

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN063020\
 Data File : VN062277.D
 Acq On : 1 Jul 2020 7:32
 Operator : JC/MD
 Sample : L3153-32
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-H

Quant Time: Jul 01 07:56:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	205877	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	430593	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	411387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	149823	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	164713	57.01	ug/l	0.00
Spiked Amount			Recovery	=	114.02%	
35) Dibromofluoromethane	7.55	113	131190	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
50) Toluene-d8	10.06	98	547192	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
62) 4-Bromofluorobenzene	12.38	95	175146	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	

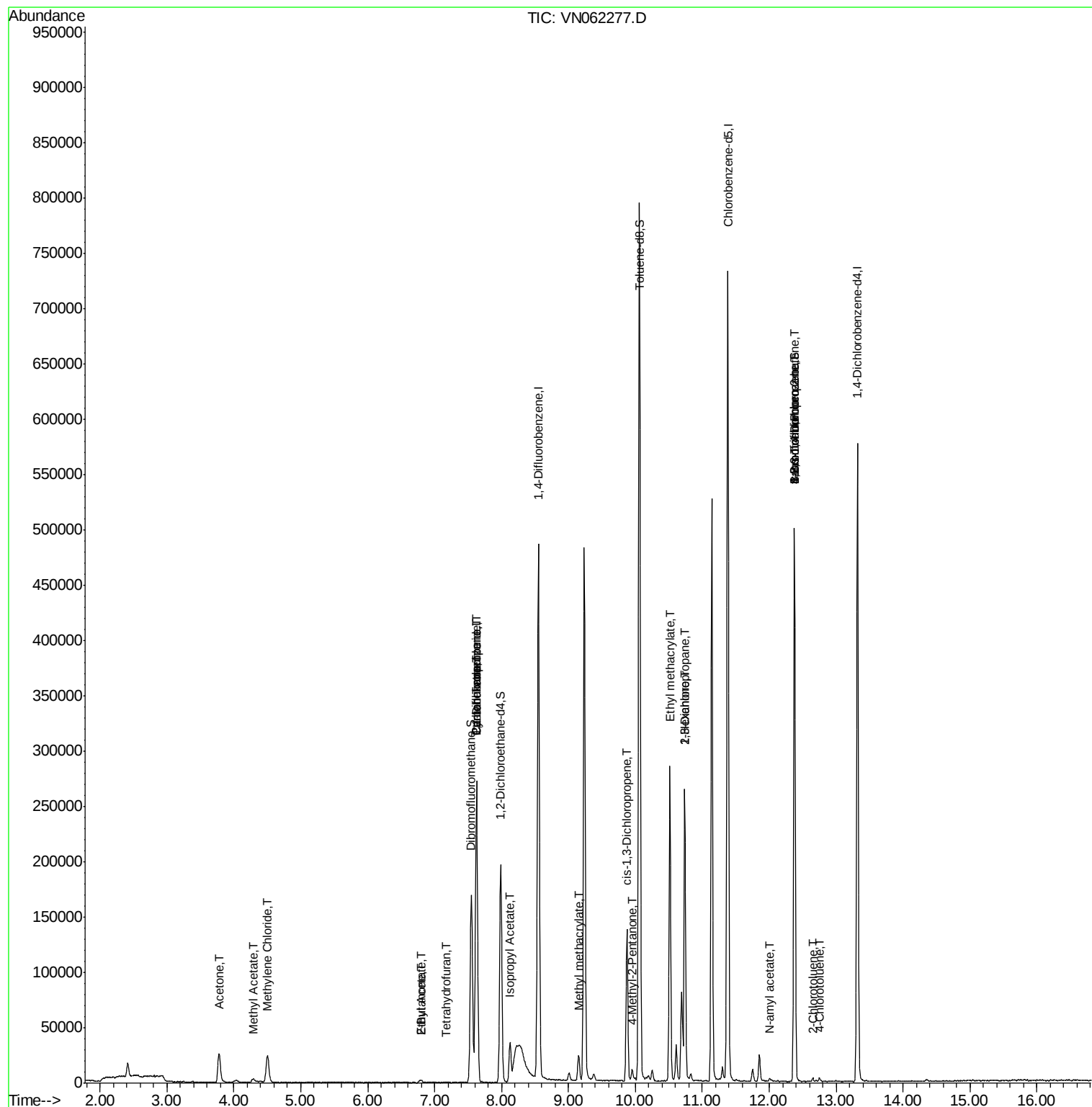
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	136	Below Cal	#	41
16) Acetone	3.78	43	46569	48.080	ug/l	93
18) Methyl Acetate	4.29	43	6705	2.919	ug/l #	75
20) Methylene Chloride	4.50	84	18234	6.687	ug/l	95
25) 2-Butanone	6.80	43	3175	2.248	ug/l	95
29) Tetrahydrofuran	7.18	42	964	1.042	ug/l #	43
31) Cyclohexane	7.62	56	5188	1.300	ug/l #	10
36) 1,1-Dichloropropene	7.62	75	18555	4.287	ug/l #	47
37) Ethyl Acetate	6.80	43	3175	0.886	ug/l #	66
38) Carbon Tetrachloride	7.63	117	22163	5.432	ug/l #	16
43) Isopropyl Acetate	8.13	43	41424	7.090	ug/l	99
48) Methyl methacrylate	9.14	41	3308	1.263	ug/l #	19
51) 4-Methyl-2-Pentanone	9.95	43	7253	2.125	ug/l	91
54) cis-1,3-Dichloropropene	9.88	75	24756	4.744	ug/l #	72
56) Ethyl methacrylate	10.51	69	1191	0.282	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2563	0.471	ug/l #	42
59) 2-Hexanone	10.74	43	37268	15.120	ug/l #	49
71) Bromoform	12.37	173	1252	0.564	ug/l #	1
74) N-amyl acetate	12.00	43	1553	3.683	ug/l #	41
76) 1,2,3-Trichloropropane	12.38	75	91218	25.863	ug/l #	100
79) 2-Chlorotoluene	12.65	91	2383	0.297	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	91218	75.530	ug/l #	13
82) 4-Chlorotoluene	12.75	91	2642	0.319	ug/l	85

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

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SP2-H

Quant Time: Jul 01 07:56:05 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

Instrument :

MSVOA_N

ClientSampleId :

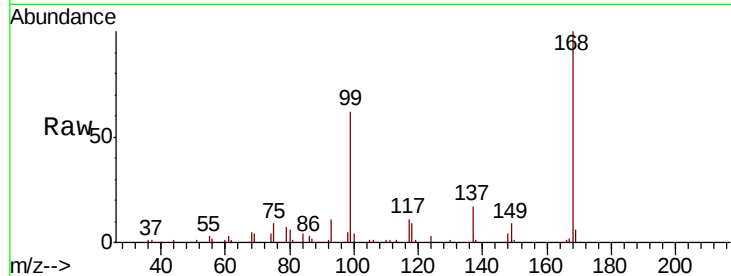
SP2-H

Tot Ion:168 Resp: 205877

Ion Ratio Lower Upper

168 100

99 61.7 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

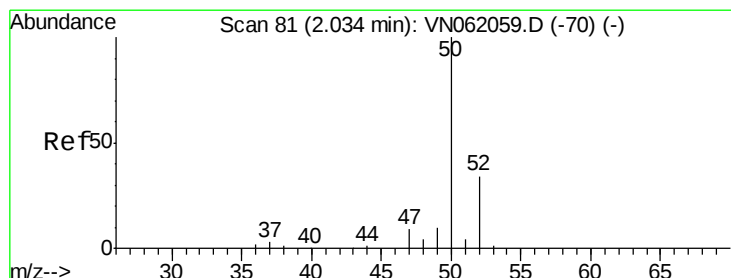
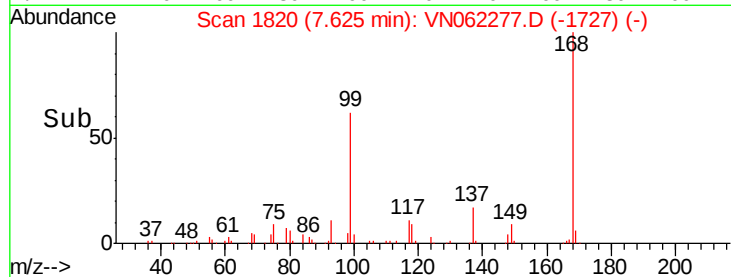
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062277.D

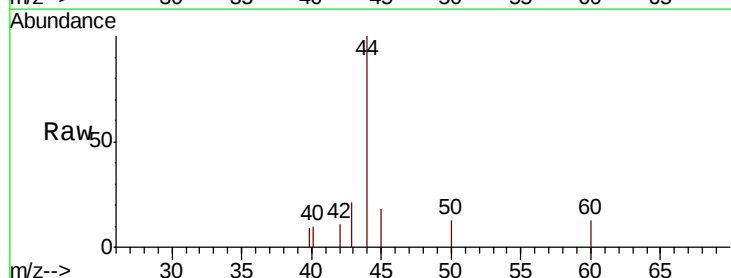
Acq: 1 Jul 2020 7:32

Tgt Ion: 50 Resp: 136

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

300

250

200

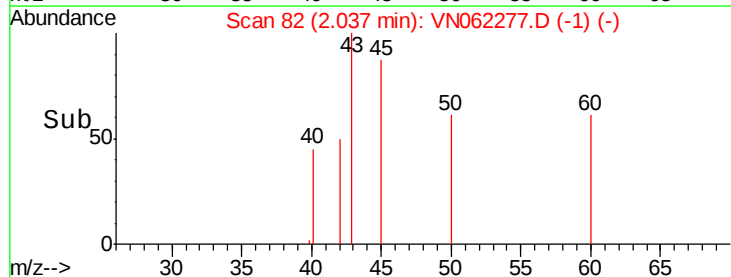
150

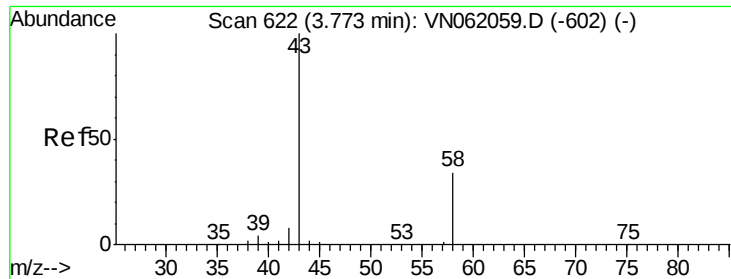
100

50

0

Time--> 2.03 2.04 2.05





#16

Acetone

Concen: 48.080 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

Instrument :

MSVOA_N

ClientSampled :

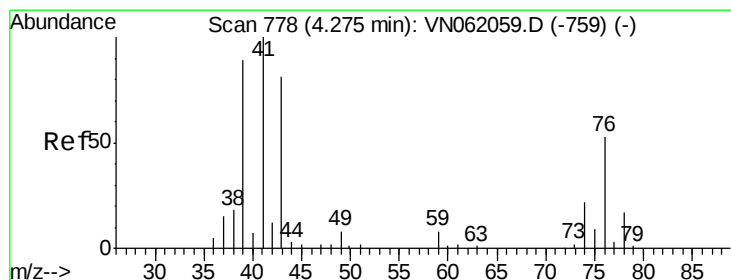
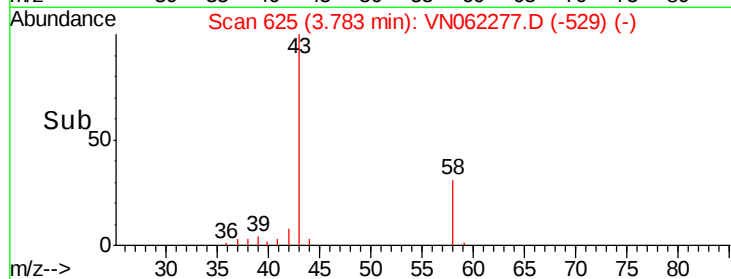
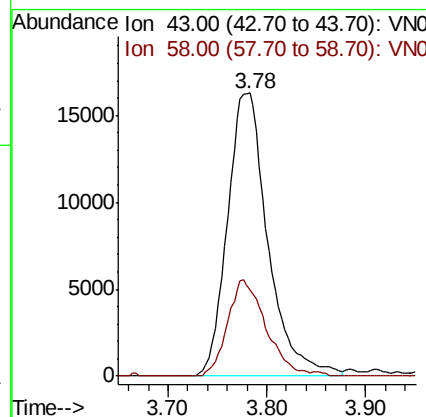
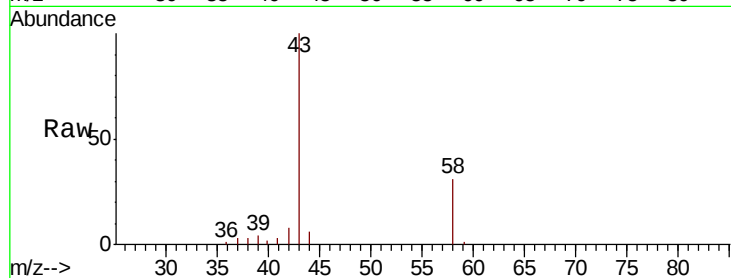
SP2-H

Tot Ion: 43 Resp: 46569

Ion Ratio Lower Upper

43 100

58 30.6 27.5 41.3



#18

Methyl Acetate

Concen: 2.919 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.02 min

Lab File: VN062277.D

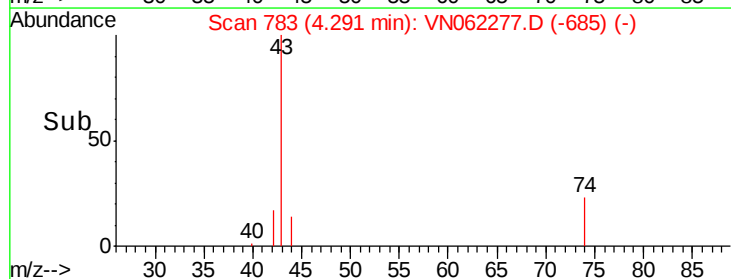
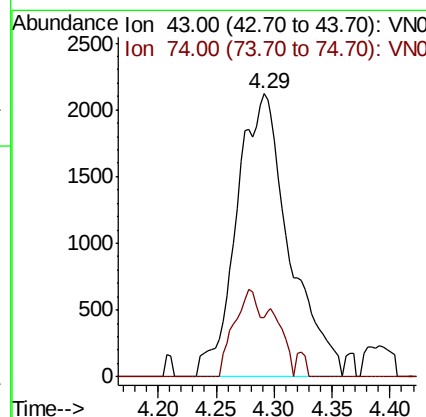
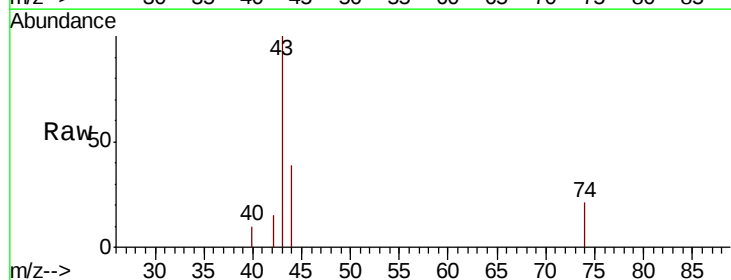
Acq: 1 Jul 2020 7:32

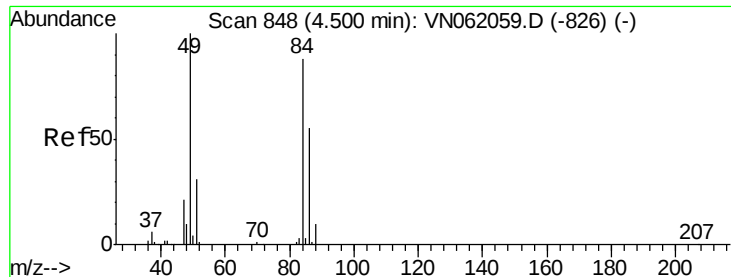
Tgt Ion: 43 Resp: 6705

Ion Ratio Lower Upper

43 100

74 15.6 22.9 34.3#

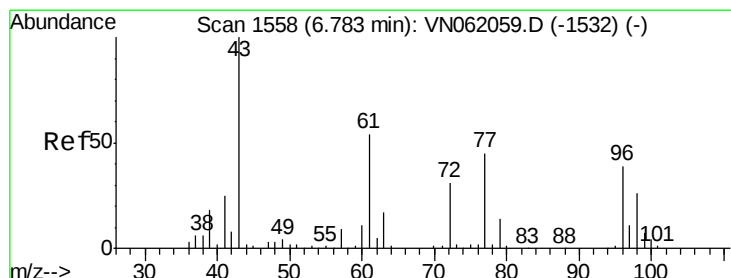
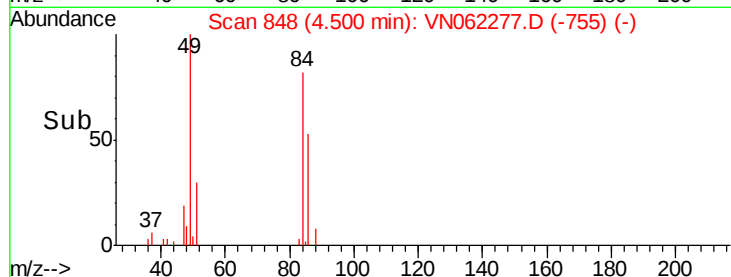
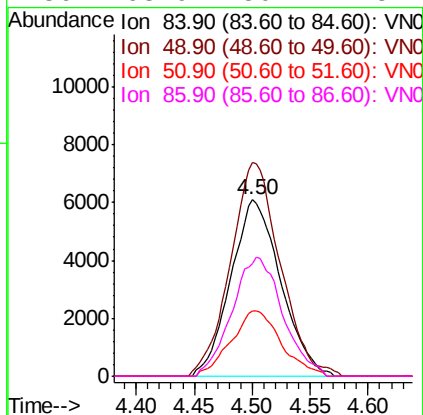
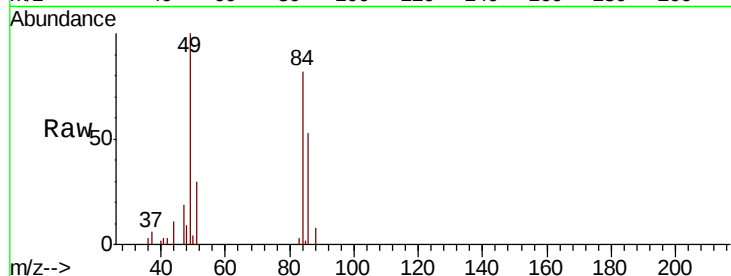




#20
Methvlene Chloride
Concen: 6.687 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062277.D
Acq: 1 Jul 2020 7:32

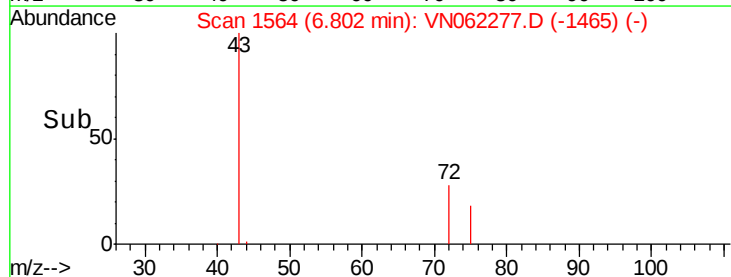
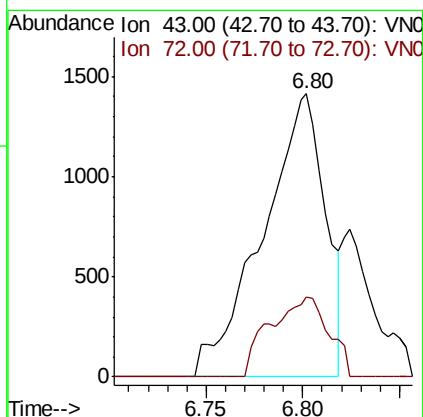
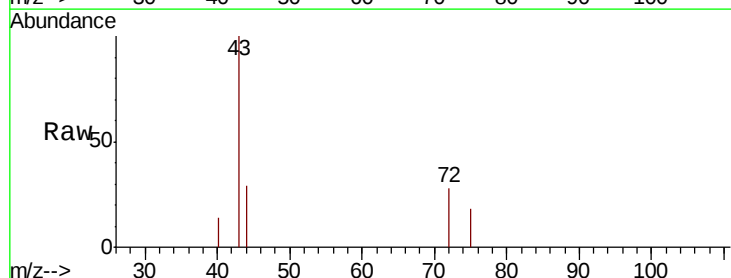
Instrument :
MSVOA_N
ClientSampled :
SP2-H

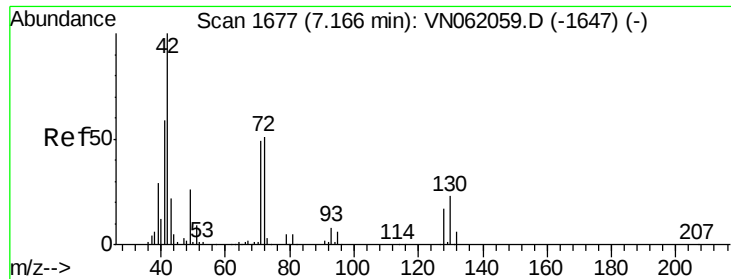
Tot Ion:	84	Resp:	18234
Ion	Ratio	Lower	Upper
84	100		
49	121.3	90.6	136.0
51	36.9	27.8	41.8
86	63.9	50.1	75.1



#25
2-Butanone
Concen: 2.248 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062277.D
Acq: 1 Jul 2020 7:32

Tgt Ion:	43	Resp:	3175
Ion	Ratio	Lower	Upper
43	100		
72	28.1	24.8	37.2

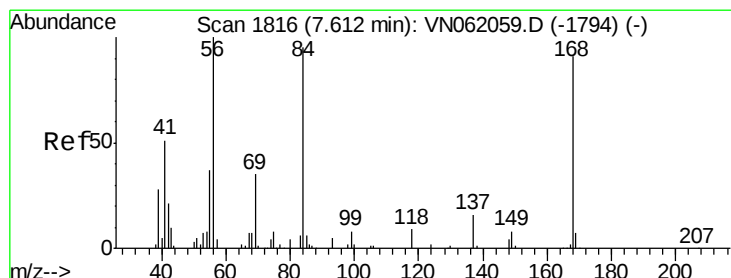
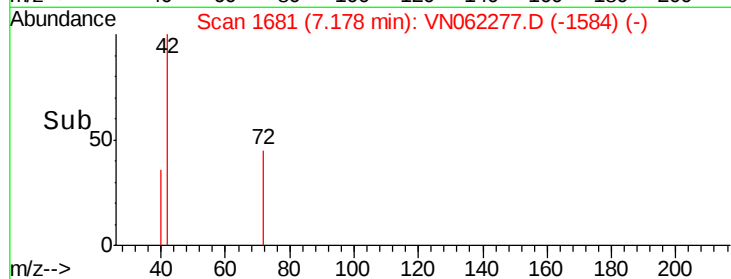
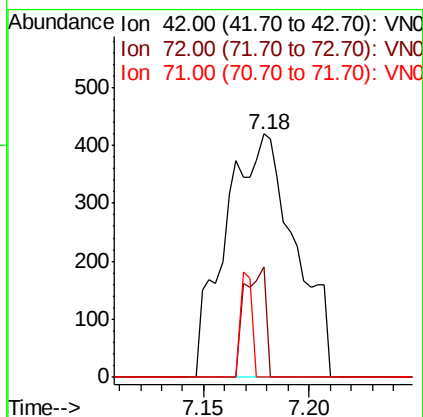
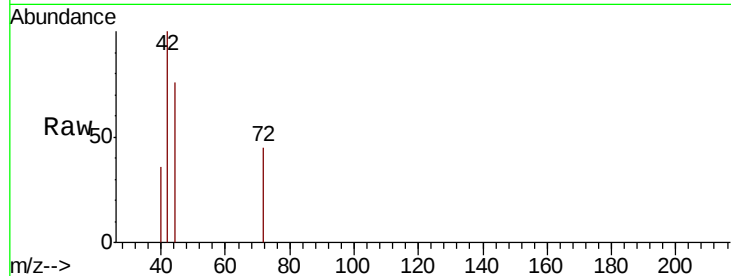




#29
Tetrahydrofuran
Concen: 1.042 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN062277.D
Acq: 1 Jul 2020 7:32

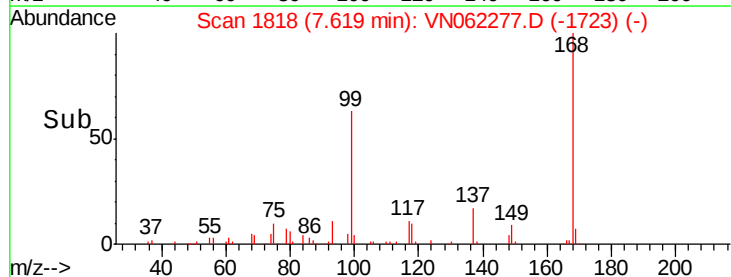
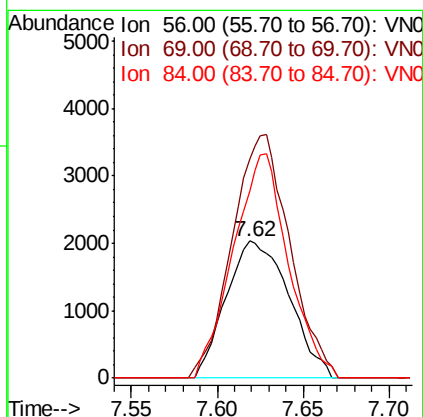
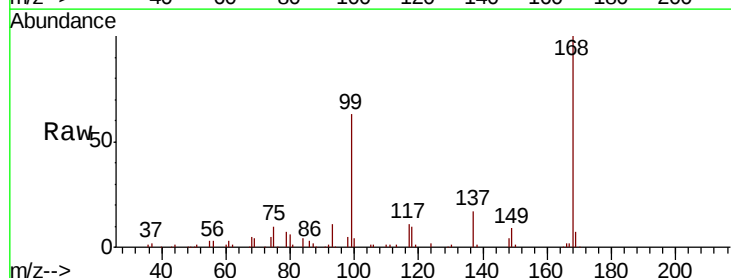
Instrument :
MSVOA_N
ClientSampled :
SP2-H

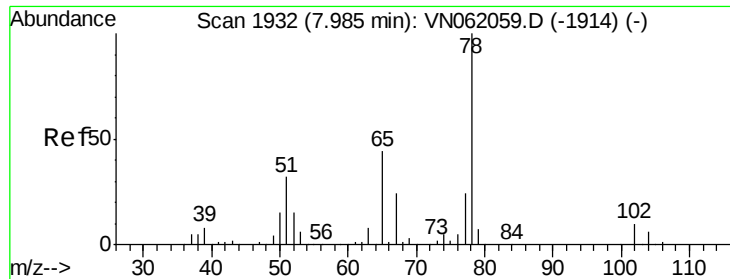
Tot Ion: 42 Resp: 964
Ion Ratio Lower Upper
42 100
72 13.5 41.1 61.7#
71 7.1 38.2 57.4#



#31
Cyclohexane
Concen: 1.300 ug/l
RT: 7.62 min Scan# 1818
Delta R.T. 0.01 min
Lab File: VN062277.D
Acq: 1 Jul 2020 7:32

Tgt Ion: 56 Resp: 5188
Ion Ratio Lower Upper
56 100
69 160.4 28.0 42.0#
84 136.9 76.1 114.1#

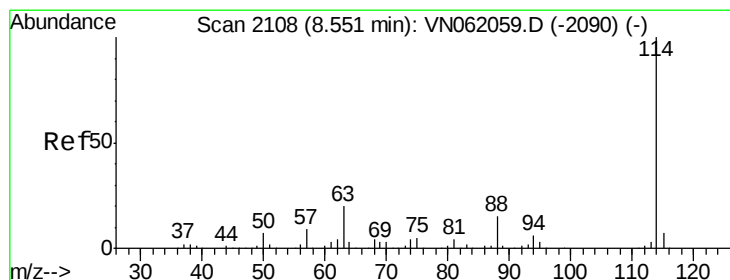
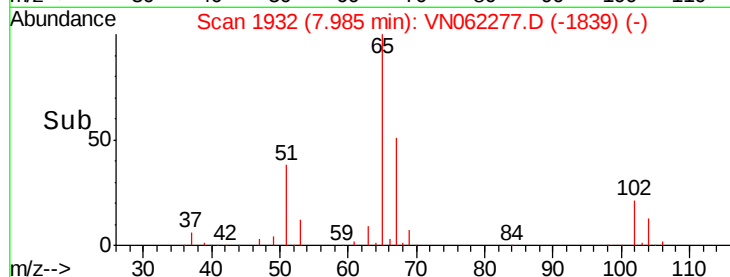
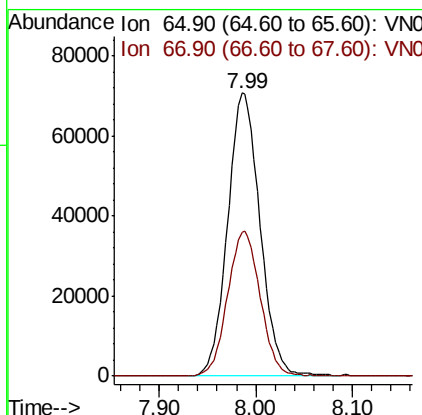
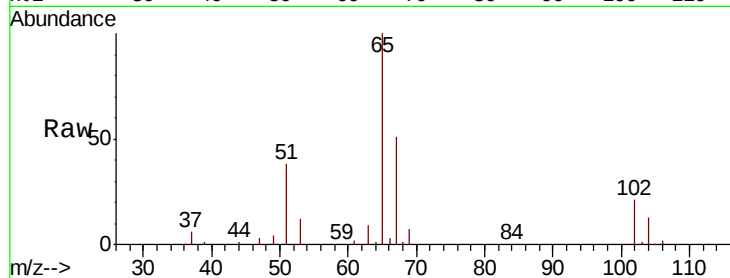




#33
 1,2-Dichloroethane-d4
 Concen: 57.011 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

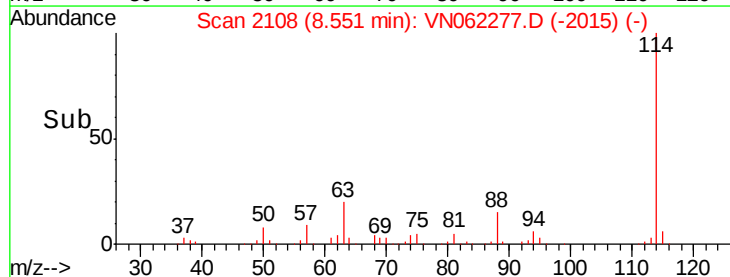
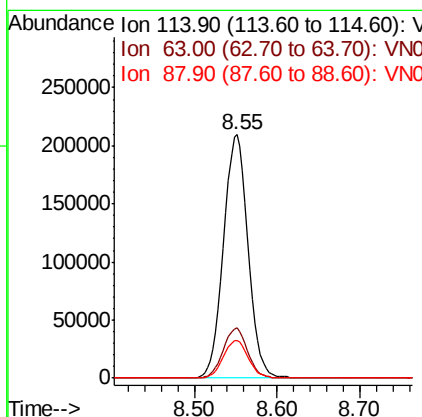
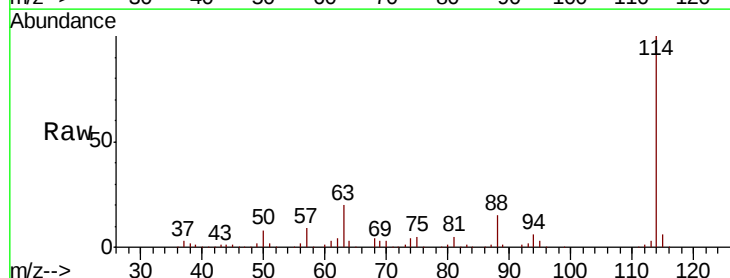
Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-H

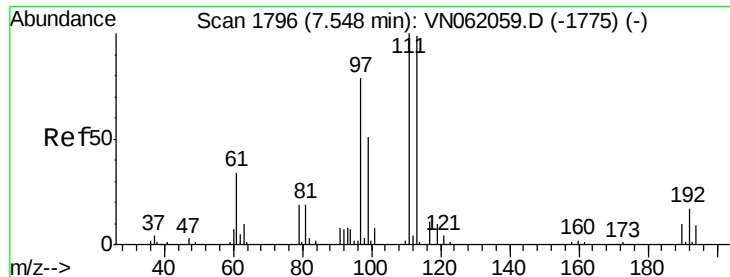
Tot Ion: 65 Resp: 164713
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Tgt Ion: 114 Resp: 430593
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.2
 88 15.5 0.0 30.8

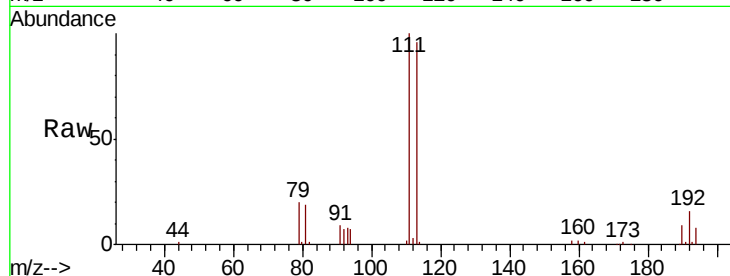




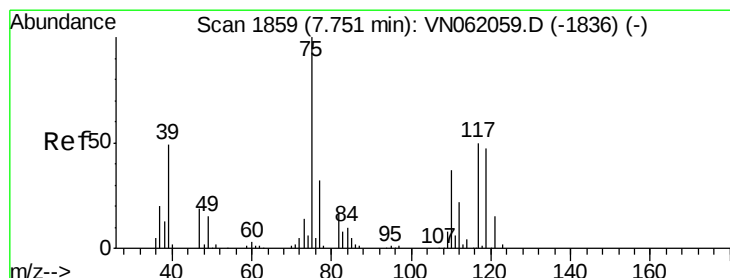
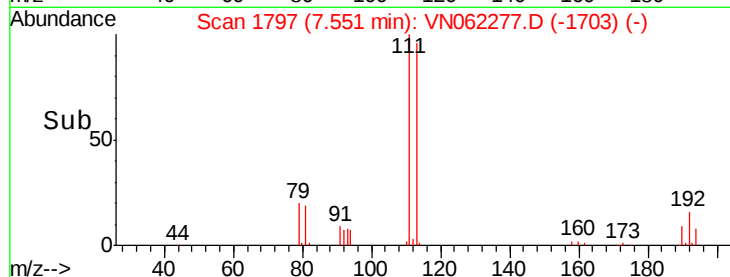
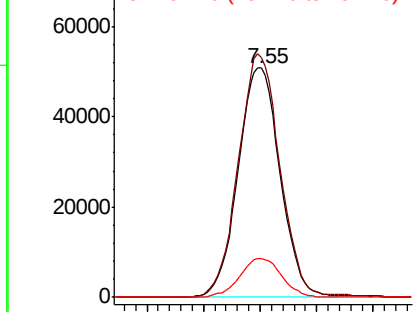
#35
 Dibromofluoromethane
 Concen: 47.490 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-H

Tot Ion:113 Resp: 131190
 Ion Ratio Lower Upper
 113 100
 111 104.6 82.2 123.4
 192 17.0 14.0 21.0

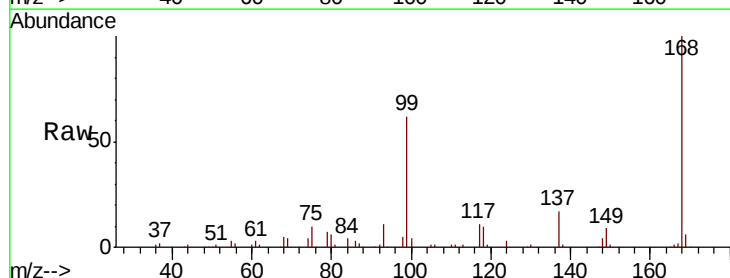


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

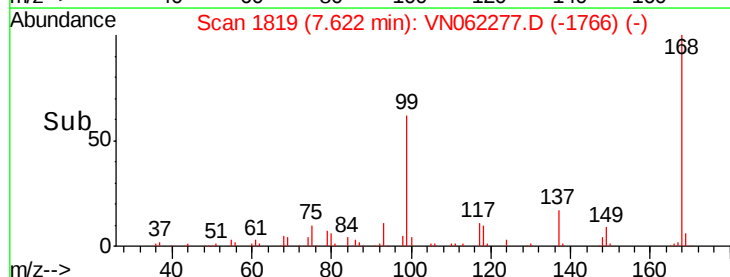
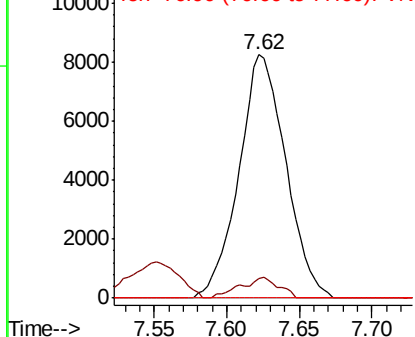


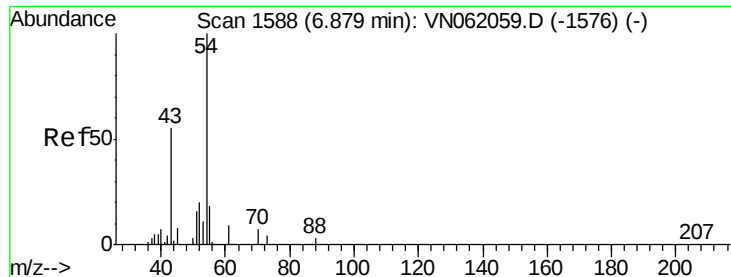
#36
 1,1-Dichloropropene
 Concen: 4.287 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Tgt Ion: 75 Resp: 18555
 Ion Ratio Lower Upper
 75 100
 110 7.0 17.9 53.8#
 77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 0.886 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.08 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

Instrument :

MSVOA_N

ClientSampleId :

SP2-H

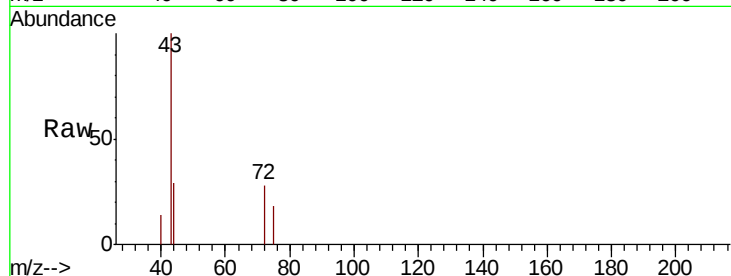
Tot Ion: 43 Resp: 3175

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

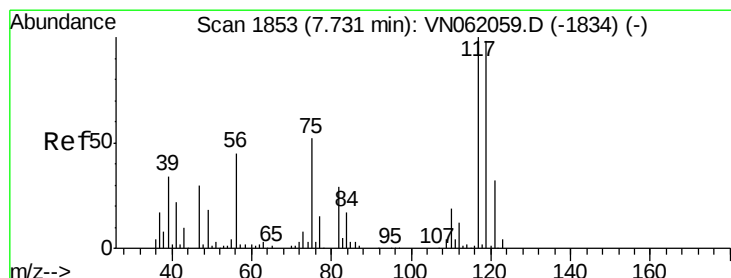
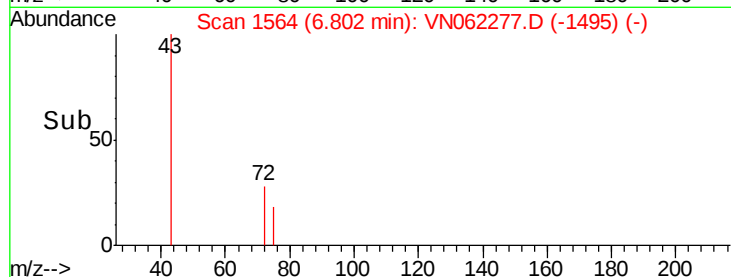
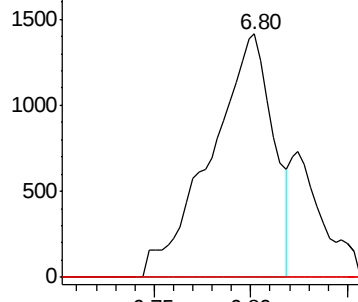
70 0.0 9.6 14.4#



Abundance Ion 43.00 (42.70 to 43.70): VN062277.D (-1576) (-)

Ion 60.90 (60.60 to 61.60): VN062277.D (-1576) (-)

Ion 70.00 (69.70 to 70.70): VN062277.D (-1576) (-)



#38

Carbon Tetrachloride

Concen: 5.432 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

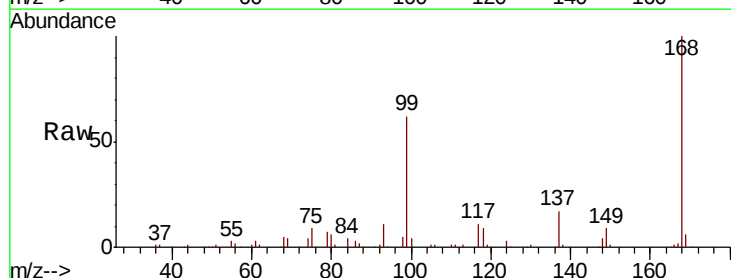
Tgt Ion: 117 Resp: 22163

Ion Ratio Lower Upper

117 100

119 5.8 78.2 117.2#

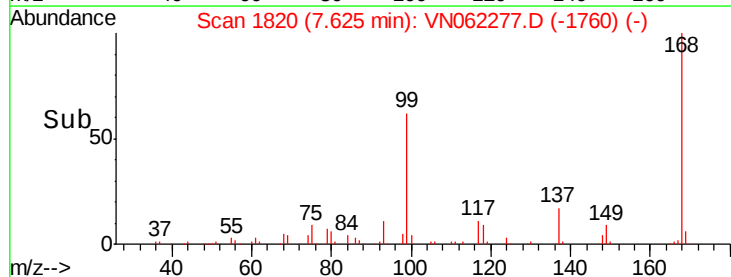
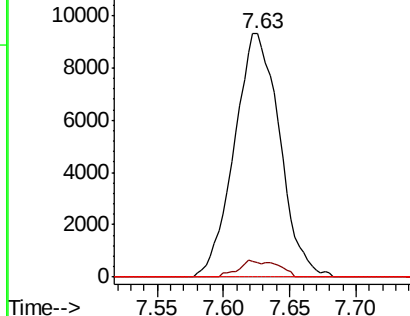
121 0.0 25.8 38.6#

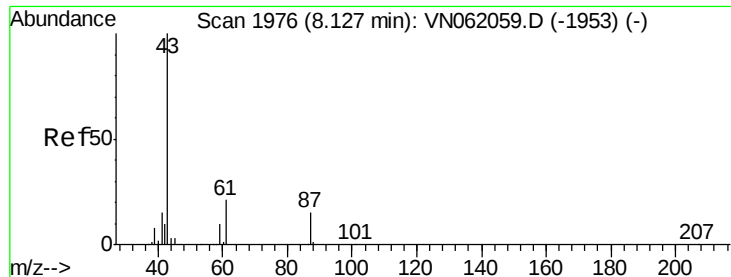


Abundance Ion 116.80 (116.50 to 117.50): VN062277.D (-1760) (-)

Ion 118.80 (118.50 to 119.50): VN062277.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062277.D (-1760) (-)





#43

Isopropyl Acetate

Concen: 7.090 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

Instrument :

MSVOA_N

ClientSampleId :

SP2-H

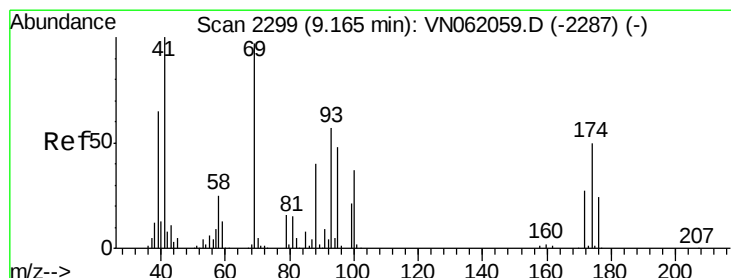
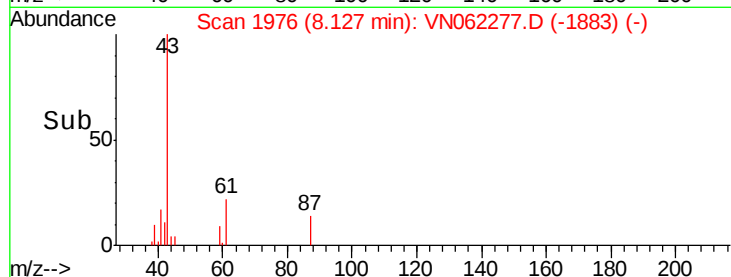
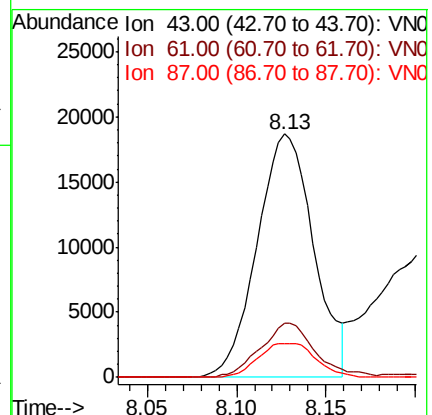
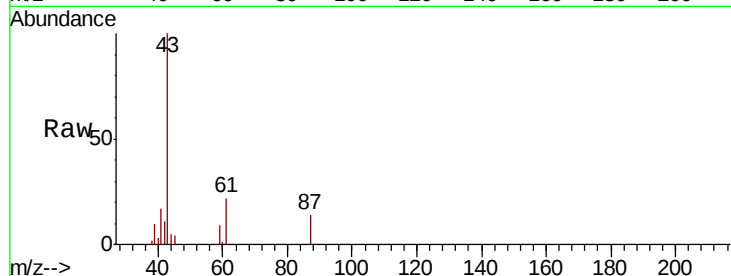
Tot Ion: 43 Resp: 41424

Ion Ratio Lower Upper

43 100

61 21.5 17.2 25.8

87 14.2 12.1 18.1



#48

Methyl methacrylate

Concen: 1.263 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

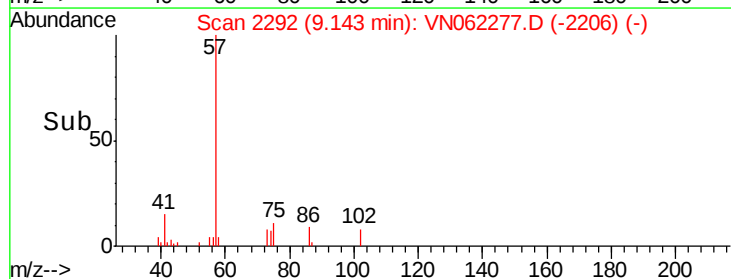
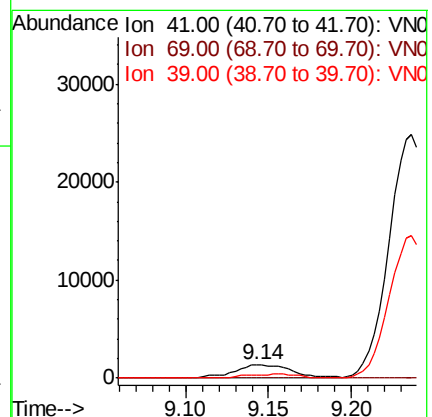
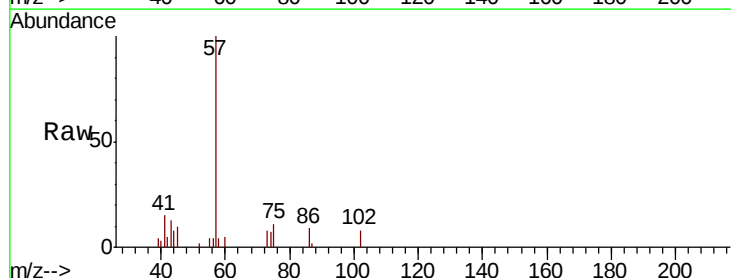
Tgt Ion: 41 Resp: 3308

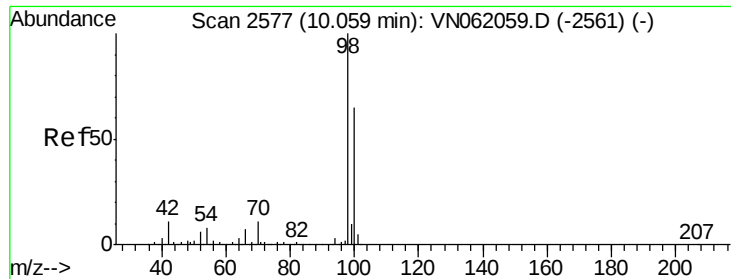
Ion Ratio Lower Upper

41 100

69 0.0 80.7 121.1#

39 26.6 54.5 81.7#





#50

Toluene-d8

Concen: 49.553 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

Instrument :

MSVOA_N

ClientSampled :

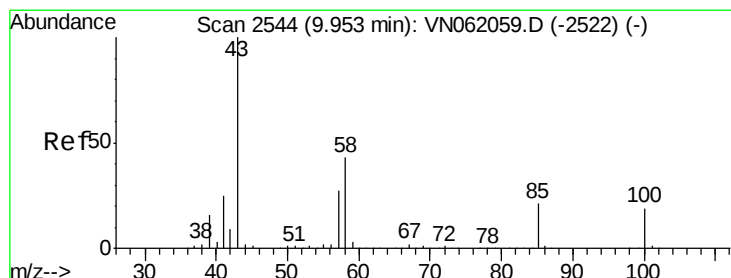
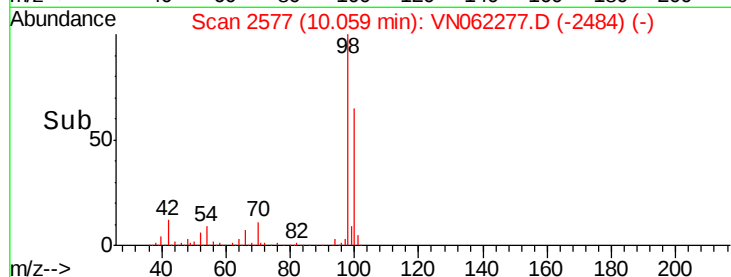
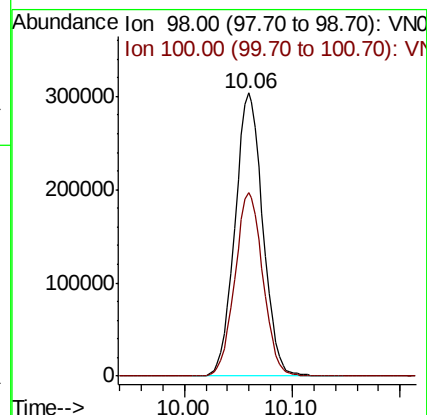
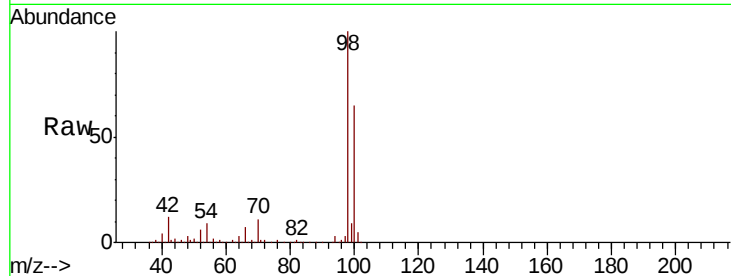
SP2-H

Tot Ion: 98 Resp: 547192

Ion Ratio Lower Upper

98 100

100 65.2 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 2.125 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062277.D

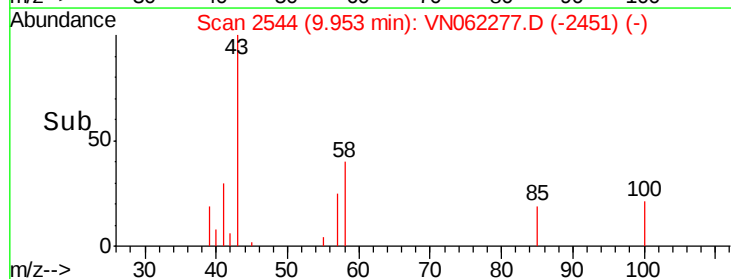
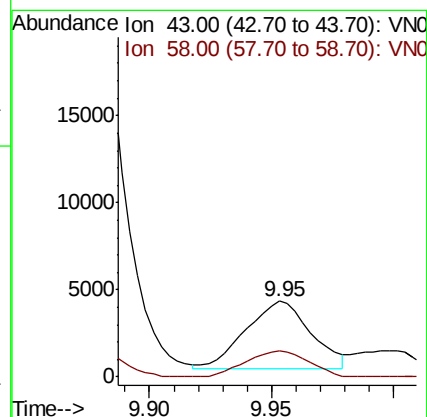
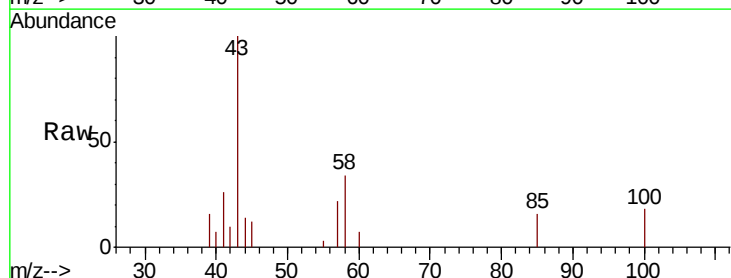
Acq: 1 Jul 2020 7:32

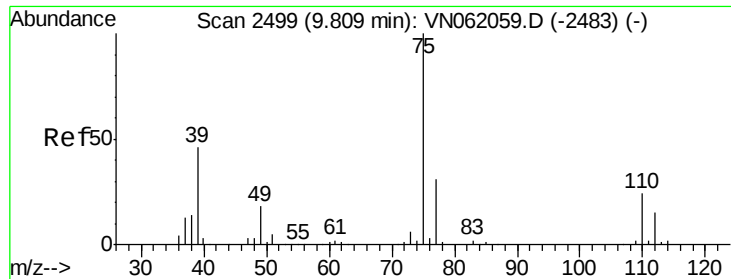
Tgt Ion: 43 Resp: 7253

Ion Ratio Lower Upper

43 100

58 36.7 34.2 51.2

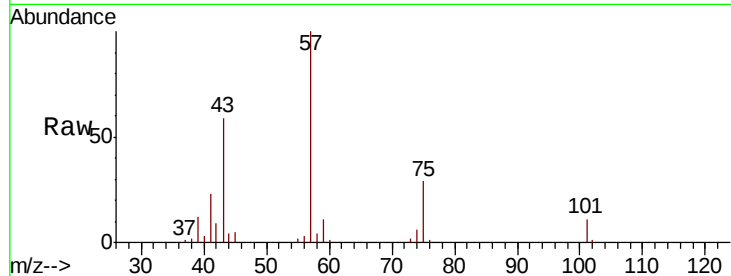




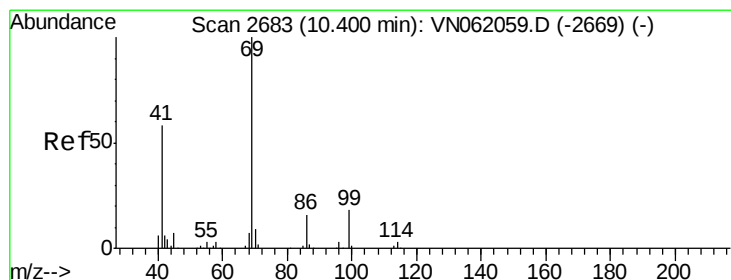
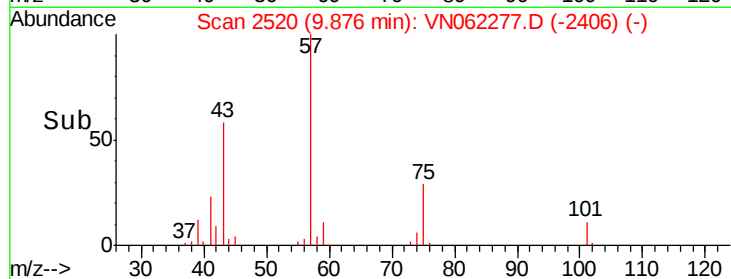
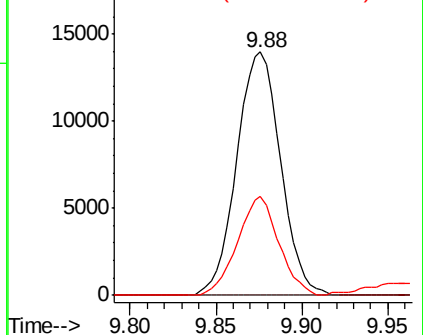
#54
 cis-1,3-Dichloropropene
 Concen: 4.744 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-H

Tot Ion: 75 Resp: 24756
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 40.4 36.9 55.3

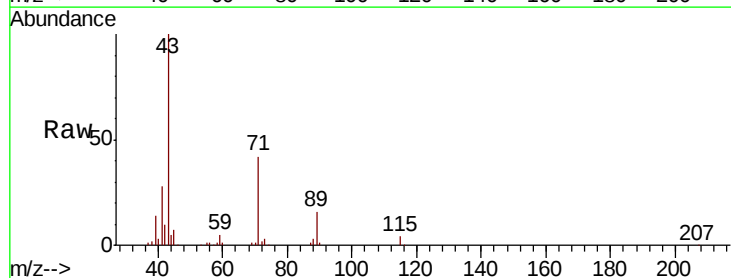


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

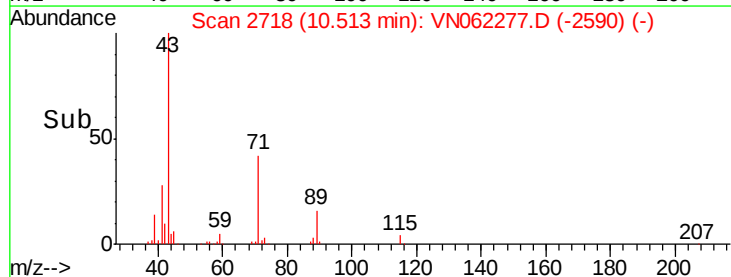
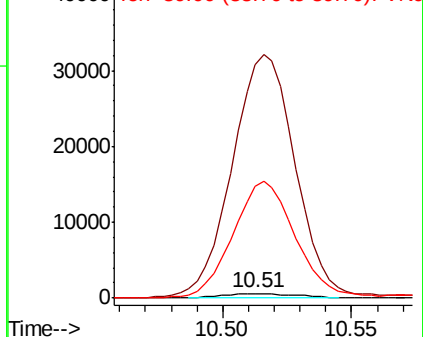


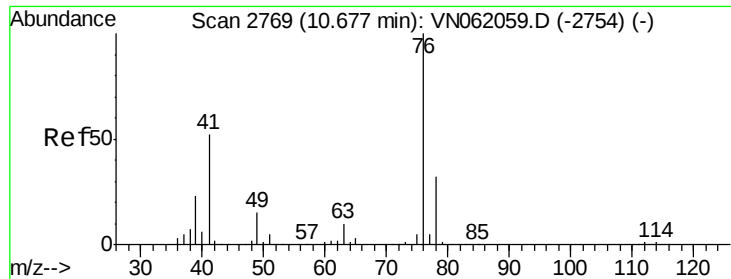
#56
 Ethyl methacrylate
 Concen: 0.282 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Tgt Ion: 69 Resp: 1191
 Ion Ratio Lower Upper
 69 100
 41 4625.4 46.6 70.0#
 39 2186.6 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0

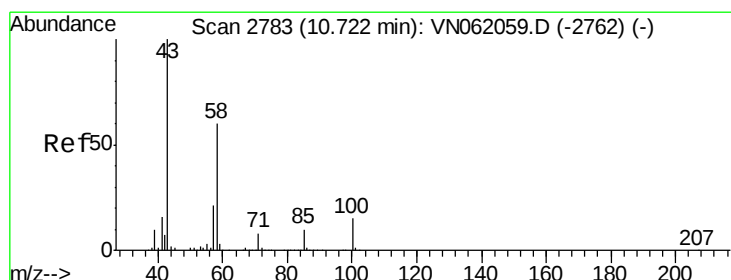
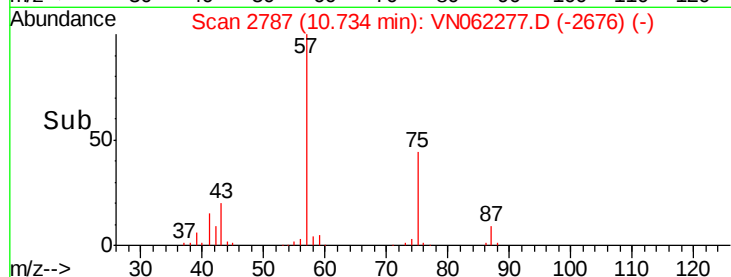
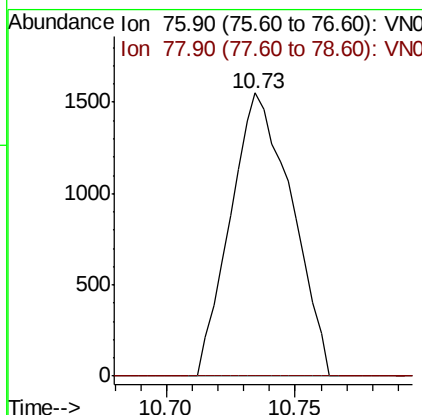
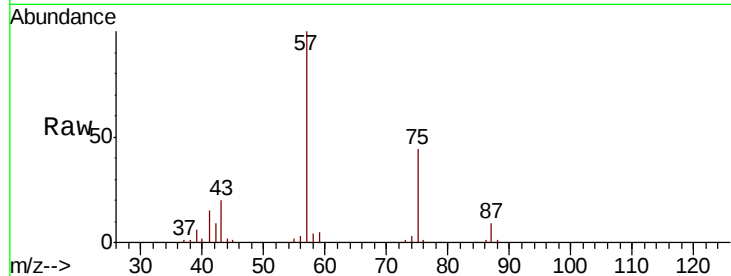




#57
 1,3-Dichloropropane
 Concen: 0.471 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

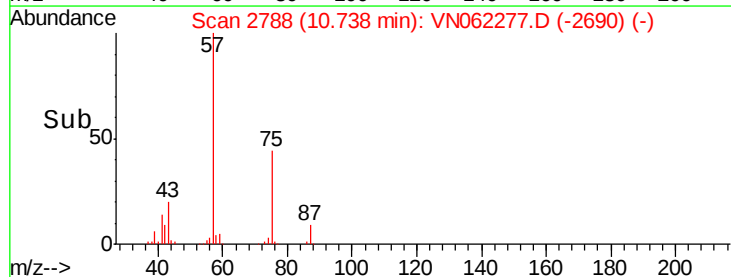
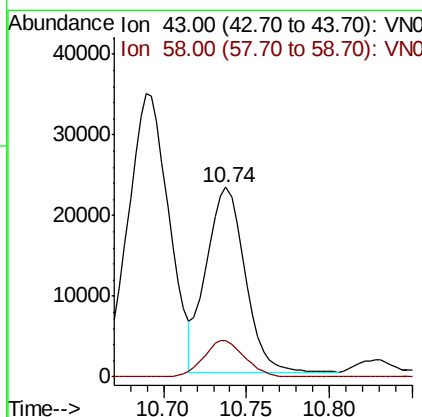
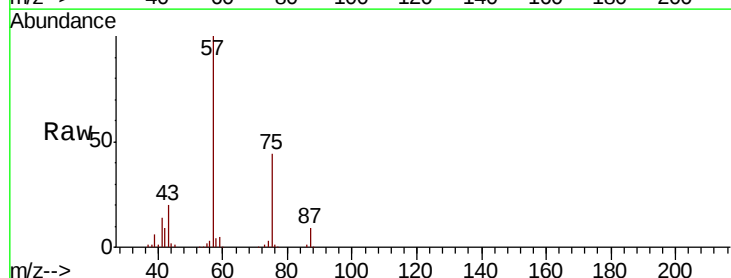
Instrument :
 MSVOA_N
 ClientSampled :
 SP2-H

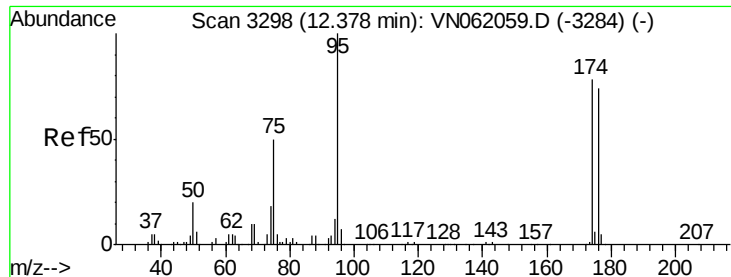
Tot Ion: 76 Resp: 2563
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 15.120 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Tgt Ion: 43 Resp: 37268
 Ion Ratio Lower Upper
 43 100
 58 20.7 29.5 88.5#

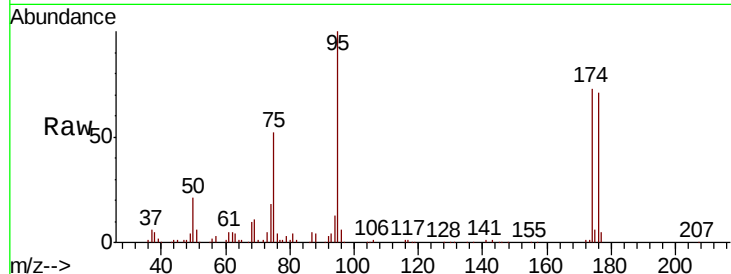




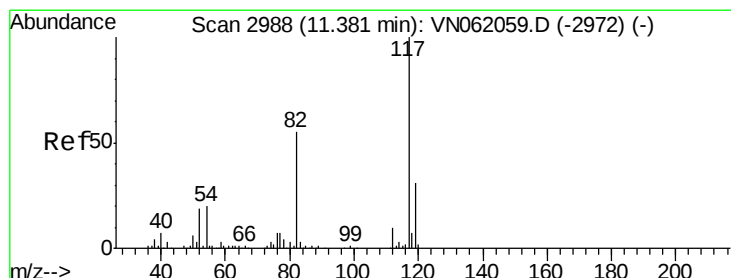
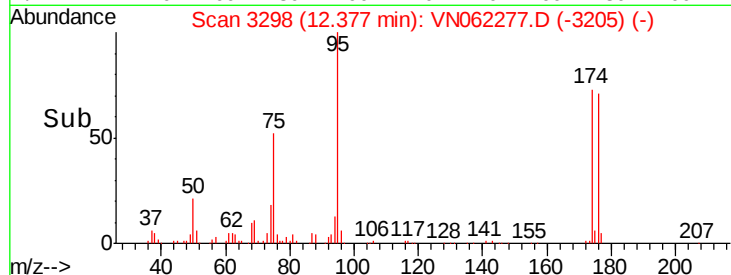
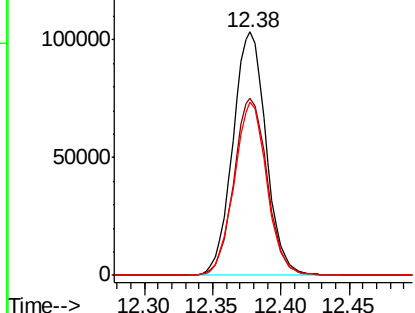
#62
4-Bromofluorobenzene
Concen: 46.946 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062277.D
Acq: 1 Jul 2020 7:32

Instrument :
MSVOA_N
ClientSampleId :
SP2-H

Tot Ion: 95 Resp: 175146
Ion Ratio Lower Upper
95 100
174 73.0 0.0 154.8
176 69.9 0.0 147.4

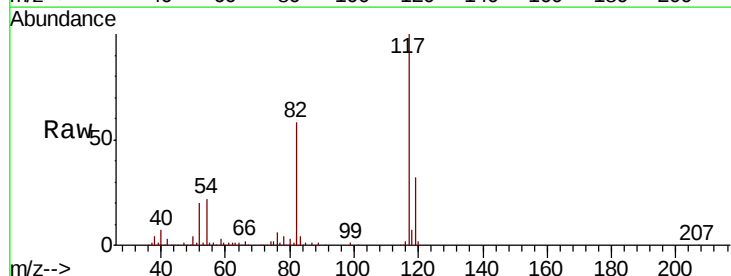


Abundance Ion 94.90 (94.60 to 95.60): VN062277.D (-3205) (-)
Ion 173.80 (173.50 to 174.50): VN062277.D (-3205) (-)
Ion 175.80 (175.50 to 176.50): VN062277.D (-3205) (-)

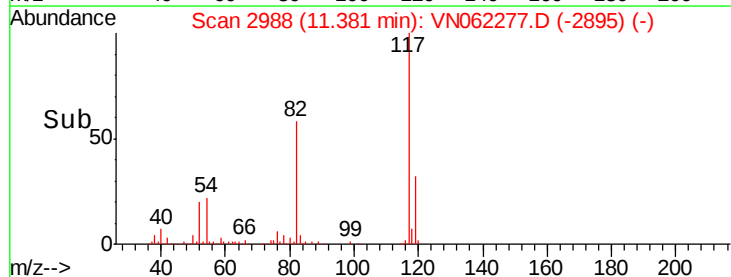
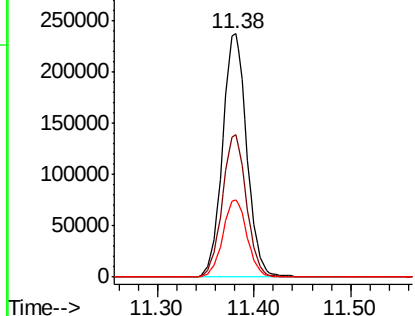


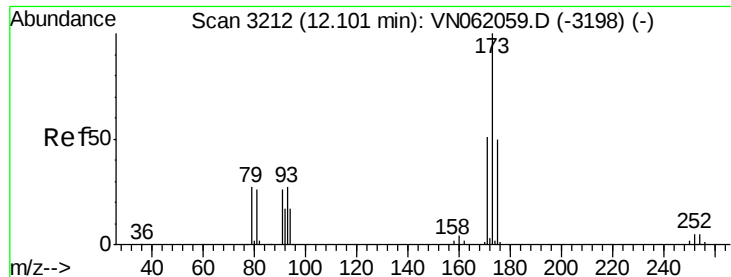
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062277.D
Acq: 1 Jul 2020 7:32

Tgt Ion: 117 Resp: 411387
Ion Ratio Lower Upper
117 100
82 58.3 43.8 65.8
119 31.8 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN062277.D (-2895) (-)
Ion 82.00 (81.70 to 82.70): VN062277.D (-2895) (-)
Ion 118.90 (118.60 to 119.60): VN062277.D (-2895) (-)





#71

Bromoform

Concen: 0.564 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

Instrument :

MSVOA_N

ClientSampled :

SP2-H

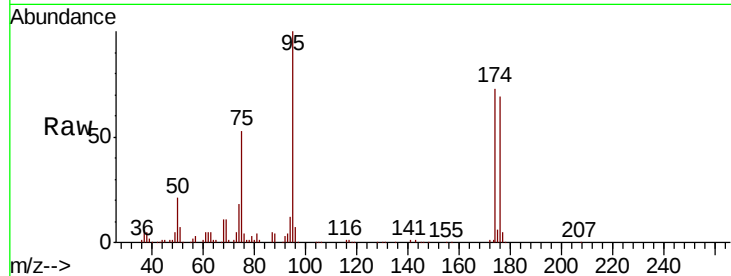
Tot Ion:173 Resp: 1252

Ion Ratio Lower Upper

173 100

175 705.4 24.7 74.1#

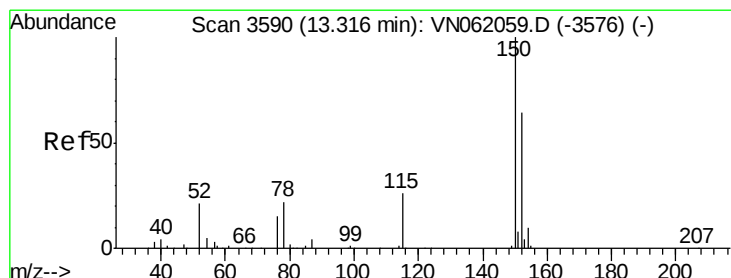
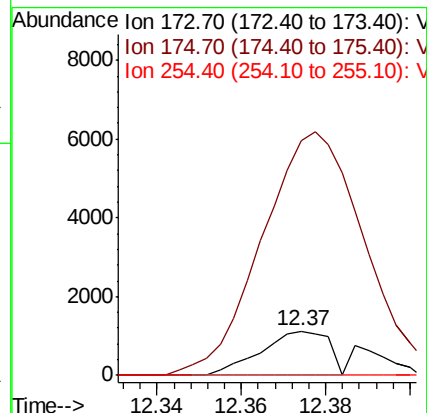
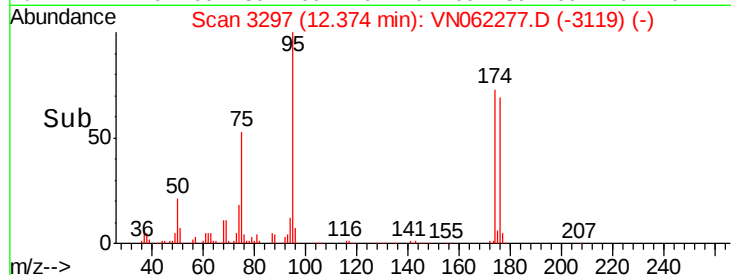
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

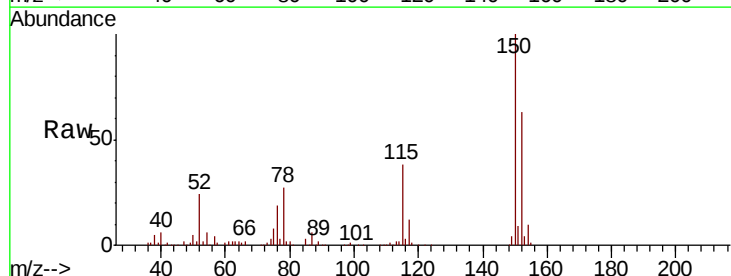
Tgt Ion:152 Resp: 149823

Ion Ratio Lower Upper

152 100

115 60.2 29.5 88.5

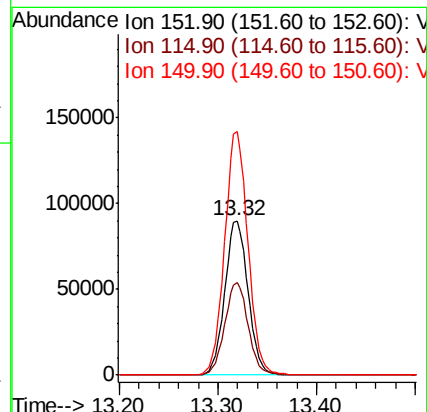
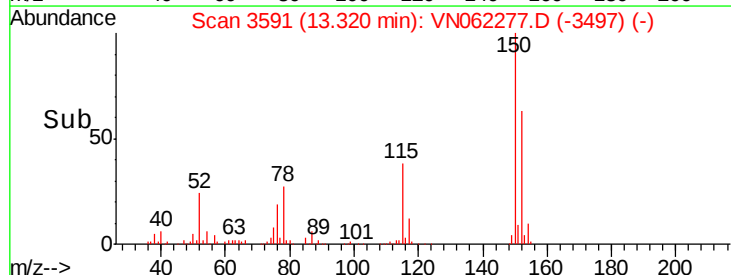
150 157.2 0.0 351.4

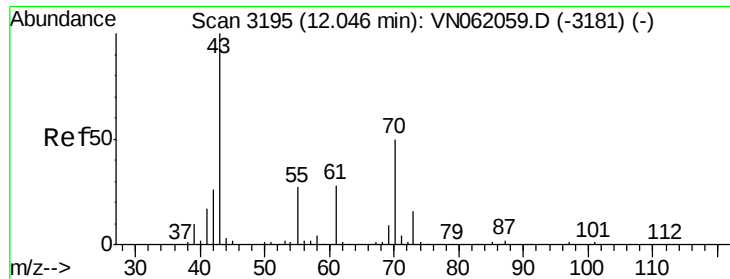


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.683 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062277.D

Acq: 1 Jul 2020 7:32

Instrument :

MSVOA_N

ClientSampleId :

SP2-H

Tot Ion: 43 Resp: 1553

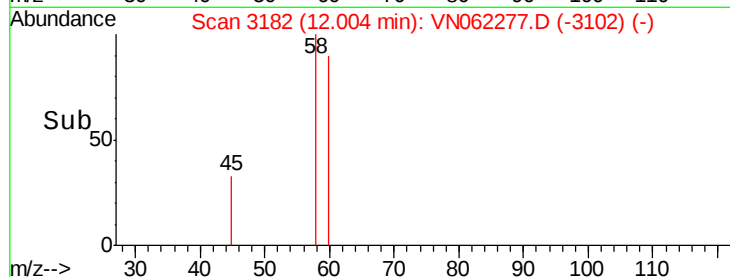
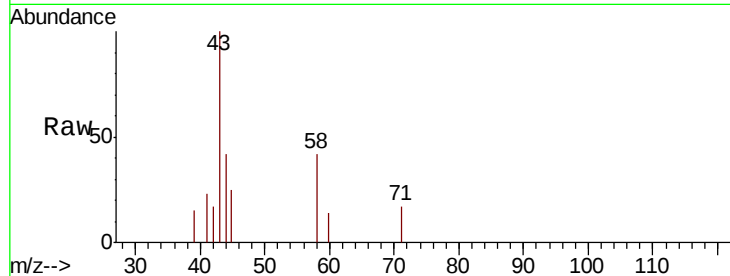
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 6.1 21.7 32.5#

61 0.0 21.3 31.9#

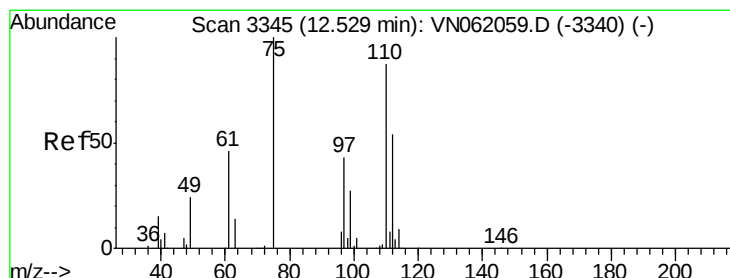
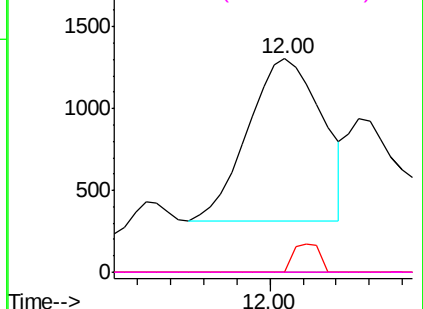


Abundance Ion 43.00 (42.70 to 43.70): VN062277.D (-3102) (-)

Ion 70.00 (69.70 to 70.70): VN062277.D (-3102) (-)

Ion 55.00 (54.70 to 55.70): VN062277.D (-3102) (-)

Ion 61.00 (60.70 to 61.70): VN062277.D (-3102) (-)



#76

1,2,3-Trichloropropane

Concen: 25.863 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062277.D

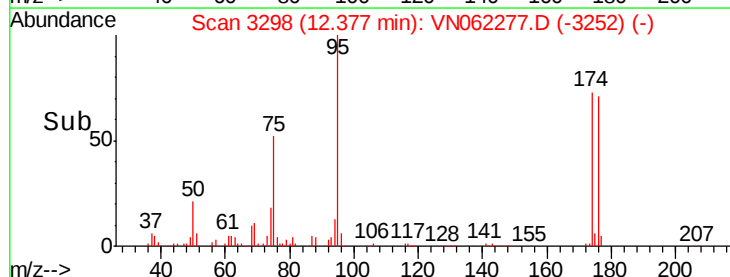
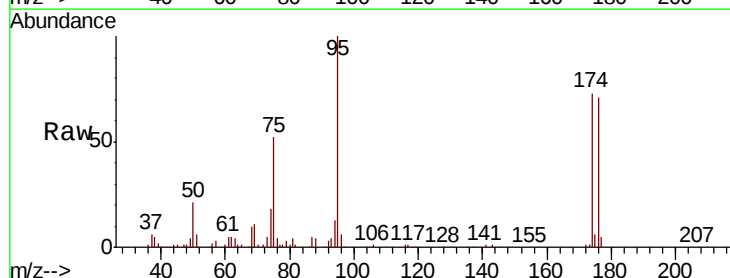
Acq: 1 Jul 2020 7:32

Tgt Ion: 75 Resp: 91218

Ion Ratio Lower Upper

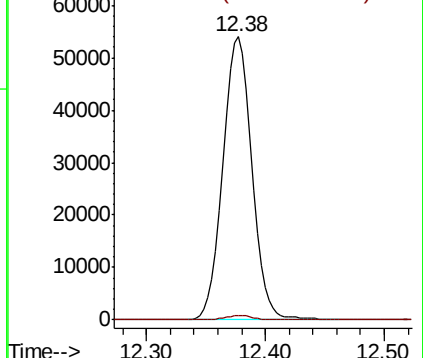
75 100

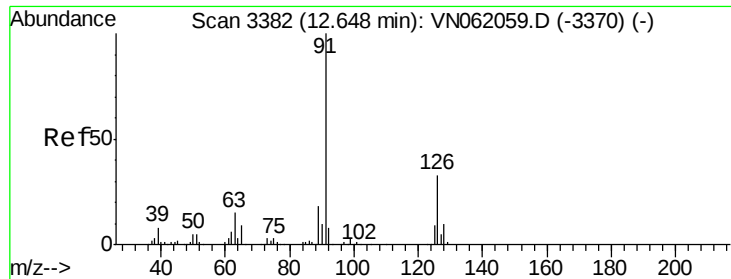
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062277.D (-3252) (-)

Ion 77.00 (76.70 to 77.70): VN062277.D (-3252) (-)

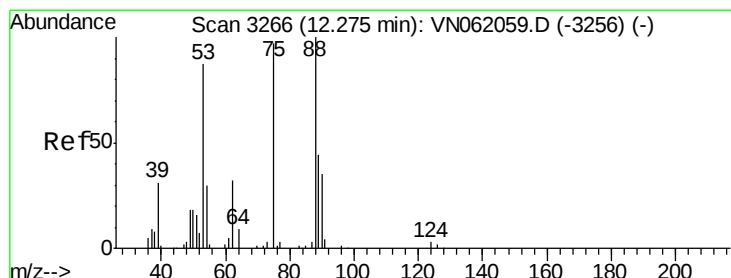
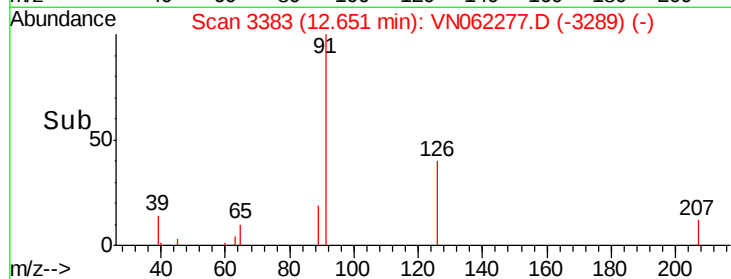
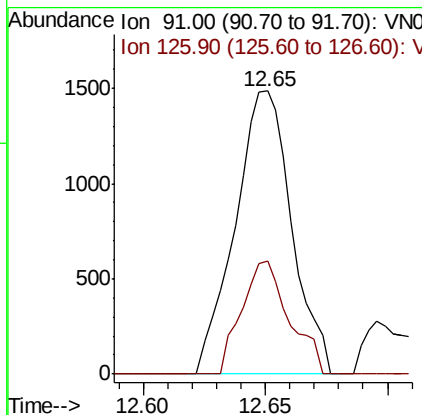
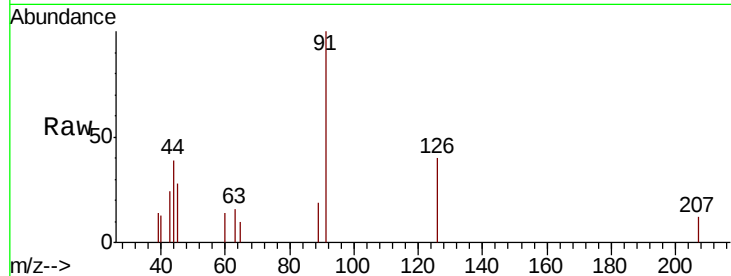




#79
 2-Chlorotoluene
 Concen: 0.297 ug/l
 RT: 12.65 min Scan# 3383
 Delta R.T. 0.00 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

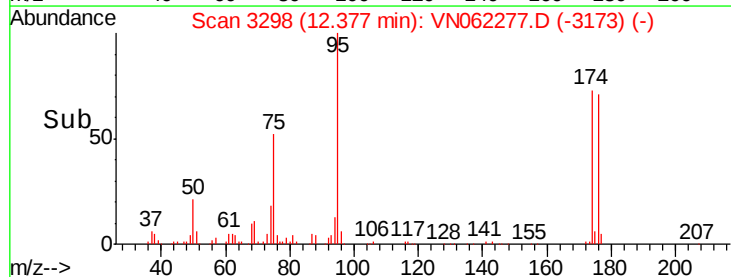
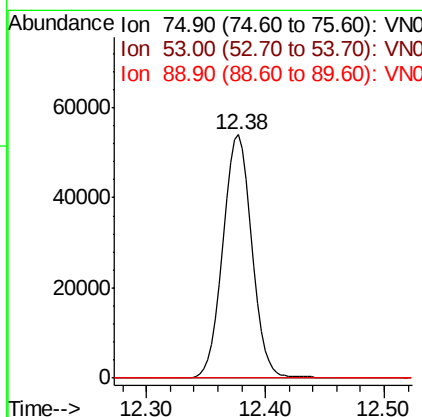
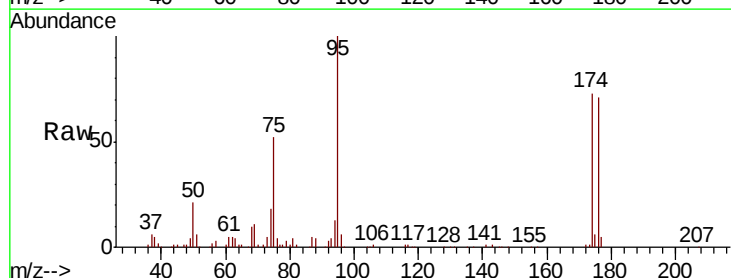
Instrument :
 MSVOA_N
 ClientSampled :
 SP2-H

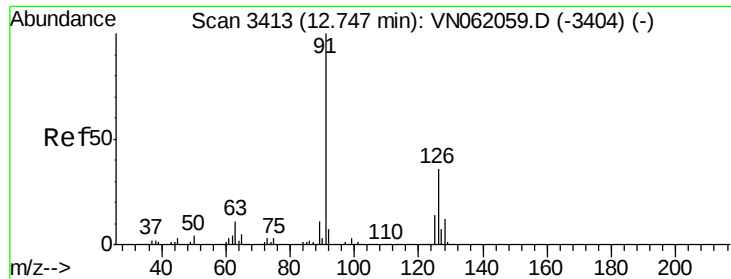
Tot Ion: 91 Resp: 2383
 Ion Ratio Lower Upper
 91 100
 126 33.5 16.9 50.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.530 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Tgt Ion: 75 Resp: 91218
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.0 108.0#
 89 0.0 36.9 55.3#





#82
 4-Chlorotoluene
 Concen: 0.319 ug/l
 RT: 12.75 min Scan# 3414
 Delta R.T. 0.00 min
 Lab File: VN062277.D
 Acq: 1 Jul 2020 7:32

Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-H

Tot Ion: 91 Resp: 2642
 Ion Ratio Lower Upper
 91 100
 126 25.1 16.7 50.1

