

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072820\
 Data File : VN062635.D
 Acq On : 28 Jul 2020 16:43
 Operator : JC/MD
 Sample : PB130523ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 29 04:27:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	149945	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	270906	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	279278	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	94179	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	128075	54.98	ug/l	0.00
Spiked Amount			Recovery	=	109.96%	
35) Dibromofluoromethane	7.55	113	90679	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
50) Toluene-d8	10.06	98	364057	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
62) 4-Bromofluorobenzene	12.37	95	122540	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	

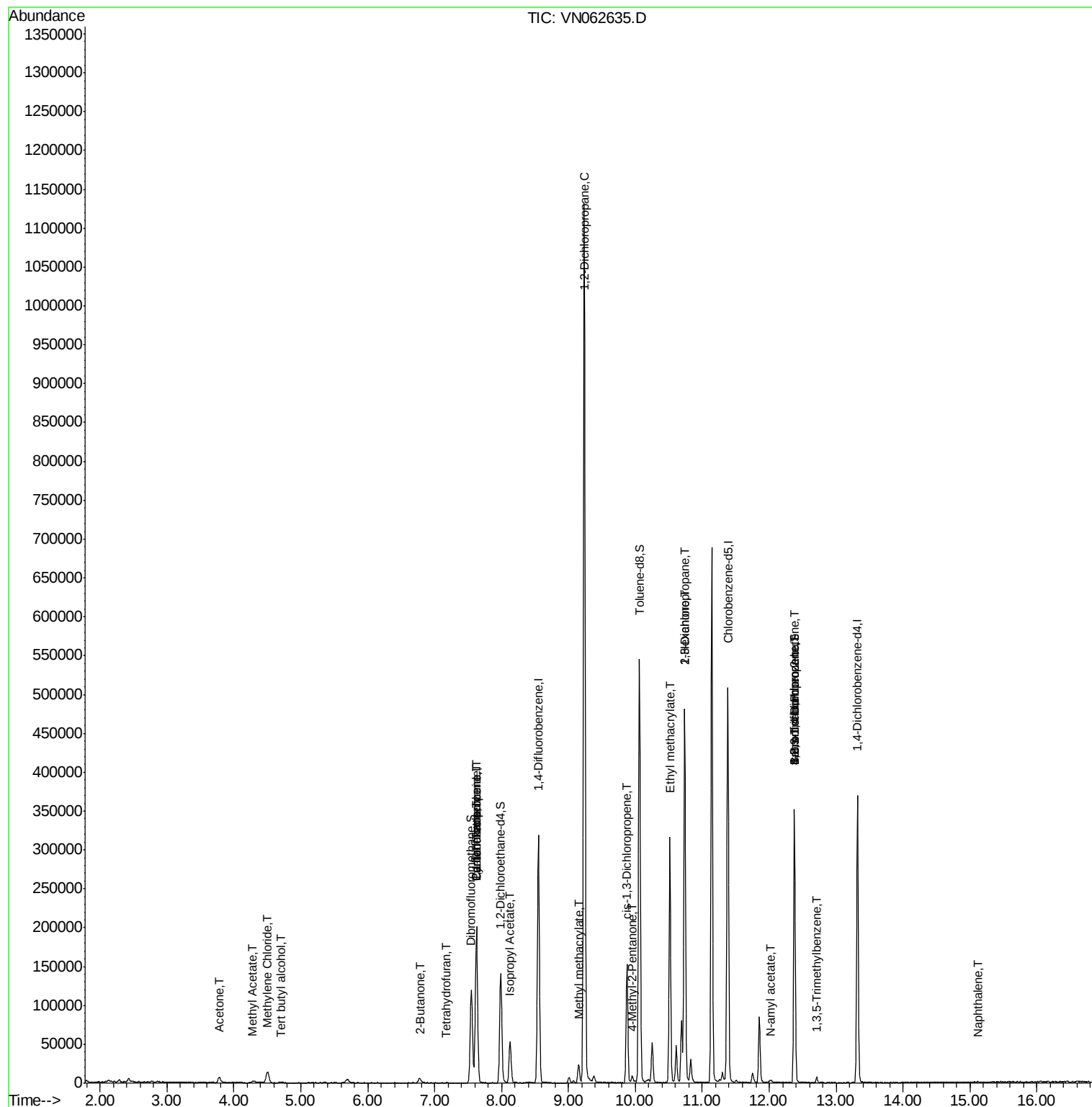
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	299	0.807	ug/l #	73
16) Acetone	3.78	43	13397	15.284	ug/l	92
18) Methyl Acetate	4.28	43	4409	1.987	ug/l #	84
20) Methylene Chloride	4.50	84	10096	4.802	ug/l	95
25) 2-Butanone	6.80	43	1778	1.332	ug/l	99
29) Tetrahydrofuran	7.17	42	233	0.258	ug/l #	38
31) Cyclohexane	7.63	56	3792	1.105	ug/l #	3
36) 1,1-Dichloropropene	7.63	75	13704	4.746	ug/l #	50
38) Carbon Tetrachloride	7.63	117	16100	5.801	ug/l #	17
43) Isopropyl Acetate	8.13	43	63864	12.727	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1203	0.490	ug/l #	44
48) Methyl methacrylate	9.15	41	3176	1.331	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	6545	2.180	ug/l	90
54) cis-1,3-Dichloropropene	9.88	75	25625	6.980	ug/l #	64
56) Ethyl methacrylate	10.51	69	1315	2.128	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4874	1.351	ug/l #	42
59) 2-Hexanone	10.74	43	72278	33.719	ug/l #	54
71) Bromoform	12.37	173	645	0.390	ug/l #	1
74) N-amyl acetate	12.01	43	2895	0.871	ug/l #	45
76) 1,2,3-Trichloropropane	12.37	75	68423	28.543	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	5139	0.832	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.37	75	68423	79.457	ug/l #	12
95) Naphthalene	15.11	128	101	3.784	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 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: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

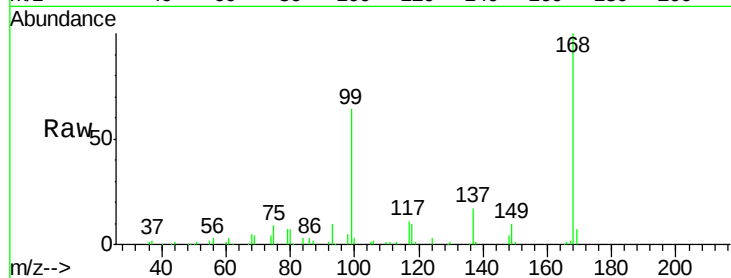
ClientSampled :

Tot Ion:168 Resp: 149945

Ion Ratio Lower Upper

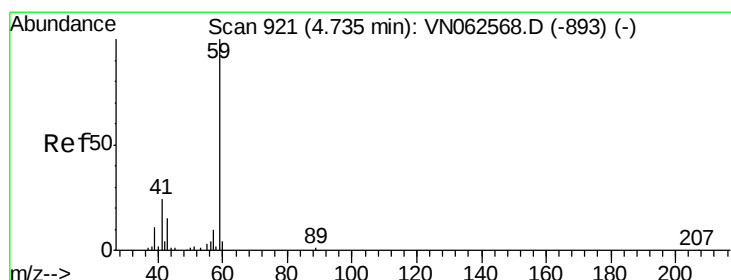
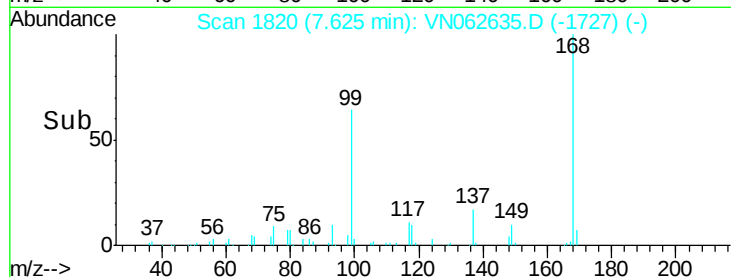
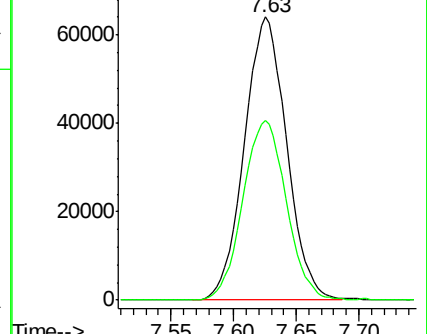
168 100

99 63.5 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.807 ug/l

RT: 4.70 min Scan# 910

Delta R.T. -0.04 min

Lab File: VN062635.D

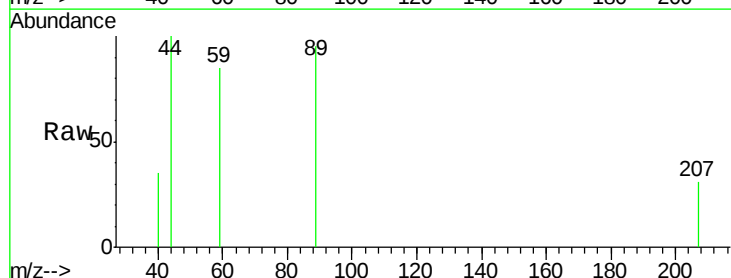
Acq: 28 Jul 2020 16:43

Tgt Ion: 59 Resp: 299

Ion Ratio Lower Upper

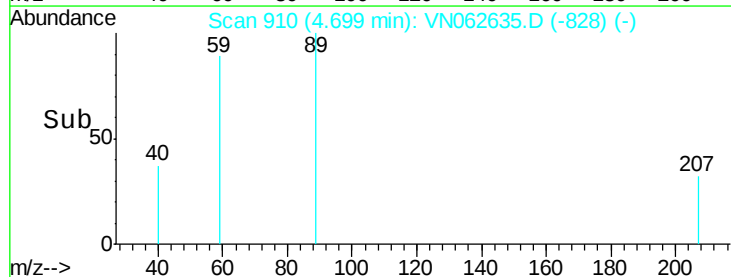
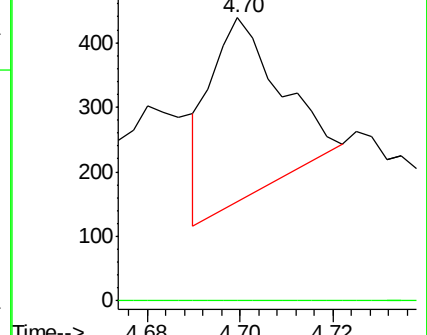
59 100

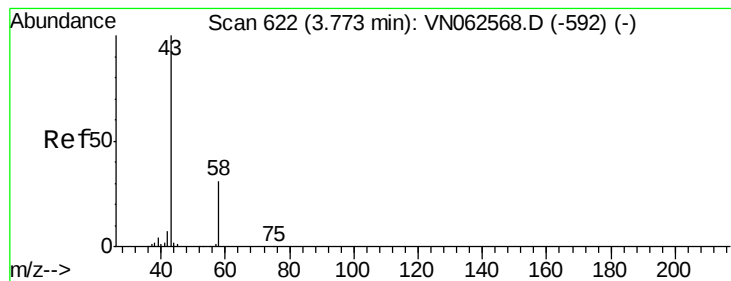
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 15.284 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

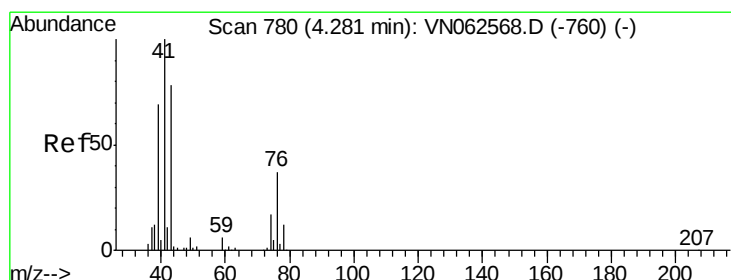
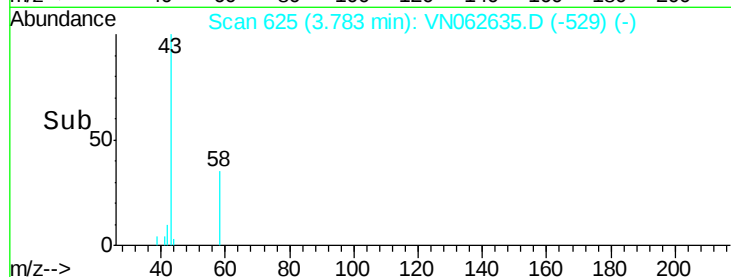
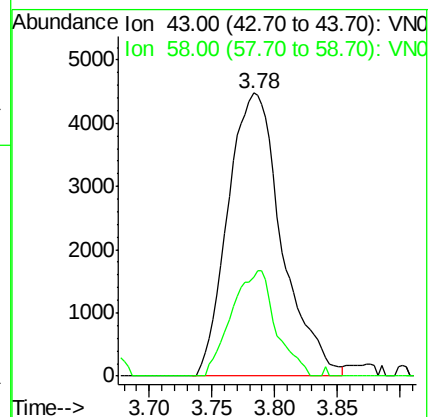
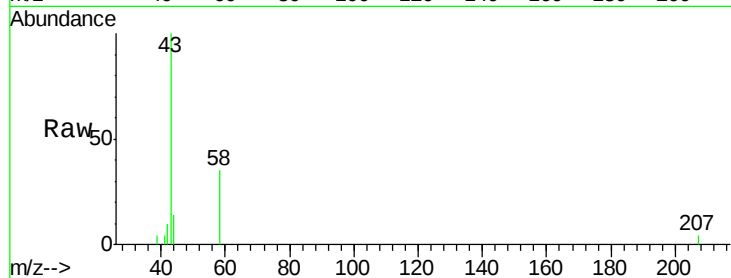
ClientSampled :

Tot Ion: 43 Resp: 13397

Ion Ratio Lower Upper

43 100

58 35.0 24.6 37.0



#18

Methyl Acetate

Concen: 1.987 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.00 min

Lab File: VN062635.D

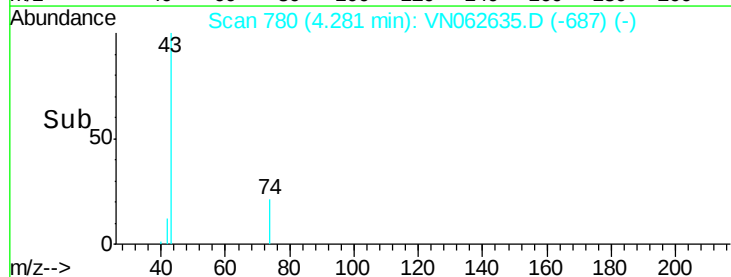
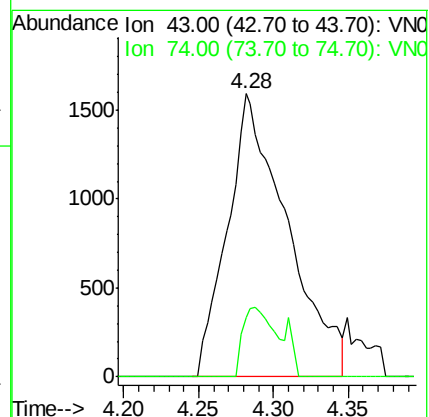
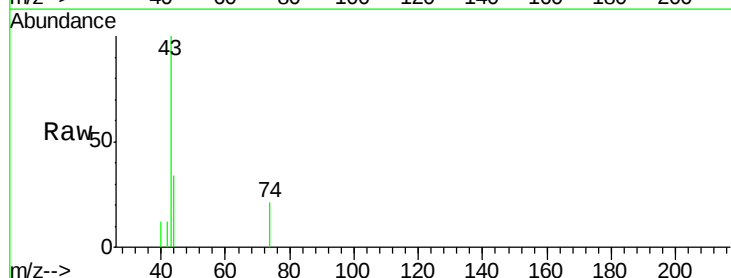
Acq: 28 Jul 2020 16:43

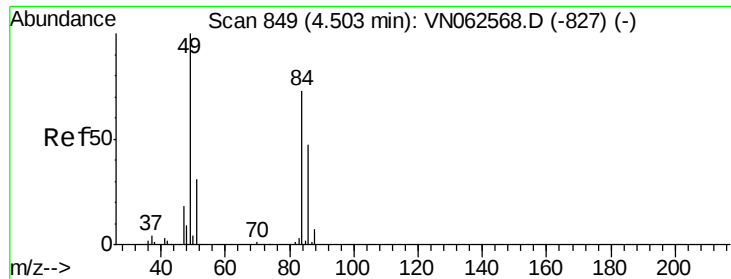
Tgt Ion: 43 Resp: 4409

Ion Ratio Lower Upper

43 100

74 13.1 16.6 24.8#

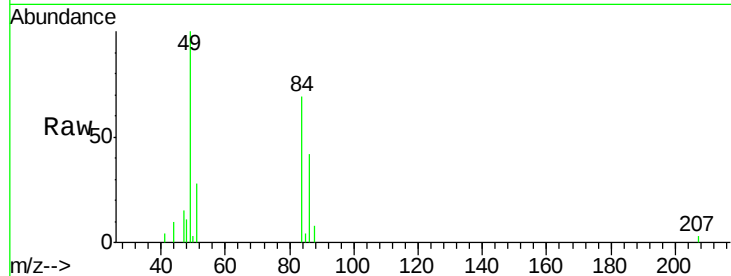




#20
Methvlene Chloride
Concen: 4.802 ug/l
RT: 4.50 min Scan# 847
Delta R.T. -0.01 min
Lab File: VN062635.D
Acq: 28 Jul 2020 16:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	10096
Ion	Ratio	Lower	Upper
84	100		
49	145.6	109.4	164.0
51	41.0	33.6	50.4
86	61.5	51.4	77.2

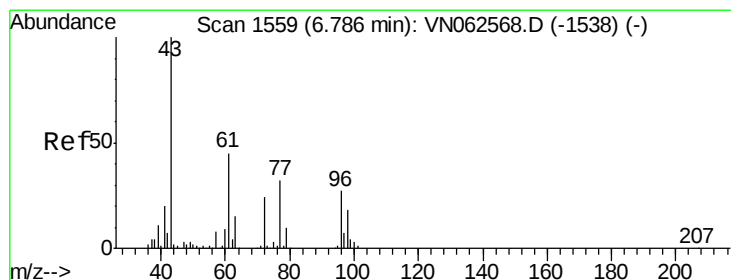
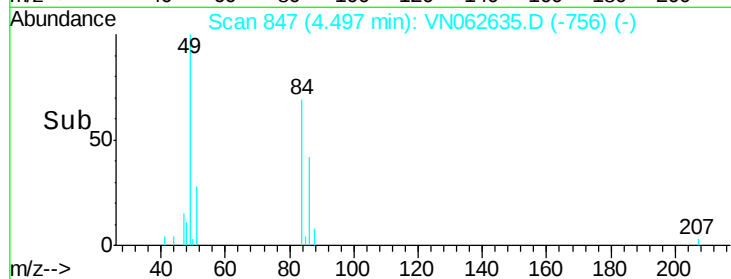
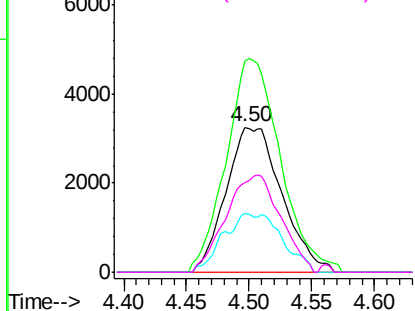


Abundance Ion 83.90 (83.60 to 84.60): VN062635.D (-756) (-)

Ion 48.90 (48.60 to 49.60): VN062635.D (-756) (-)

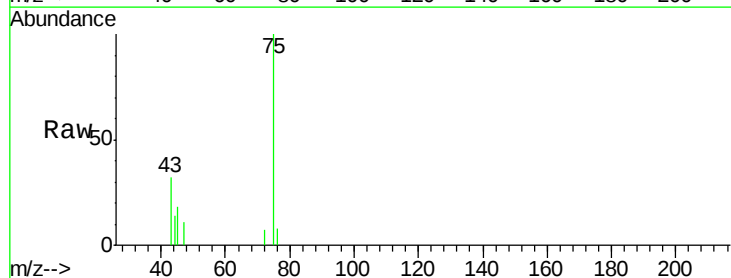
Ion 50.90 (50.60 to 51.60): VN062635.D (-756) (-)

Ion 85.90 (85.60 to 86.60): VN062635.D (-756) (-)



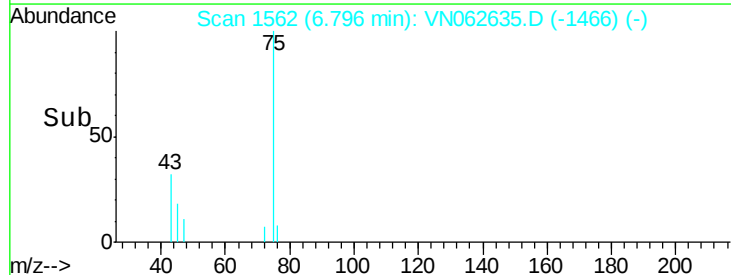
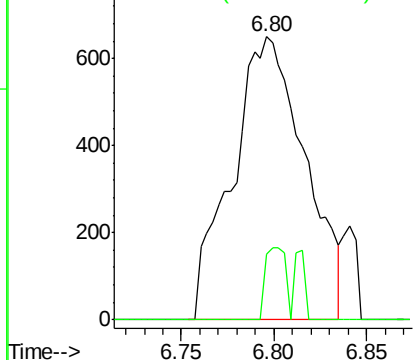
#25
2-Butanone
Concen: 1.332 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062635.D
Acq: 28 Jul 2020 16:43

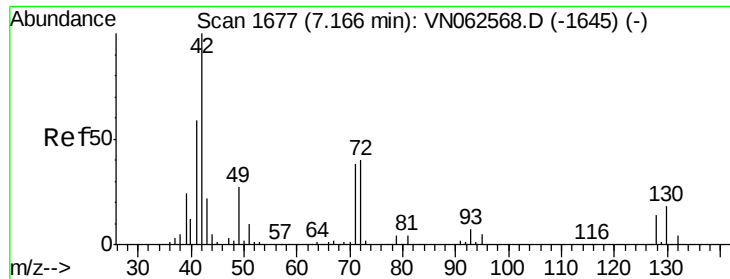
Tgt Ion:	43	Resp:	1778
Ion	Ratio	Lower	Upper
43	100		
72	23.2	19.0	28.6



Abundance Ion 43.00 (42.70 to 43.70): VN062635.D (-1466) (-)

Ion 72.00 (71.70 to 72.70): VN062635.D (-1466) (-)

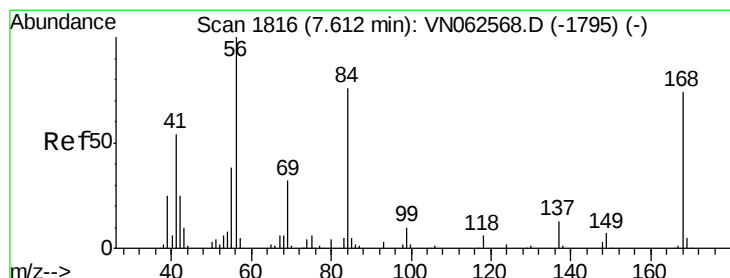
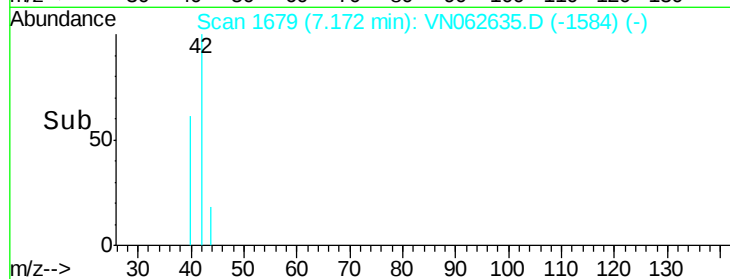
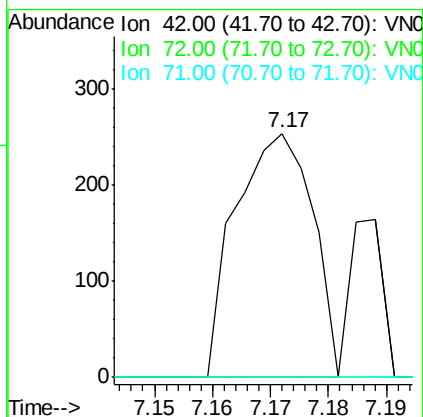
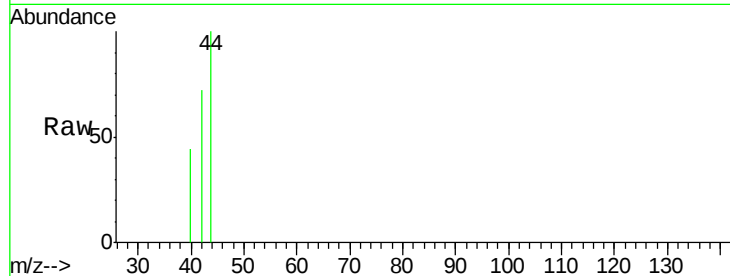




#29
Tetrahydrofuran
Concen: 0.258 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN062635.D
Acq: 28 Jul 2020 16:43

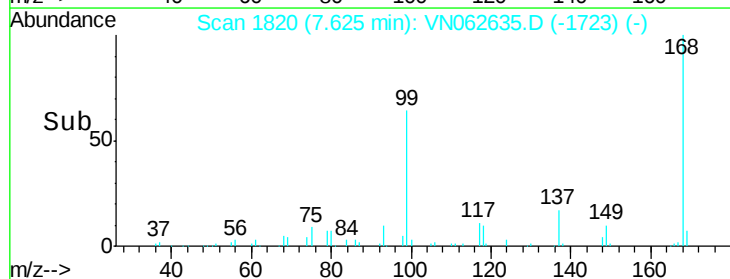
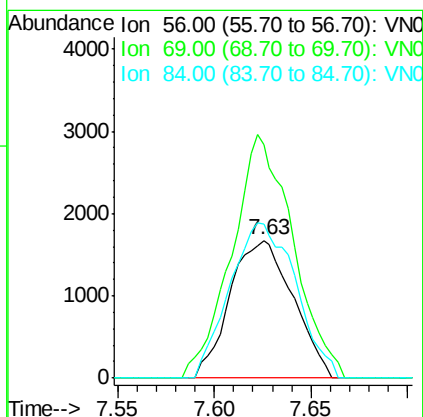
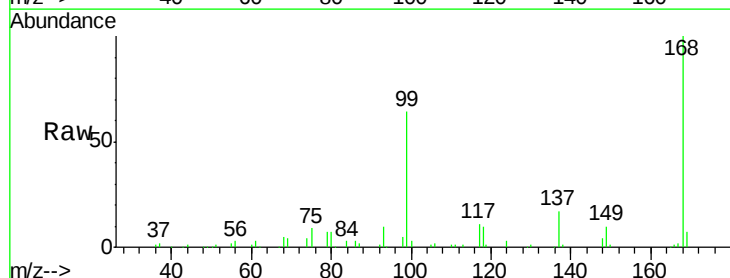
Instrument :
MSVOA_N
ClientSampleId :

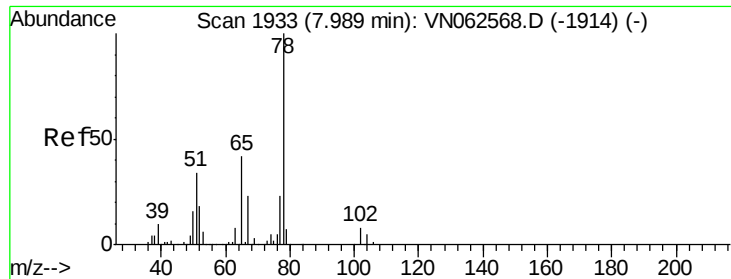
Tot Ion: 42 Resp: 233
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 29.1 43.7#



#31
Cyclohexane
Concen: 1.105 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062635.D
Acq: 28 Jul 2020 16:43

Tgt Ion: 56 Resp: 3792
Ion Ratio Lower Upper
56 100
69 159.2 25.3 37.9#
84 112.1 61.0 91.4#





#33

1,2-Dichloroethane-d4

Concen: 54.984 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

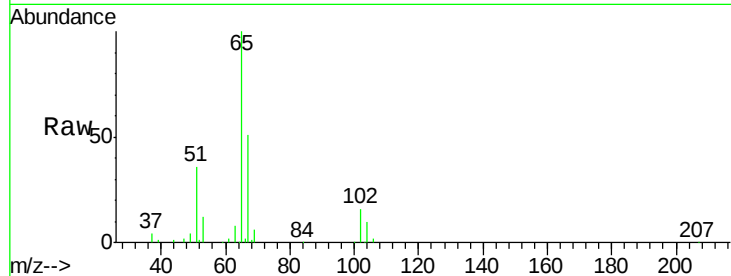
ClientSampleId :

Tot Ion: 65 Resp: 128075

Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN062635.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062635.D (-1840) (-)

7.99

60000

50000

40000

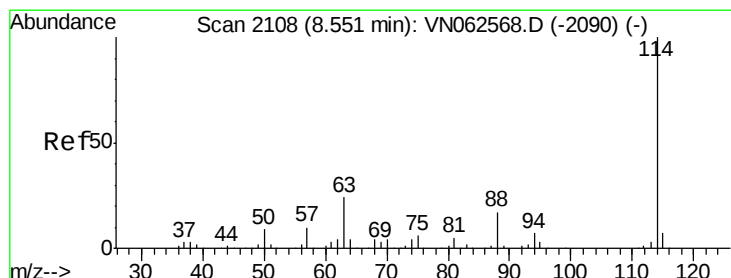
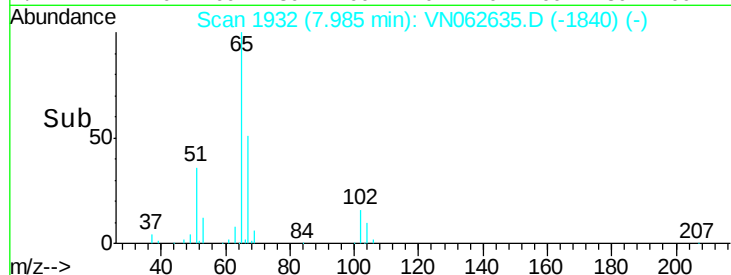
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

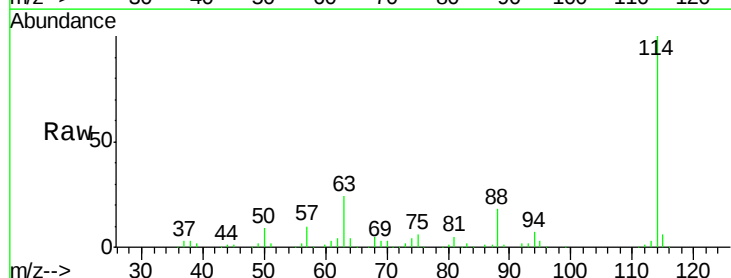
Tgt Ion: 114 Resp: 270906

Ion Ratio Lower Upper

114 100

63 24.2 0.0 48.4

88 17.8 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): VN062635.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062635.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062635.D (-2015) (-)

8.55

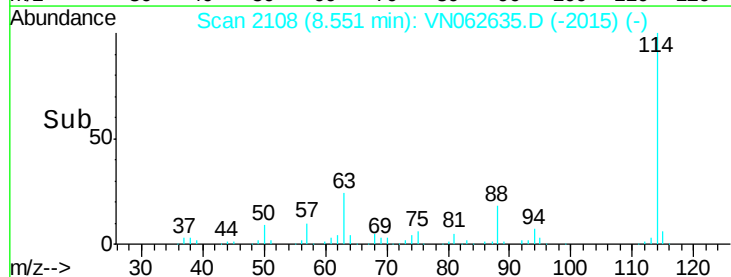
150000

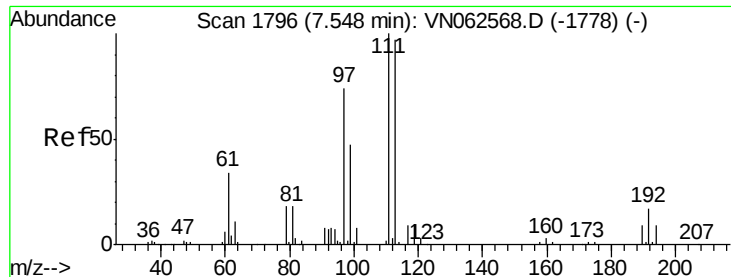
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50000

0

Time-->

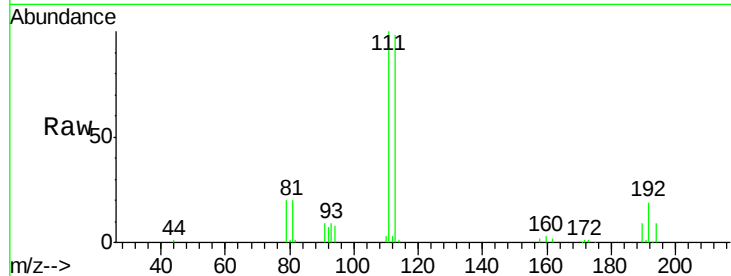




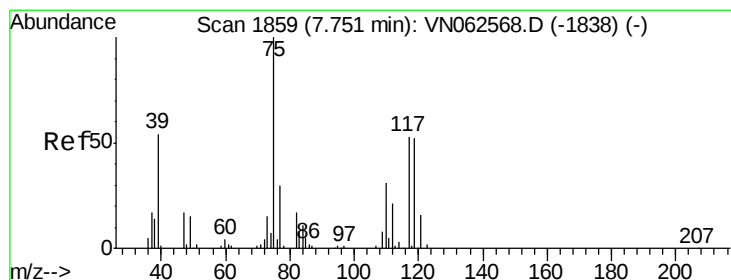
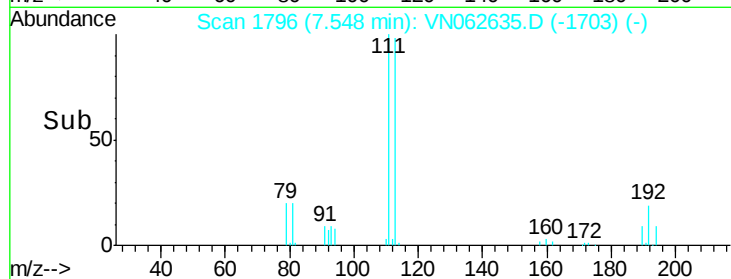
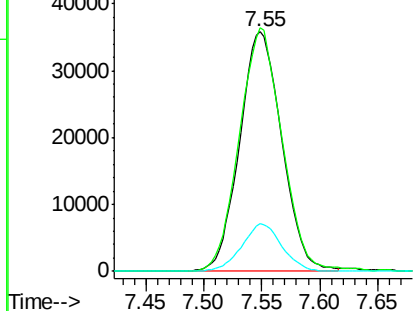
#35
 Dibromofluoromethane
 Concen: 50.959 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062635.D
 Acq: 28 Jul 2020 16:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 90679
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.7 124.1
 192 18.8 14.8 22.2

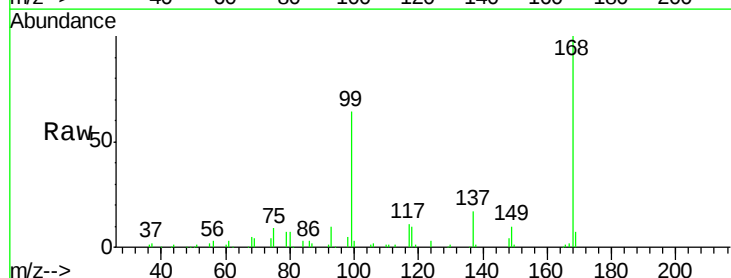


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

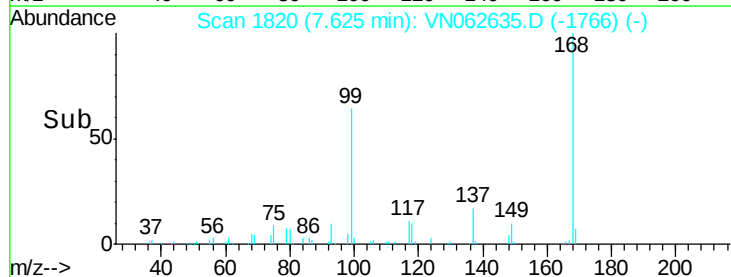
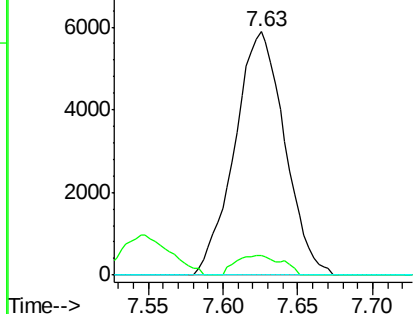


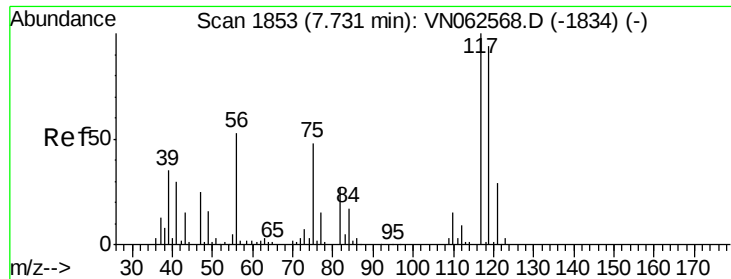
#36
 1,1-Dichloropropene
 Concen: 4.746 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062635.D
 Acq: 28 Jul 2020 16:43

Tgt Ion: 75 Resp: 13704
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.0 48.0#
 77 0.0 24.6 36.8#



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

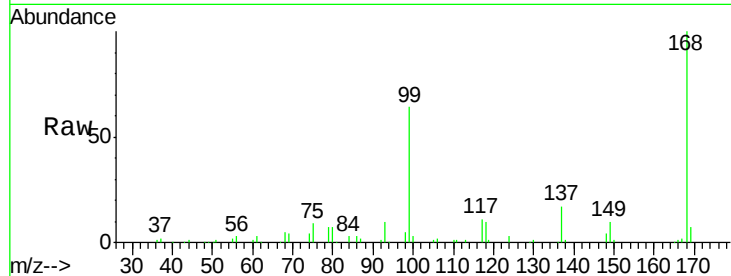




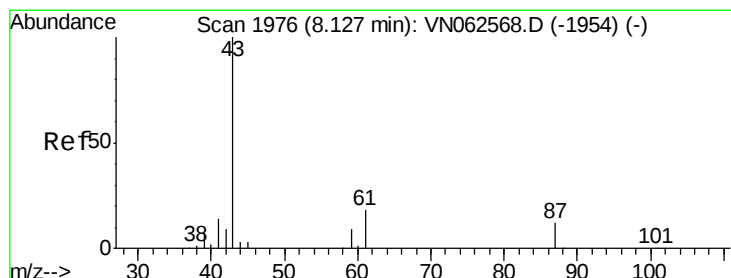
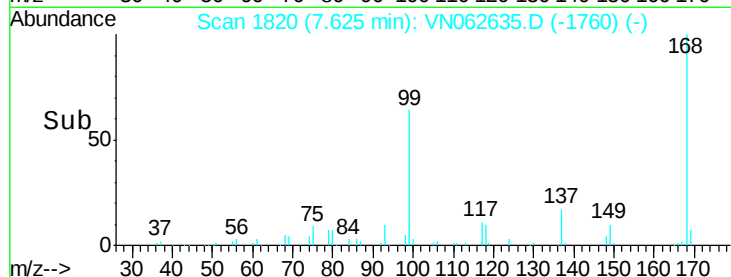
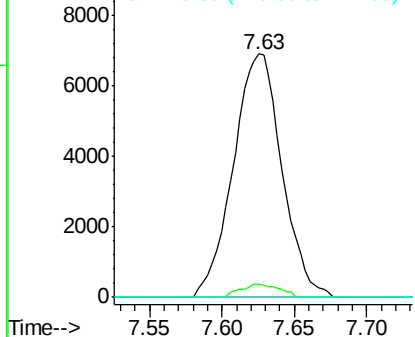
#38
Carbon Tetrachloride
Concen: 5.801 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062635.D
Acq: 28 Jul 2020 16:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 16100
Ion Ratio Lower Upper
117 100
119 5.5 74.8 112.2#
121 0.0 23.0 34.6#

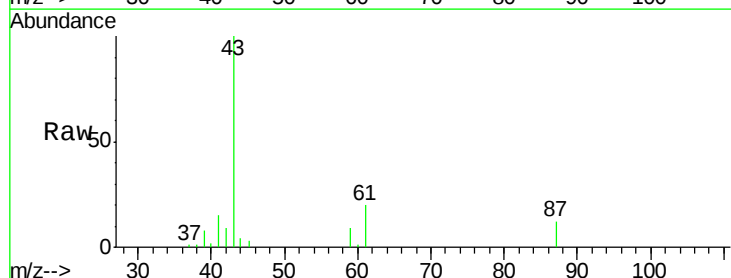


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

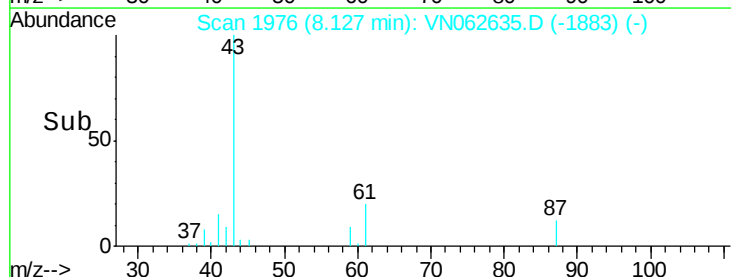
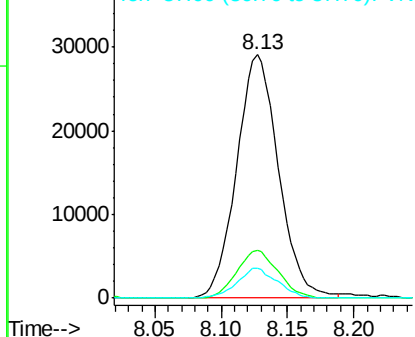


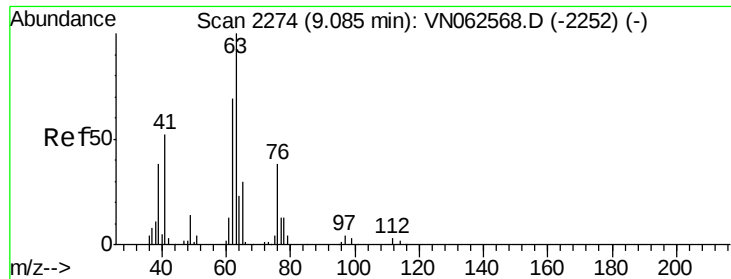
#43
Isopropyl Acetate
Concen: 12.727 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN062635.D
Acq: 28 Jul 2020 16:43

Tgt Ion: 43 Resp: 63864
Ion Ratio Lower Upper
43 100
61 19.2 20.8 31.2#
87 11.7 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.490 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

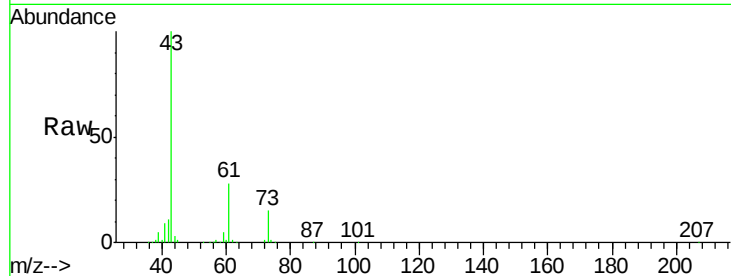
ClientSampleId :

Tot Ion: 63 Resp: 1203

Ion Ratio Lower Upper

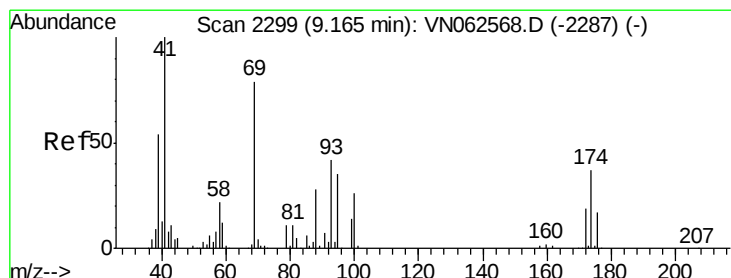
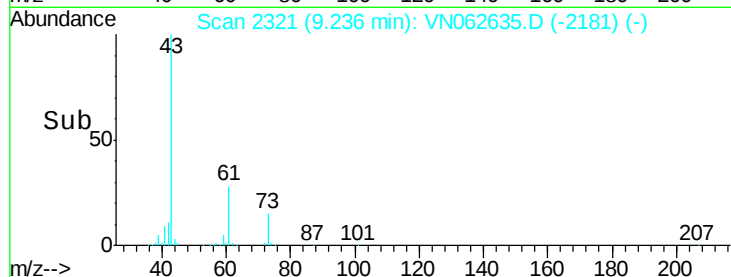
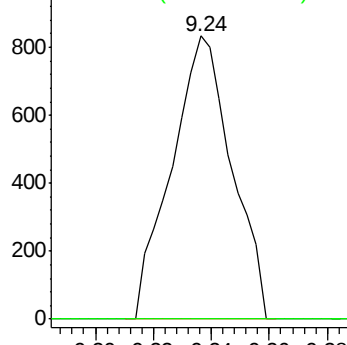
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.331 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

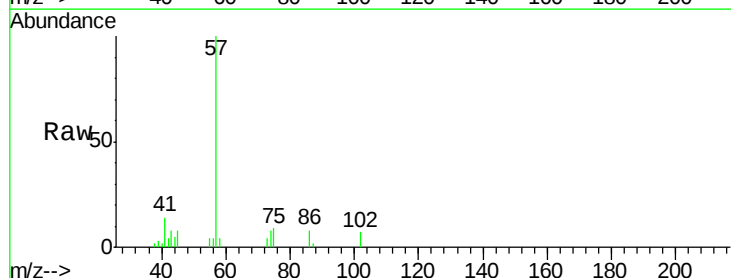
Tgt Ion: 41 Resp: 3176

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

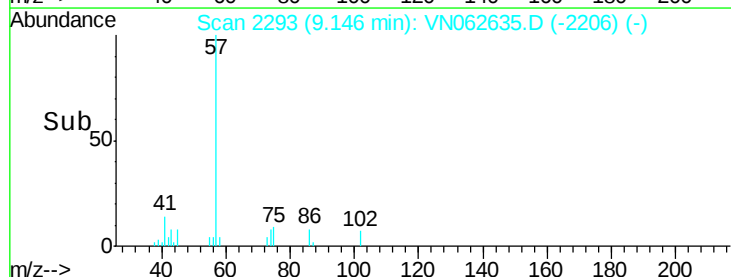
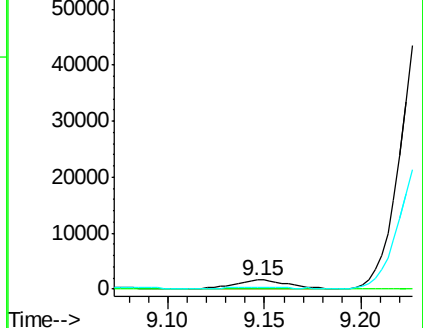
39 0.0 43.5 65.3#

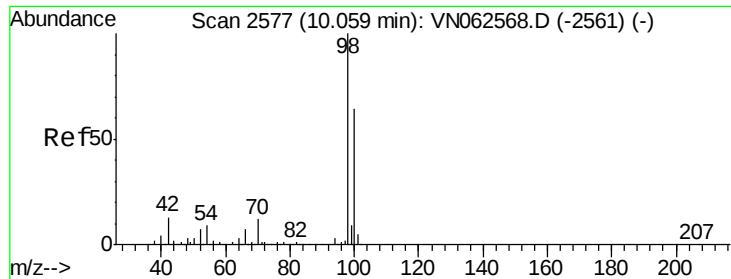


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 51.276 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

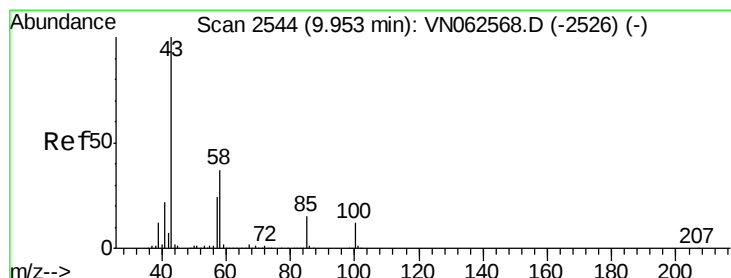
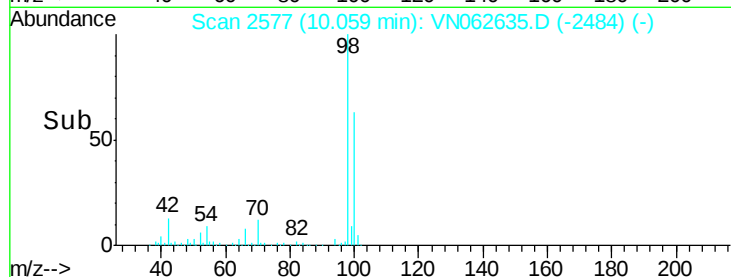
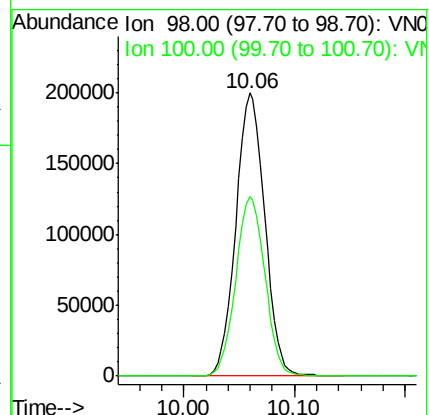
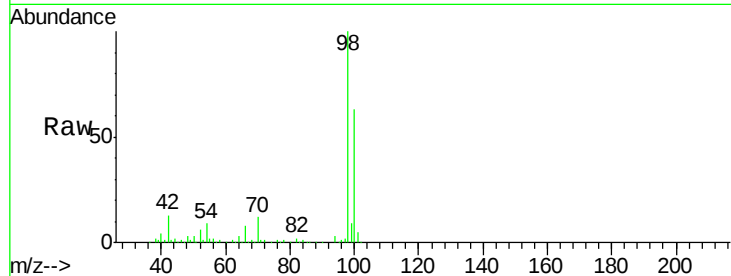
ClientSampled :

Tot Ion: 98 Resp: 364057

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 2.180 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062635.D

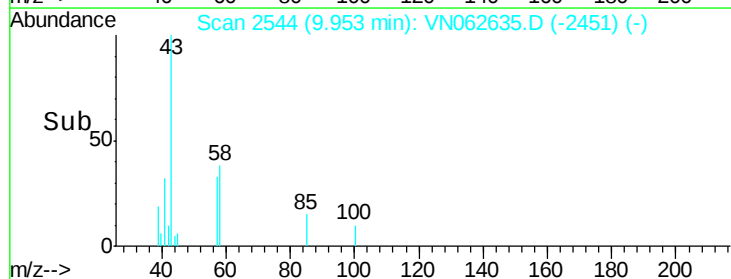
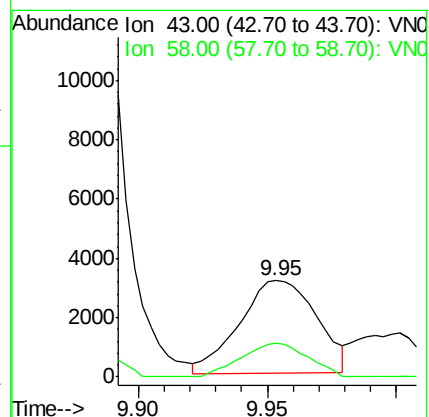
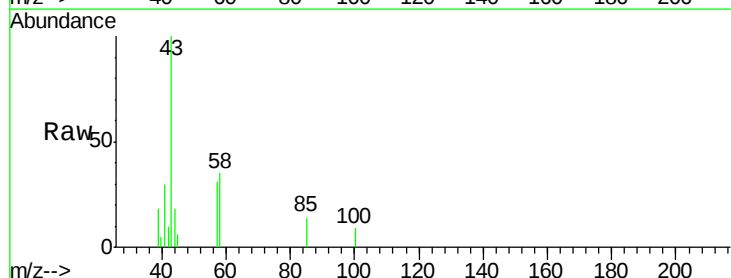
Acq: 28 Jul 2020 16:43

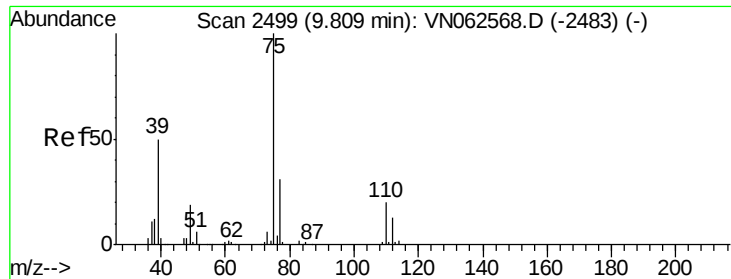
Tgt Ion: 43 Resp: 6545

Ion Ratio Lower Upper

43 100

58 31.2 29.8 44.6



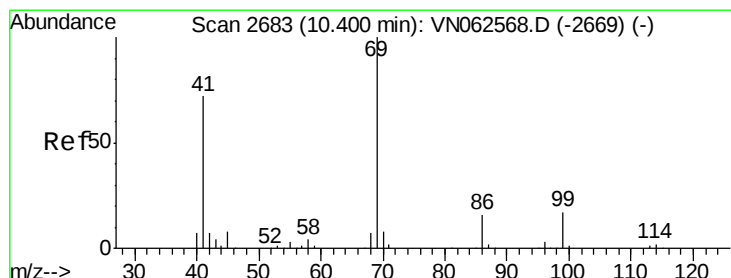
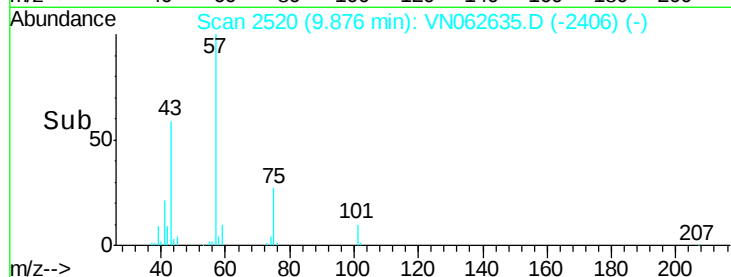
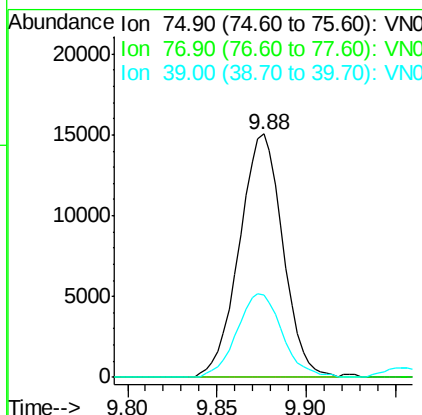
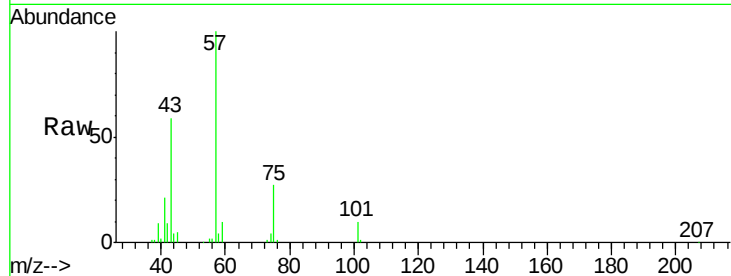


#54

cis-1,3-Dichloropropene
 Concen: 6.980 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062635.D
 Acq: 28 Jul 2020 16:43

Instrument :
 MSVOA_N
 ClientSampleId :

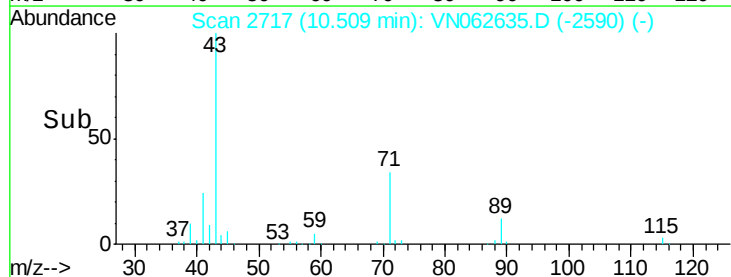
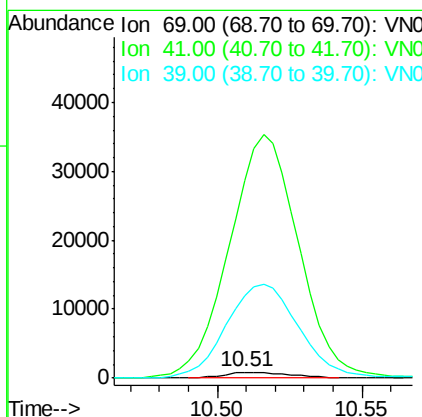
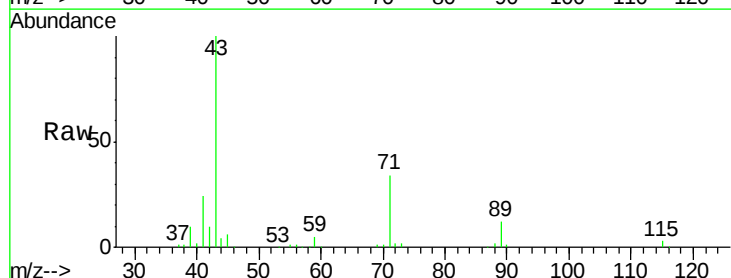
Tot Ion: 75 Resp: 25625
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 33.8 39.8 59.8#

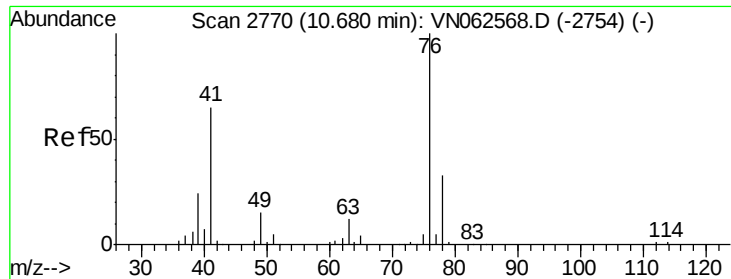


#56

Ethyl methacrylate
 Concen: 2.128 ug/l
 RT: 10.51 min Scan# 2717
 Delta R.T. 0.11 min
 Lab File: VN062635.D
 Acq: 28 Jul 2020 16:43

Tgt Ion: 69 Resp: 1315
 Ion Ratio Lower Upper
 69 100
 41 4473.3 57.2 85.8#
 39 1809.2 28.6 43.0#

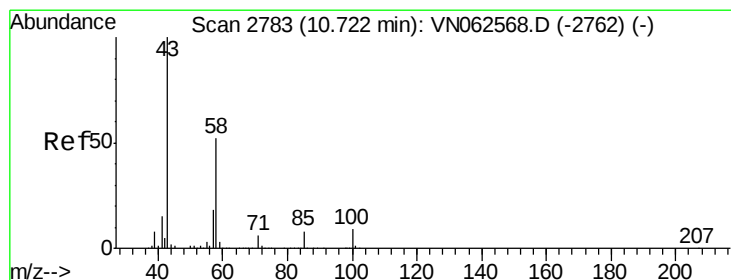
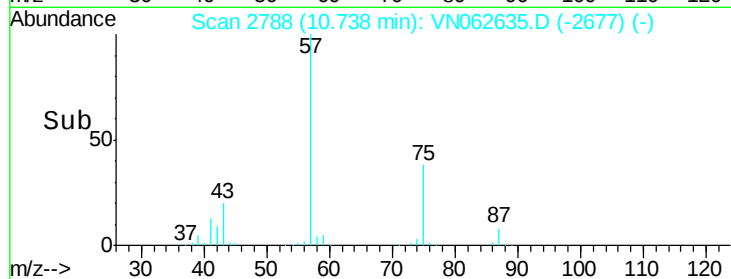
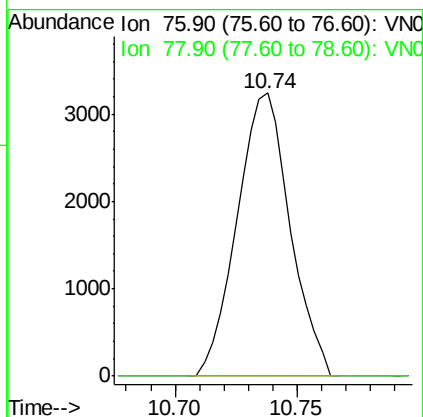
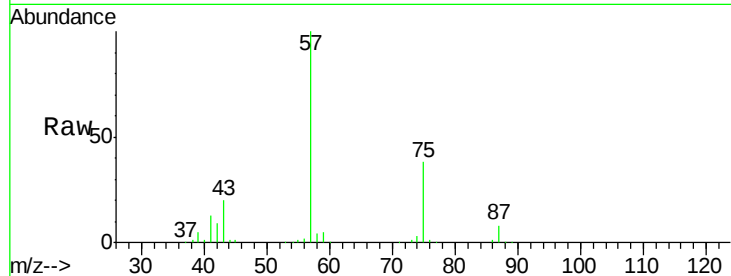




#57
 1,3-Dichloropropane
 Concen: 1.351 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062635.D
 Acq: 28 Jul 2020 16:43

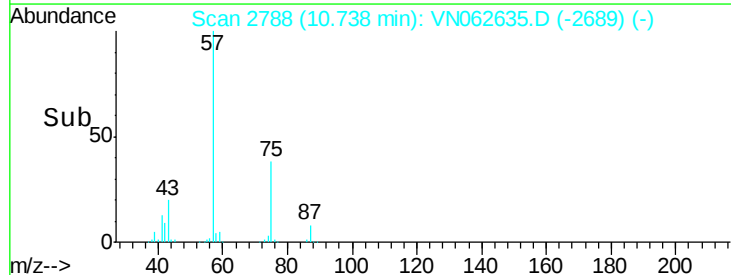
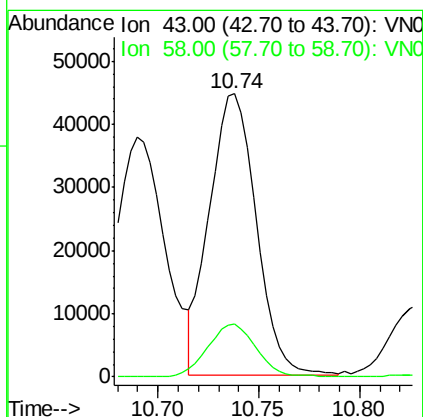
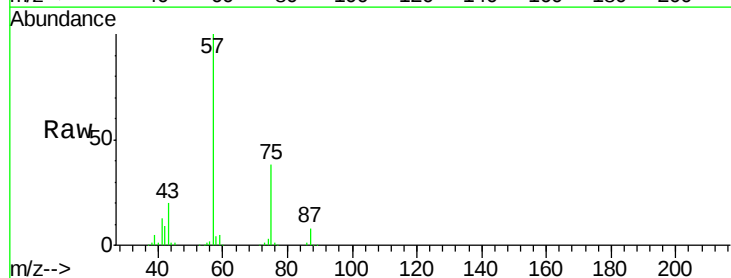
Instrument :
 MSVOA_N
 ClientSampled :

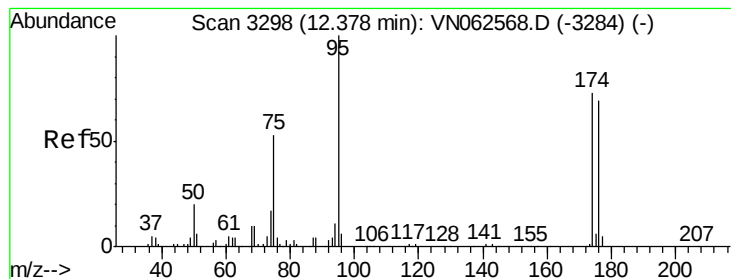
Tot Ion: 76 Resp: 4874
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 33.719 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062635.D
 Acq: 28 Jul 2020 16:43

Tgt Ion: 43 Resp: 72278
 Ion Ratio Lower Upper
 43 100
 58 19.4 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 47.203 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

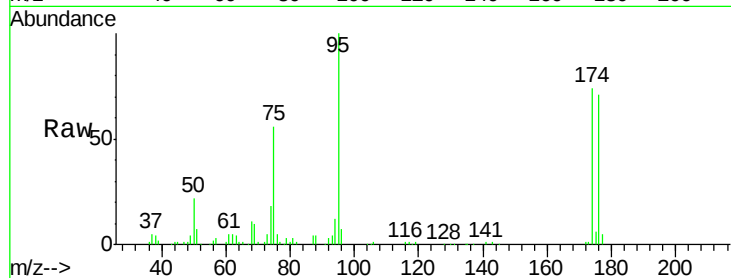
Tot Ion: 95 Resp: 122540

Ion Ratio Lower Upper

95 100

174 74.0 0.0 144.6

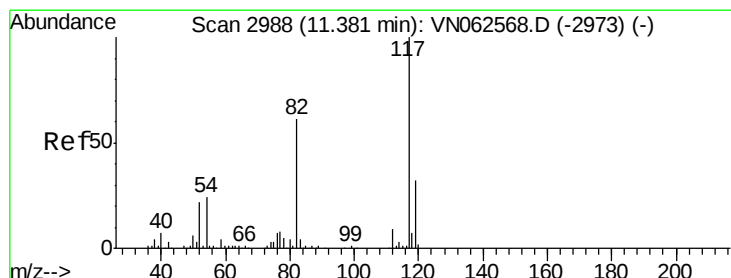
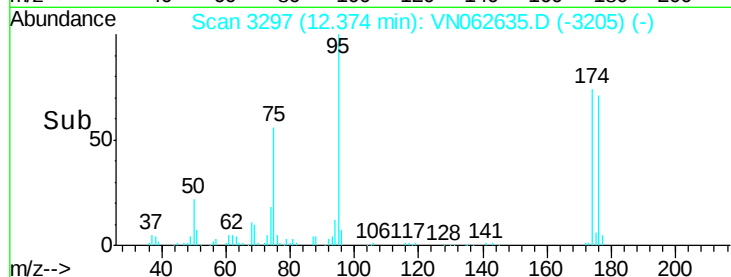
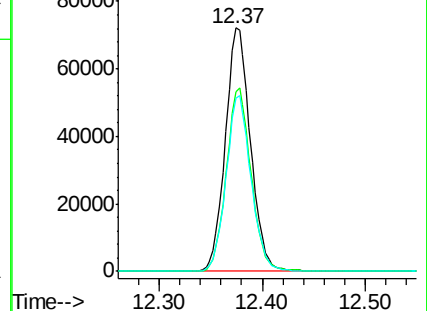
176 71.0 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062568.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062568.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062568.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

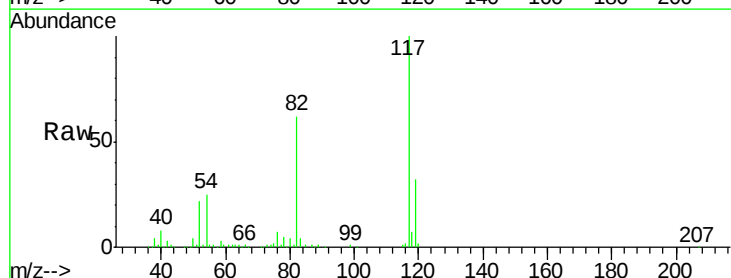
Tgt Ion: 117 Resp: 279278

Ion Ratio Lower Upper

117 100

82 61.8 49.0 73.6

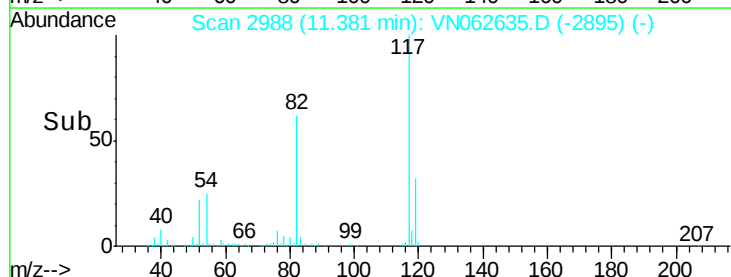
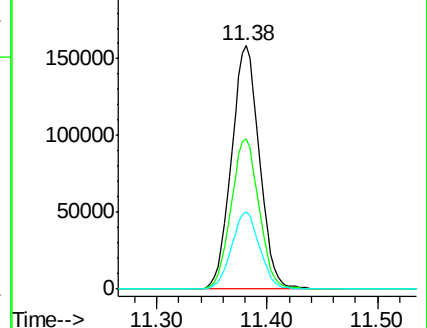
119 31.5 25.4 38.2

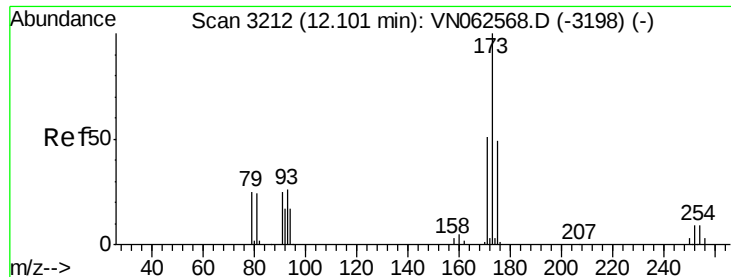


Abundance Ion 116.90 (116.60 to 117.60): VN062568.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN062568.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN062568.D (-2973) (-)





#71

Bromoform

Concen: 0.390 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

ClientSampled :

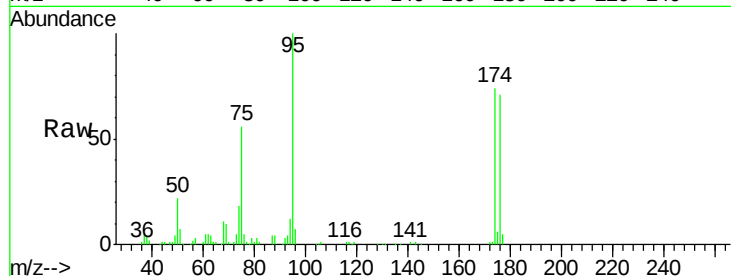
Tot Ion:173 Resp: 645

Ion Ratio Lower Upper

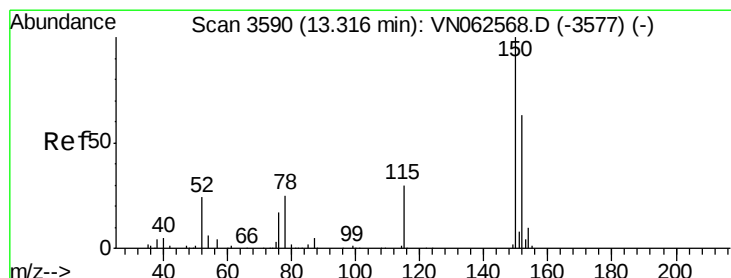
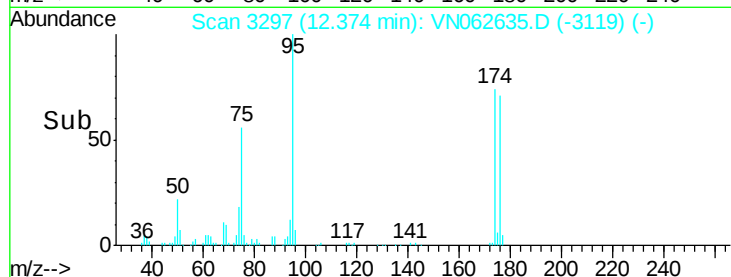
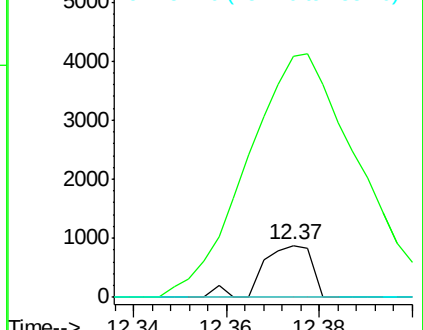
173 100

175 899.4 24.1 72.2#

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: VN062635.D

Acq: 28 Jul 2020 16:43

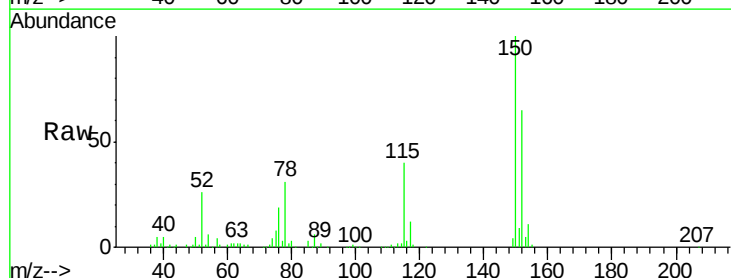
Tgt Ion:152 Resp: 94179

Ion Ratio Lower Upper

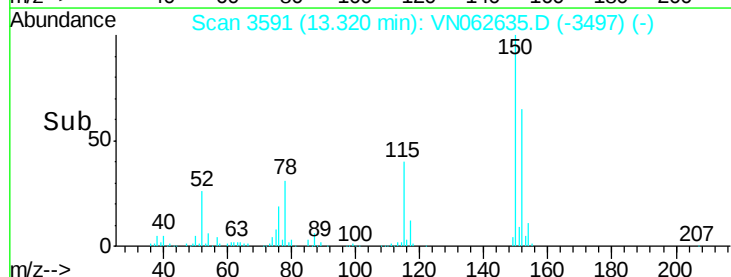
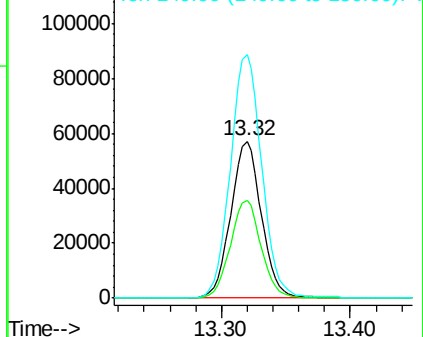
152 100

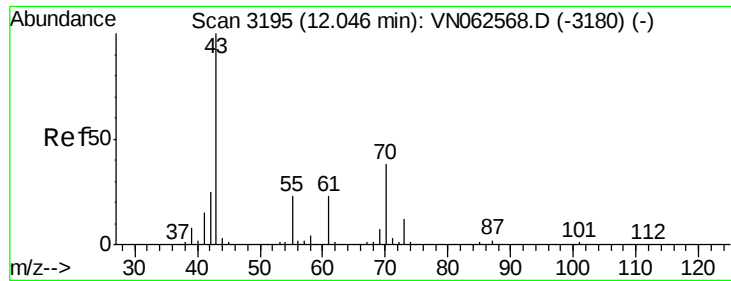
115 62.6 31.8 95.4

150 158.8 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: 0.871 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2895

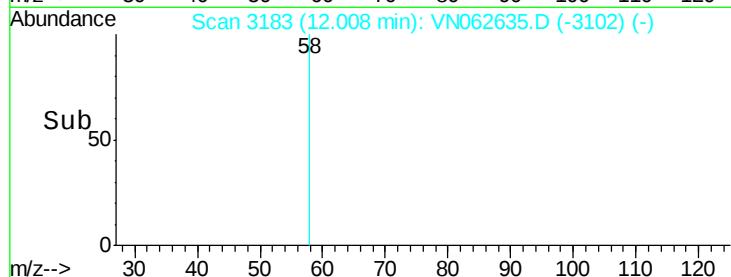
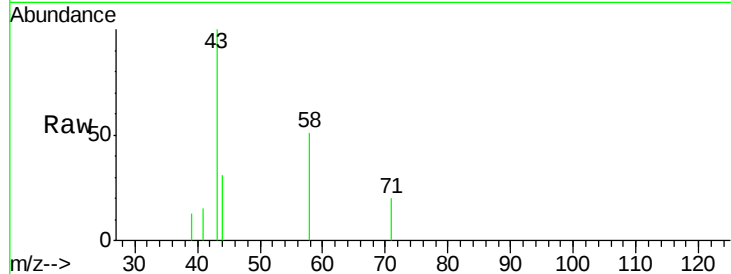
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

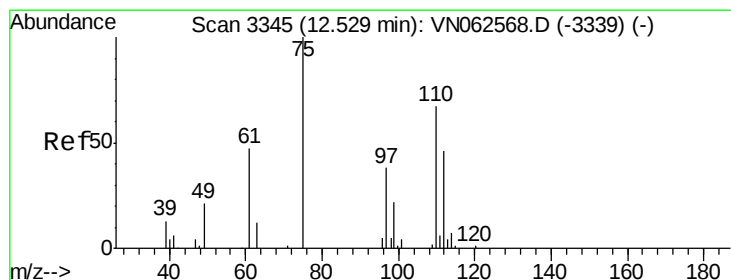
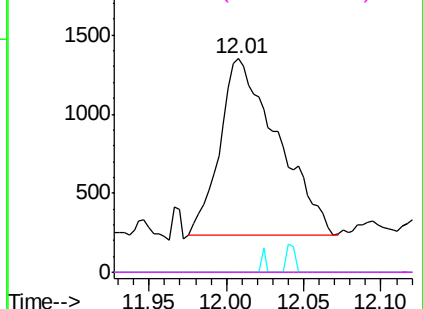


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.543 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN062635.D

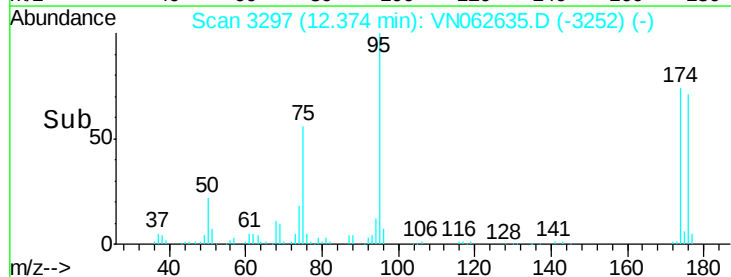
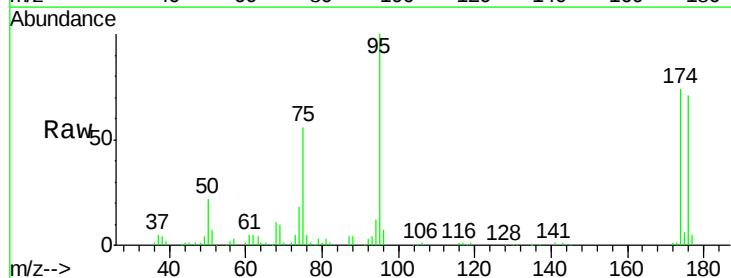
Acq: 28 Jul 2020 16:43

Tgt Ion: 75 Resp: 68423

Ion Ratio Lower Upper

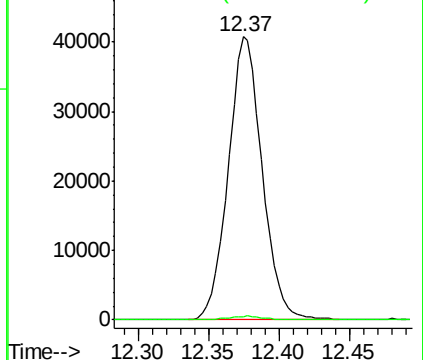
75 100

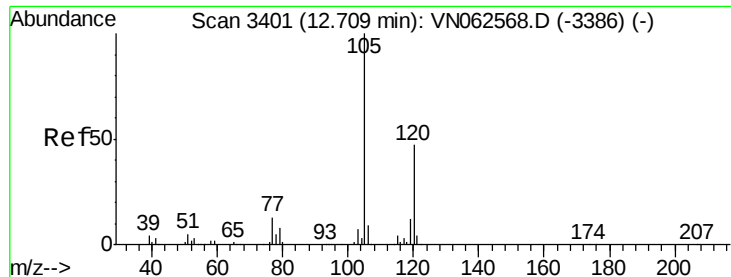
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.832 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

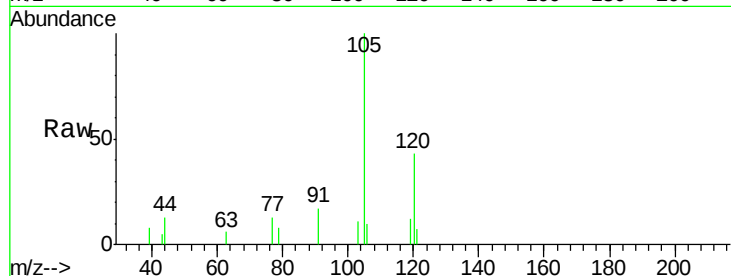
ClientSampleId :

Tot Ion:105 Resp: 5139

Ion Ratio Lower Upper

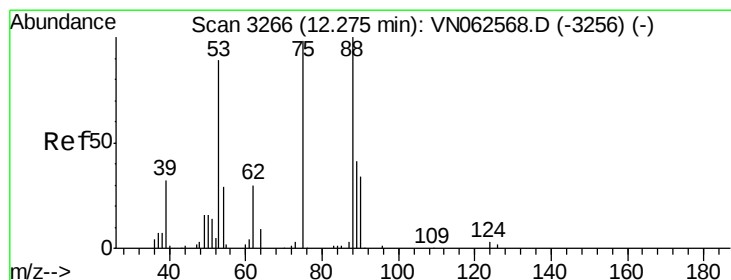
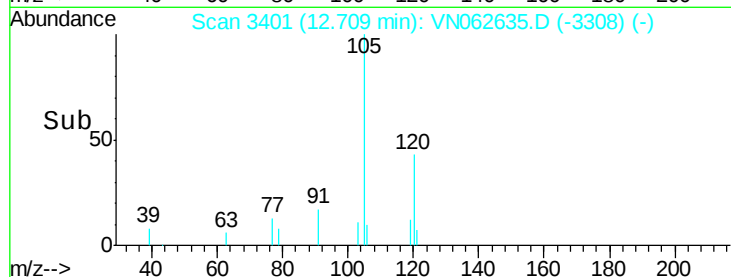
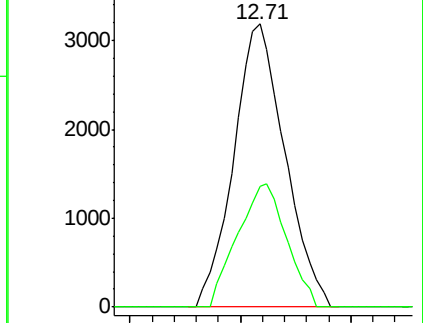
105 100

120 41.6 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 79.457 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

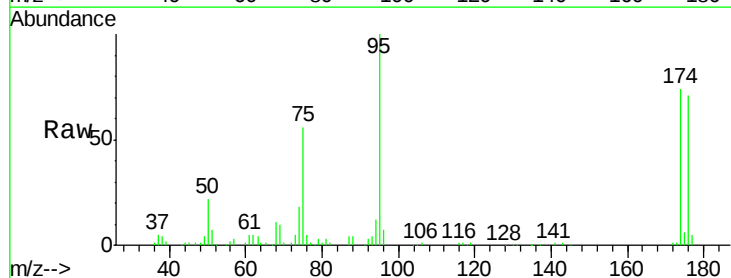
Tgt Ion: 75 Resp: 68423

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

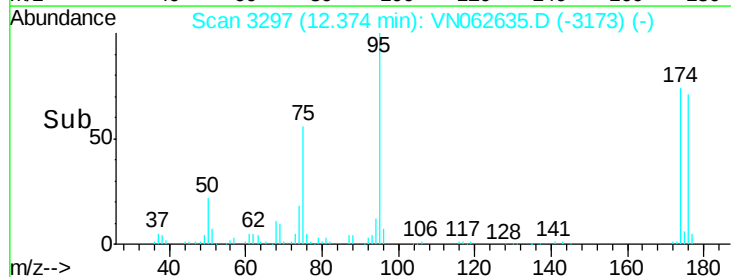
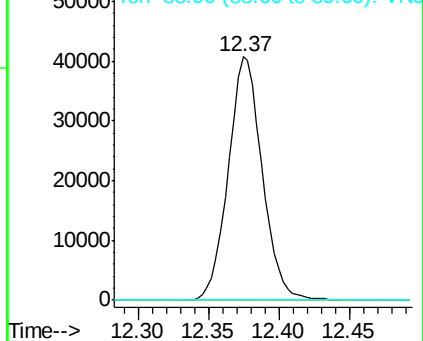
89 0.0 34.5 51.7#

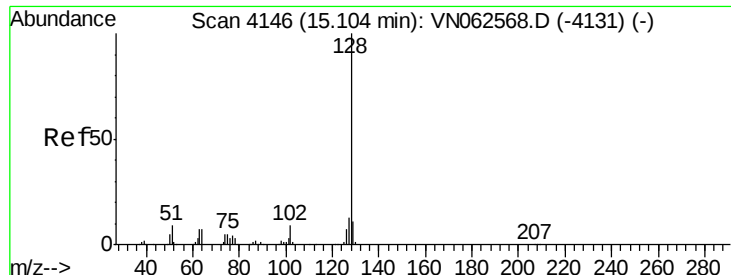


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 3.784 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

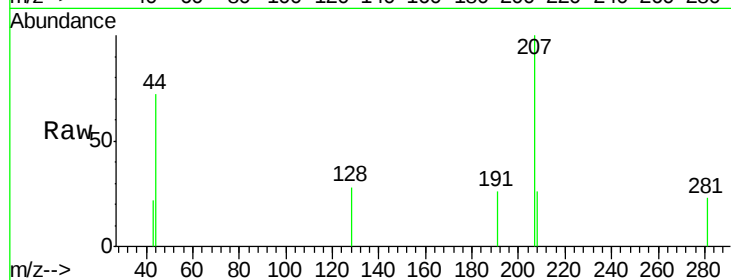
Lab File: VN062635.D

Acq: 28 Jul 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:128 Resp: 101

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

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

