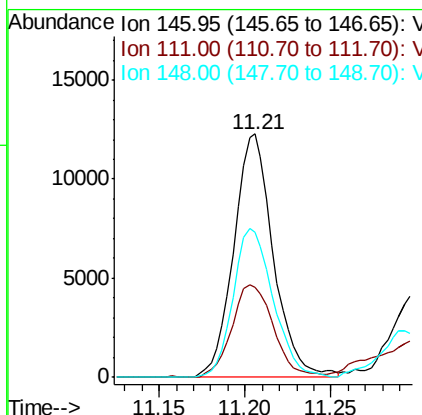
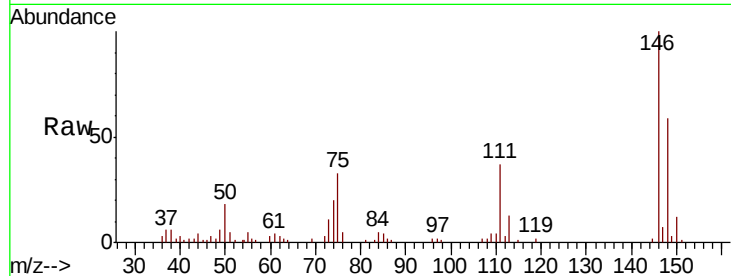




#63
 1,3-Dichlorobenzene
 Concen: 0.801 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

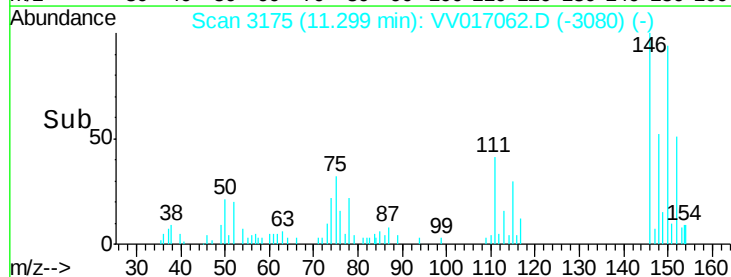
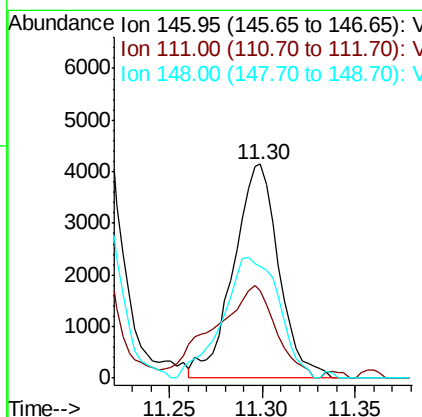
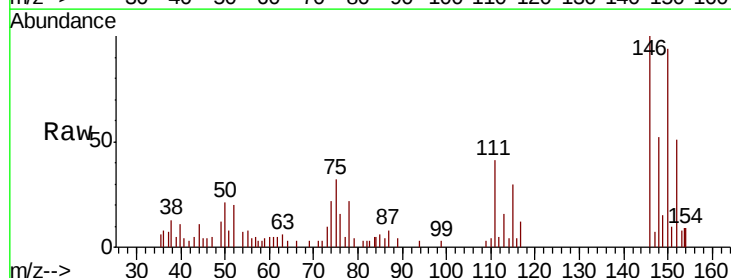
Instrument :
 MSVOA_V
 ClientSampleId :
 ETTN1

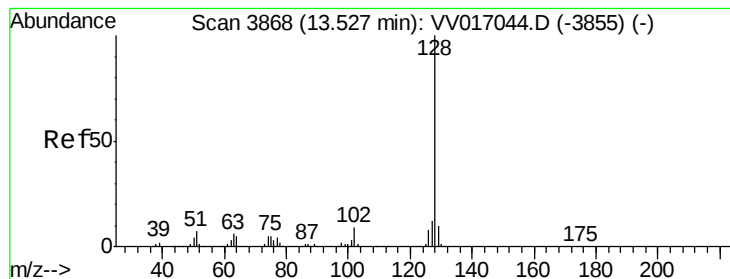
Tot Ion:146 Resp: 19621
 Ion Ratio Lower Upper
 146 100
 111 36.7 29.2 54.2
 148 59.5 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 0.283 ug/L
 RT: 11.30 min Scan# 3175
 Delta R.T. 0.01 min
 Lab File: VV017062.D
 Acq: 23 Jun 2020 18:33

Tgt Ion:146 Resp: 7033
 Ion Ratio Lower Upper
 146 100
 111 40.7 27.4 50.8
 148 52.2 44.3 82.3





#70

Naphthalene

Concen: 0.722 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV017062.D

Acq: 23 Jun 2020 18:33

Instrument :

MSVOA_V

ClientSampleId :

ETTN1

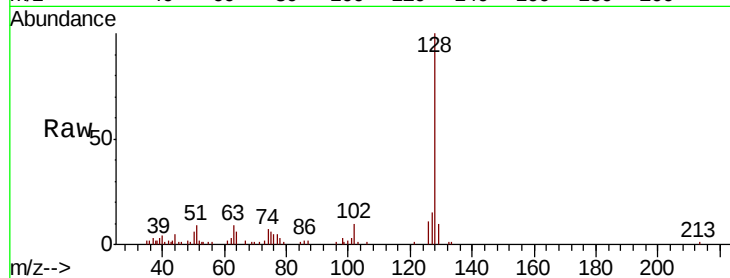
Tot Ion:128 Resp: 16514

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

127 14.0 10.5 15.7



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

