

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100720\
 Data File : VN063969.D
 Acq On : 8 Oct 2020 3:17
 Operator : JC/MD
 Sample : L4221-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-01-100620

Quant Time: Oct 08 05:11:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	241470	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	454083	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	469083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	189127	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	208620	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
35) Dibromofluoromethane	7.55	113	151181	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	10.06	98	582166	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
62) 4-Bromofluorobenzene	12.38	95	222120	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	

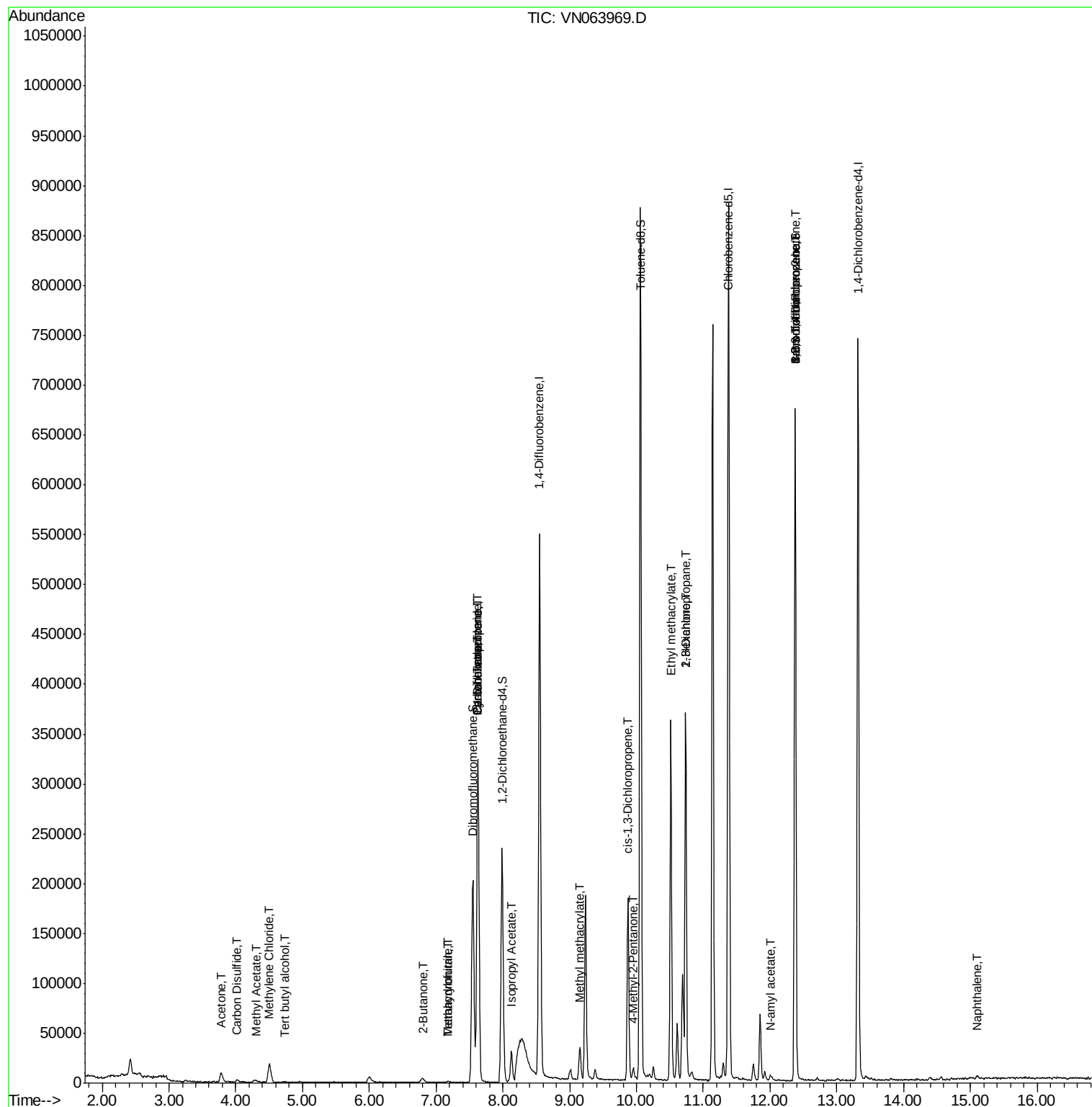
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	366	0.831	ug/l #	71
16) Acetone	3.78	43	17938	14.607	ug/l	92
17) Carbon Disulfide	4.03	76	881	0.833	ug/l #	76
18) Methyl Acetate	4.30	43	3475	1.090	ug/l #	67
20) Methylene Chloride	4.51	84	13028	4.721	ug/l	88
25) 2-Butanone	6.79	43	2477	1.423	ug/l	93
29) Tetrahydrofuran	7.18	42	679	0.581	ug/l #	57
31) Cyclohexane	7.62	56	6096	1.316	ug/l #	25
36) 1,1-Dichloropropene	7.62	75	20591	4.476	ug/l #	51
38) Carbon Tetrachloride	7.62	117	26086	5.057	ug/l #	13
41) Methacrylonitrile	7.16	41	423	0.208	ug/l #	12
43) Isopropyl Acetate	8.13	43	36787	4.880	ug/l	97
48) Methyl methacrylate	9.15	41	6017	1.615	ug/l #	18
51) 4-Methyl-2-Pentanone	9.96	43	10274	2.322	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	28795	5.091	ug/l #	69
56) Ethyl methacrylate	10.51	69	1998	0.432	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3340	0.606	ug/l #	43
59) 2-Hexanone	10.74	43	61818	18.810	ug/l #	56
71) Bromoform	12.37	173	2088	0.740	ug/l #	1
74) N-amyl acetate	12.01	43	2815	2.636	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	123917	29.723	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	123917	85.606	ug/l #	6
95) Naphthalene	15.11	128	3732	2.276	ug/l #	85

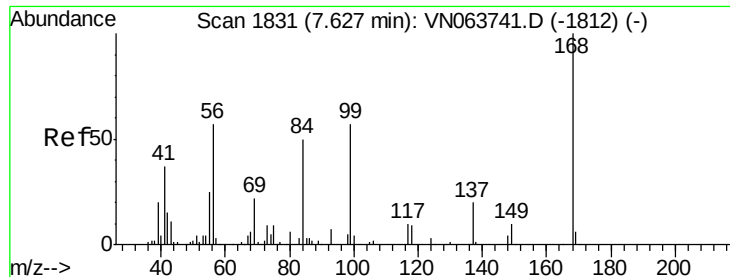
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

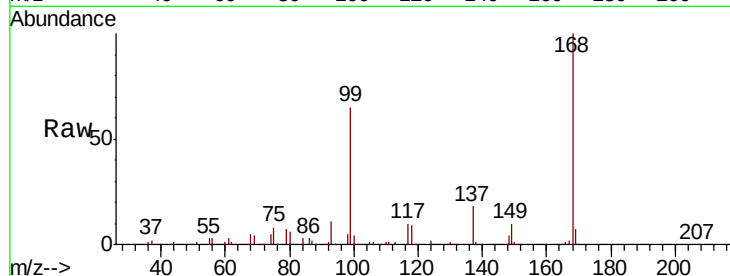
OK-01-100620

Tot Ion:168 Resp: 241470

Ion Ratio Lower Upper

168 100

99 65.4 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

100000

80000

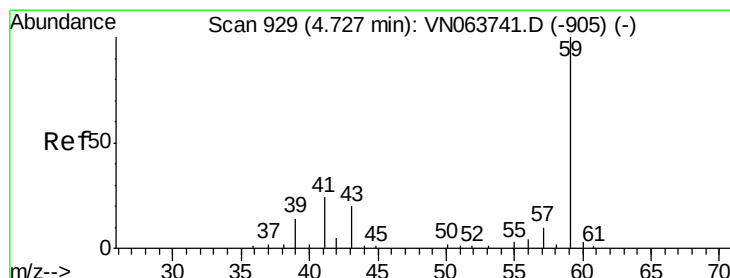
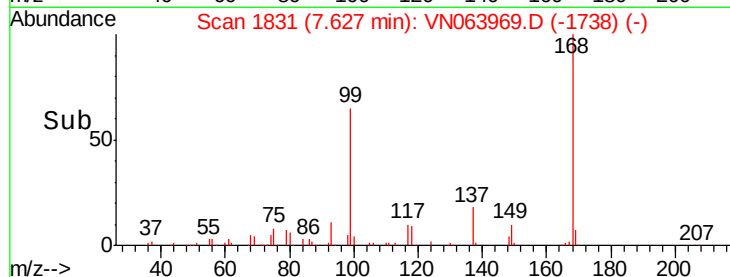
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.831 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN063969.D

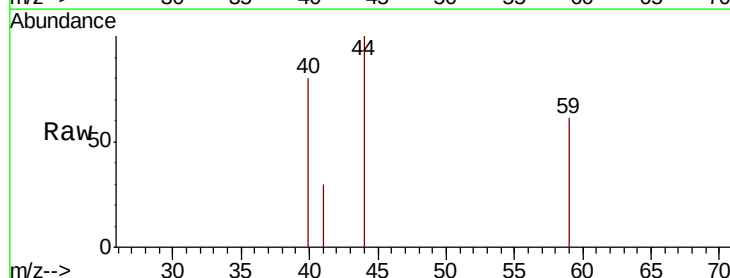
Acq: 8 Oct 2020 3:17

Tgt Ion: 59 Resp: 366

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

400

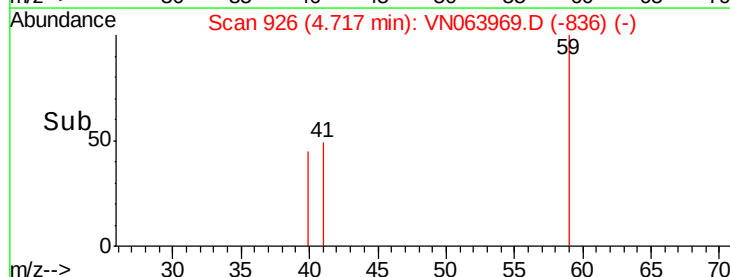
300

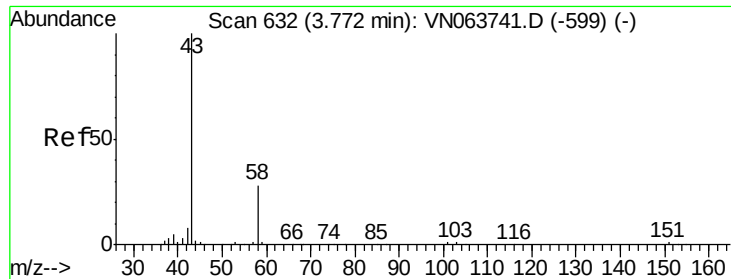
200

100

0

Time-->





#16

Acetone

Concen: 14.607 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

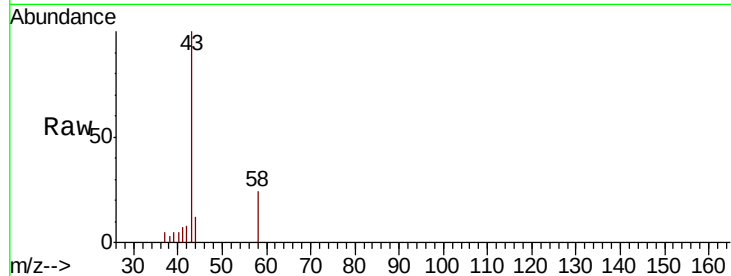
OK-01-100620

Tot Ion: 43 Resp: 17938

Ion Ratio Lower Upper

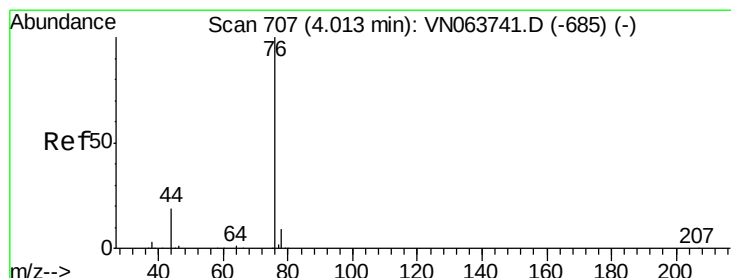
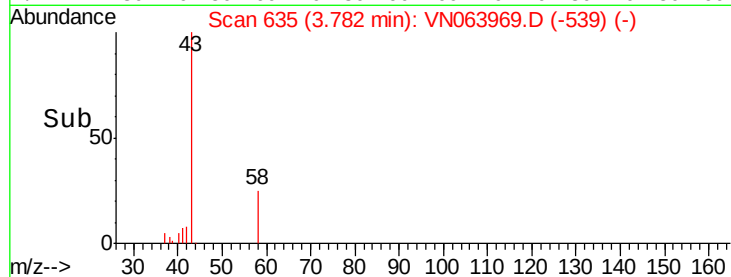
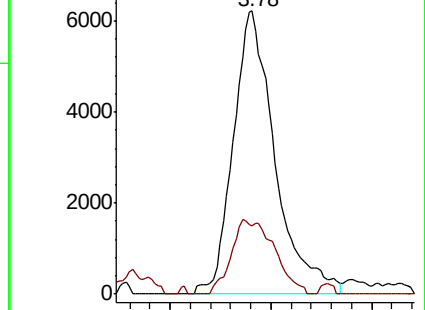
43 100

58 23.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063969.D (-539) (-)

Ion 58.00 (57.70 to 58.70): VN063969.D (-539) (-)



#17

Carbon Disulfide

Concen: 0.833 ug/l

RT: 4.03 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN063969.D

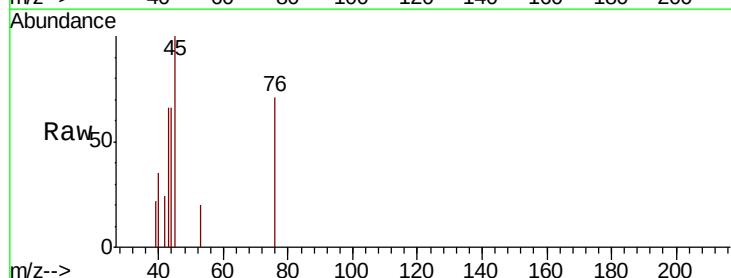
Acq: 8 Oct 2020 3:17

Tgt Ion: 76 Resp: 881

Ion Ratio Lower Upper

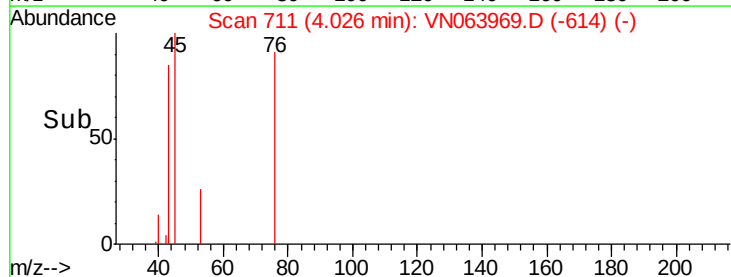
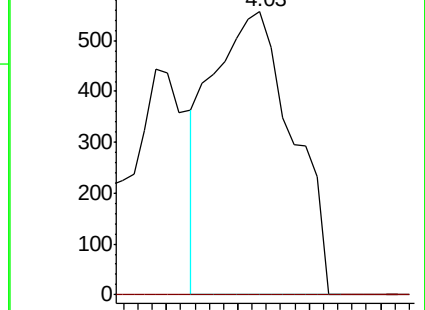
76 100

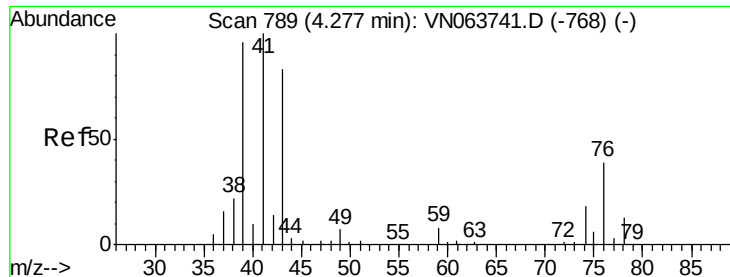
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063969.D (-614) (-)

Ion 77.90 (77.60 to 78.60): VN063969.D (-614) (-)

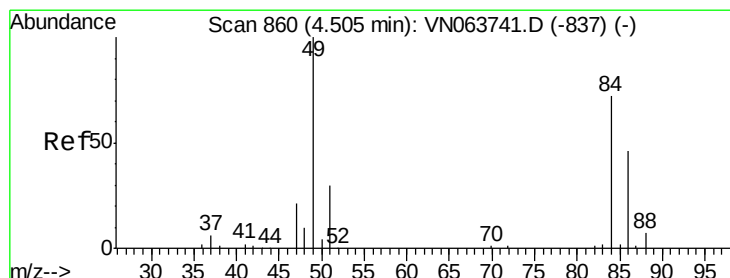
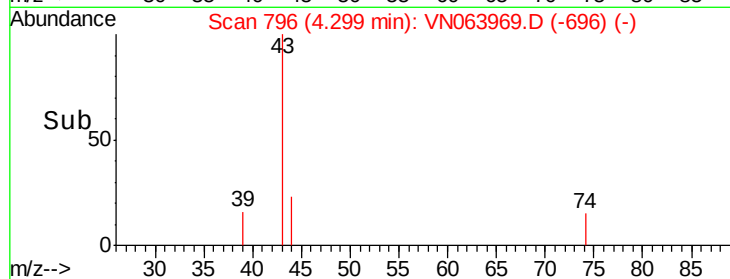
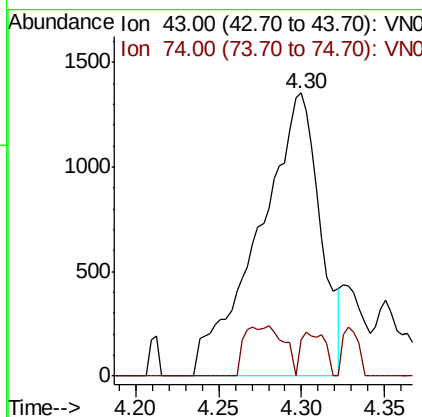
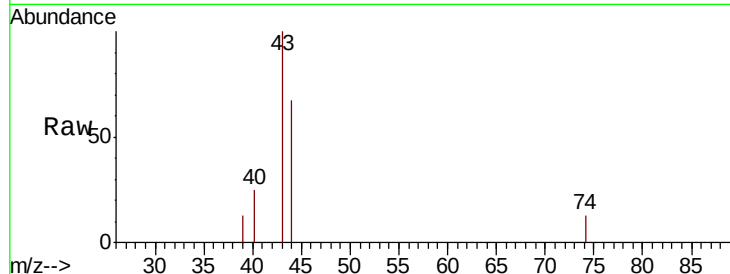




#18
Methyl Acetate
Concen: 1.090 ug/l
RT: 4.30 min Scan# 796
Delta R.T. 0.02 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

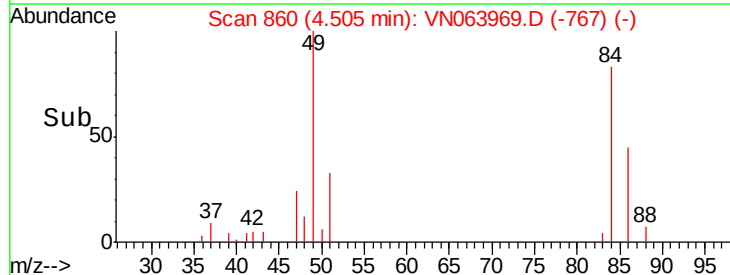
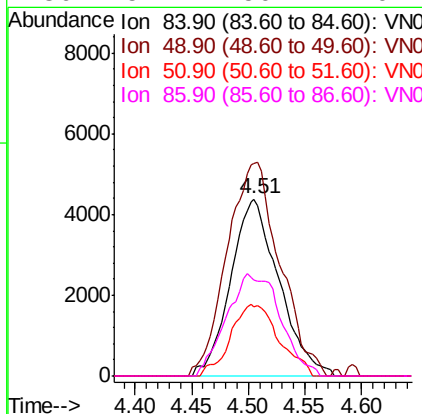
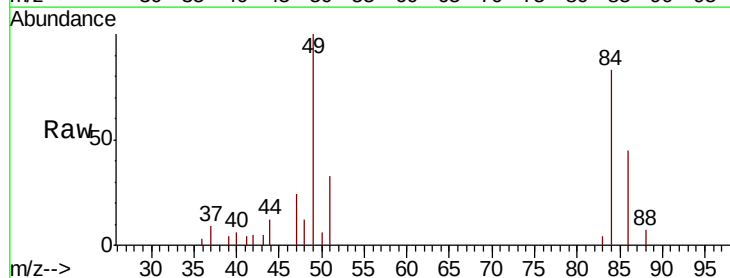
Instrument :
MSVOA_N
ClientSampleId :
OK-01-100620

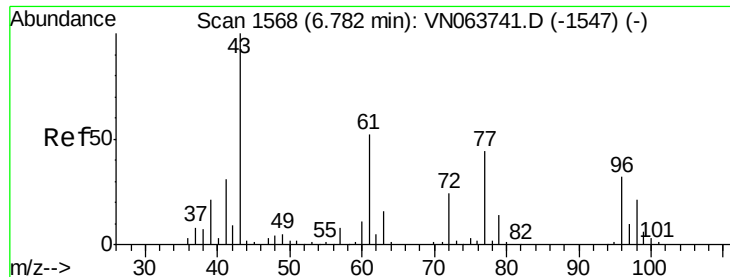
Tot Ion: 43 Resp: 3475
Ion Ratio Lower Upper
43 100
74 6.2 17.4 26.2#



#20
Methylene Chloride
Concen: 4.721 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Tgt Ion: 84 Resp: 13028
Ion Ratio Lower Upper
84 100
49 120.0 110.4 165.6
51 39.0 33.3 49.9
86 54.1 50.7 76.1





#25

2-Butanone

Concen: 1.423 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

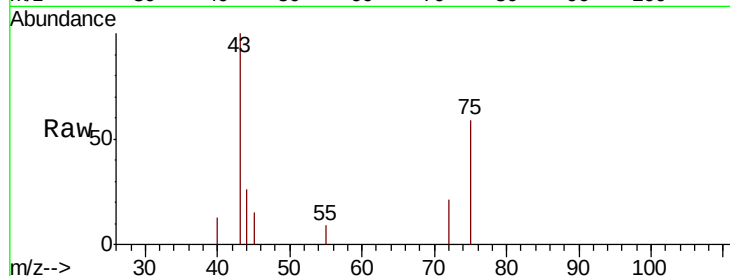
OK-01-100620

Tot Ion: 43 Resp: 2477

Ion Ratio Lower Upper

43 100

72 20.8 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

2000

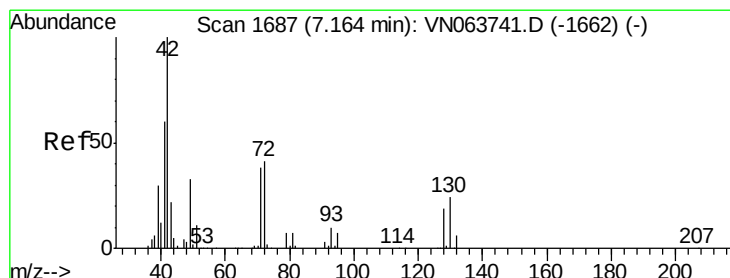
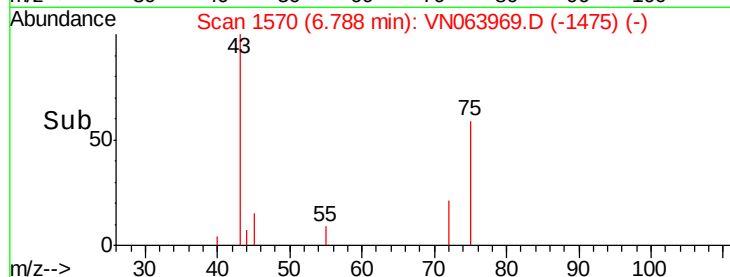
1500

1000

500

0

Time-->



#29

Tetrahydrofuran

Concen: 0.581 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

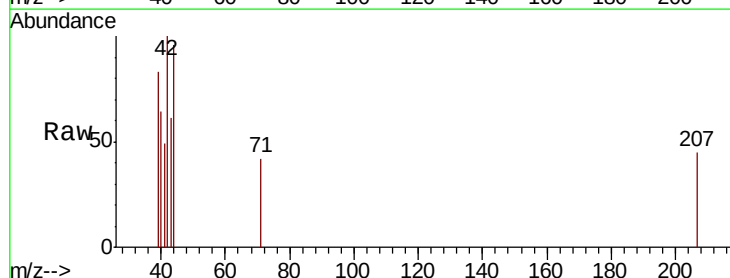
Tgt Ion: 42 Resp: 679

Ion Ratio Lower Upper

42 100

72 4.3 32.8 49.2#

71 22.5 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

500

400

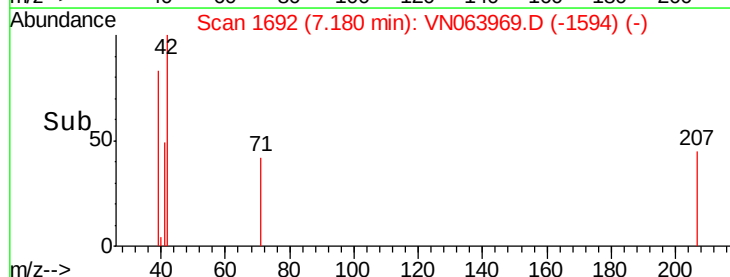
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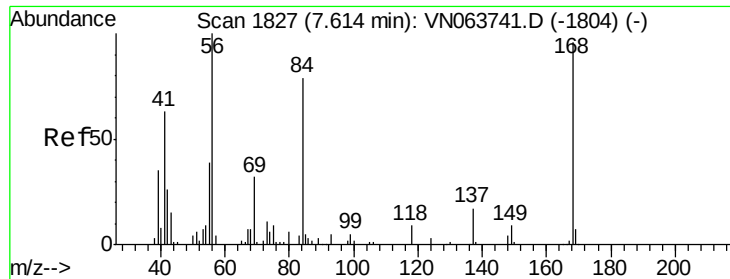
200

100

0

Time-->

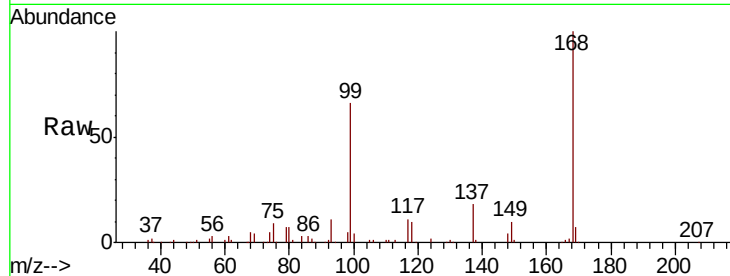




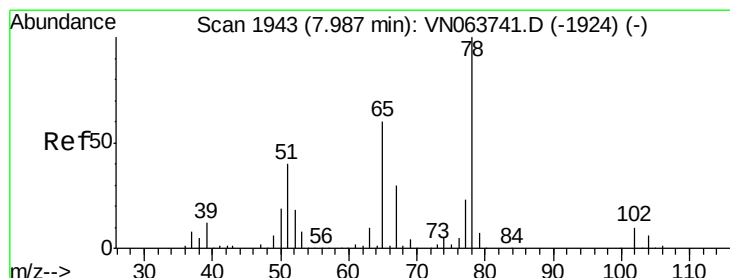
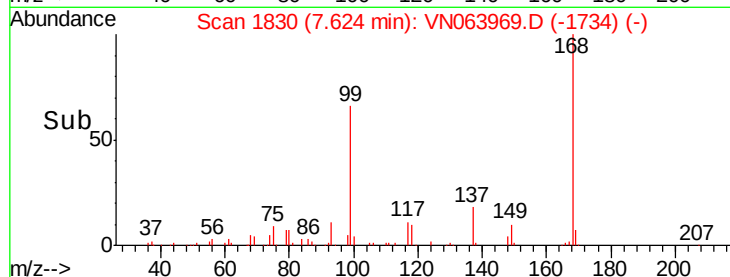
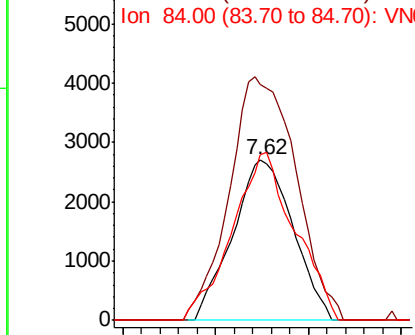
#31
Cyclohexane
Concen: 1.316 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Instrument :
MSVOA_N
ClientSampleId :
OK-01-100620

Tot Ion: 56 Resp: 6096
Ion Ratio Lower Upper
56 100
69 140.2 25.4 38.2#
84 102.9 63.3 94.9#

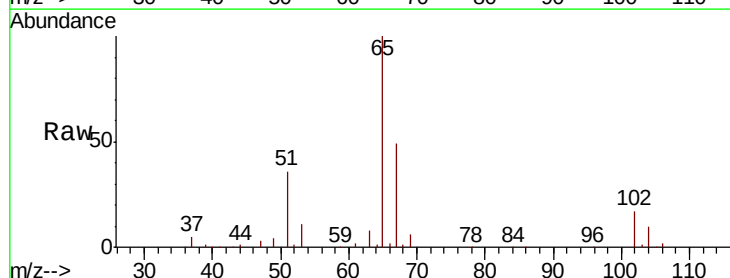


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

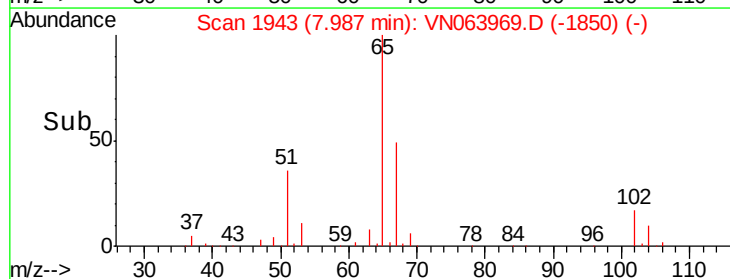
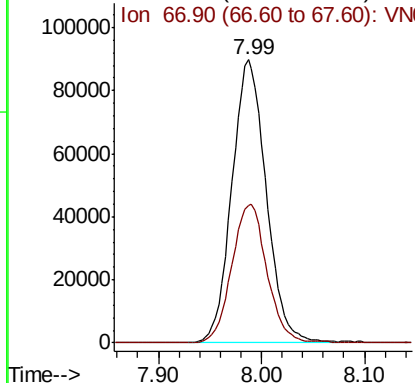


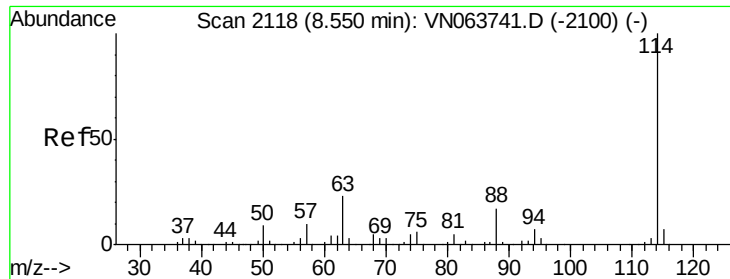
#33
1,2-Dichloroethane-d4
Concen: 52.296 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Tgt Ion: 65 Resp: 208620
Ion Ratio Lower Upper
65 100
67 49.9 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

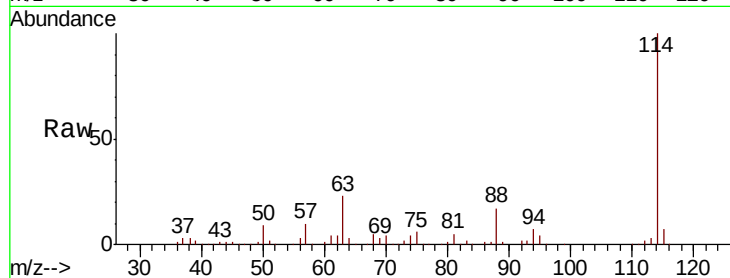




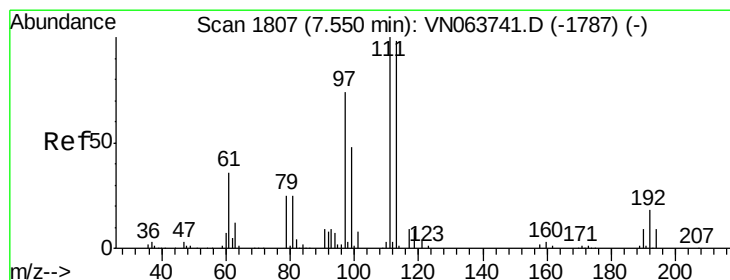
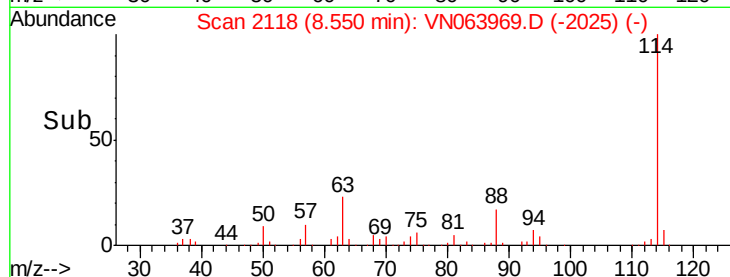
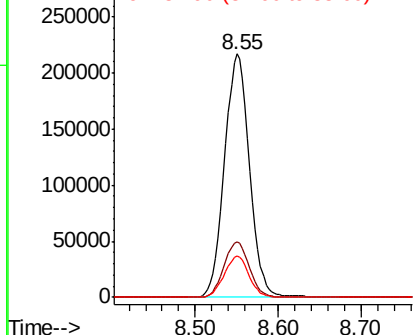
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Instrument :
MSVOA_N
ClientSampleId :
OK-01-100620

Tot Ion:114 Resp: 454083
Ion Ratio Lower Upper
114 100
63 22.7 0.0 45.0
88 16.9 0.0 34.0

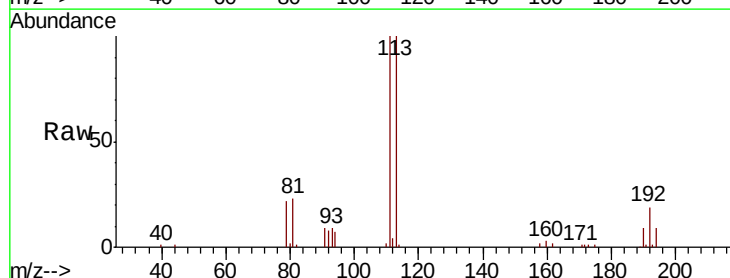


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

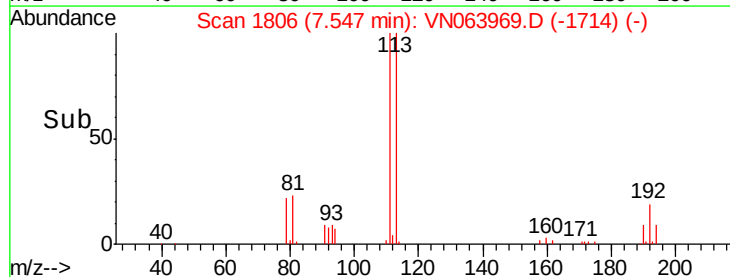
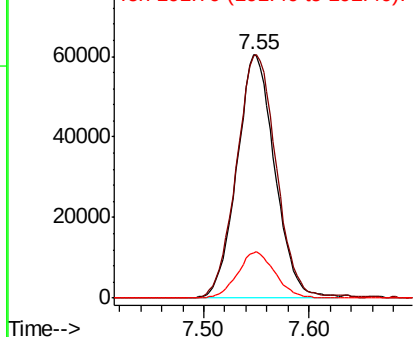


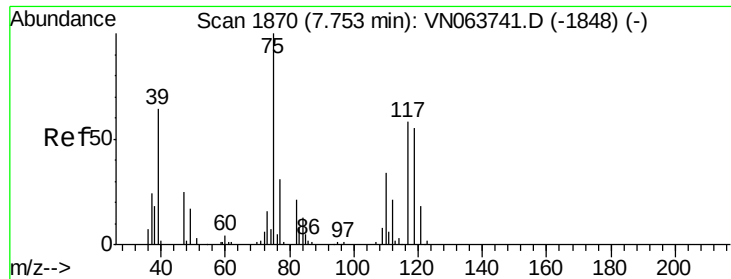
#35
Dibromofluoromethane
Concen: 47.982 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Tgt Ion:113 Resp: 151181
Ion Ratio Lower Upper
113 100
111 104.1 81.8 122.8
192 18.7 14.2 21.2



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: 4.476 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

OK-01-100620

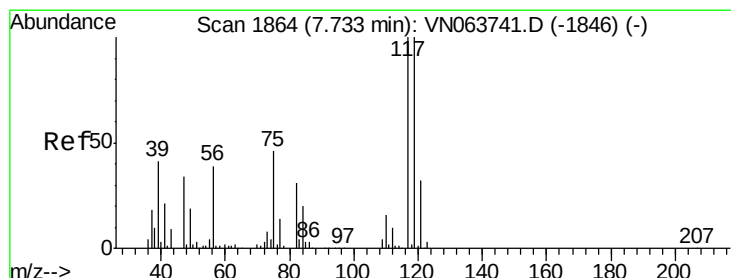
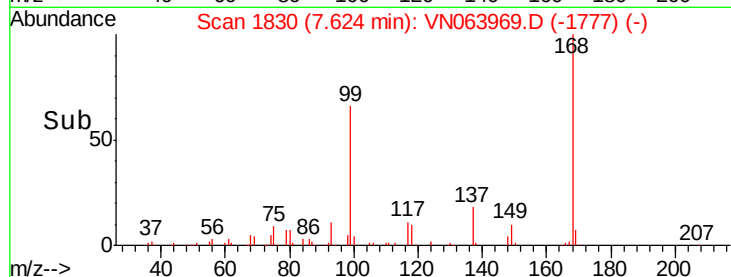
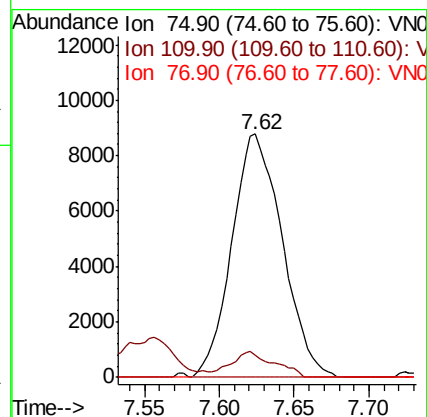
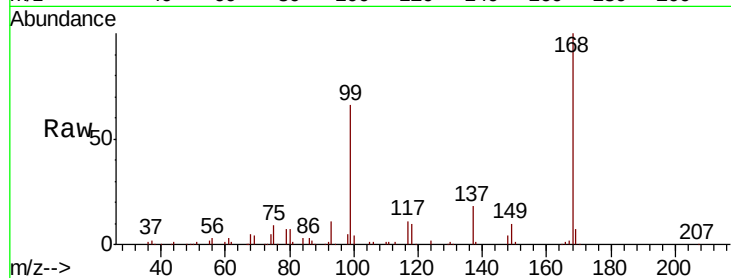
Tot Ion: 75 Resp: 20591

Ion Ratio Lower Upper

75 100

110 9.1 16.9 50.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 5.057 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

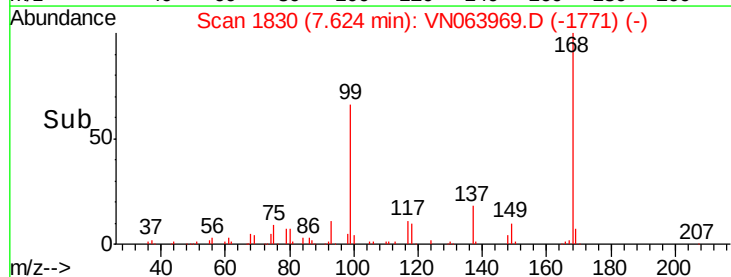
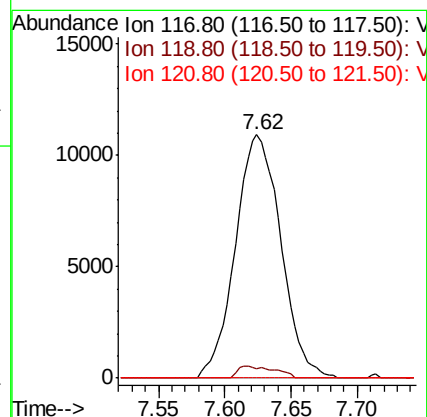
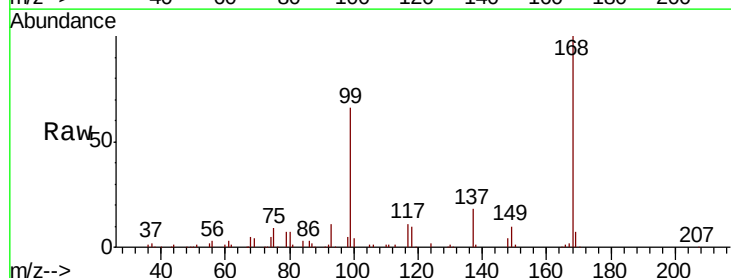
Tgt Ion: 117 Resp: 26086

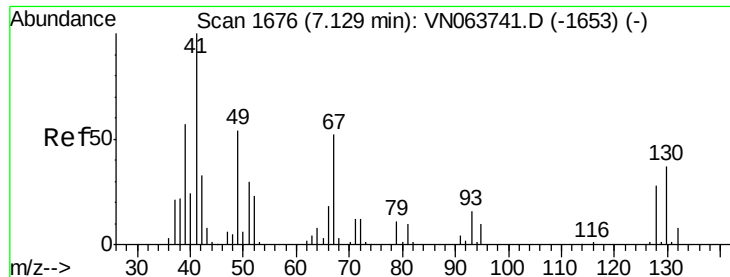
Ion Ratio Lower Upper

117 100

119 3.9 80.1 120.1#

121 0.0 25.7 38.5#

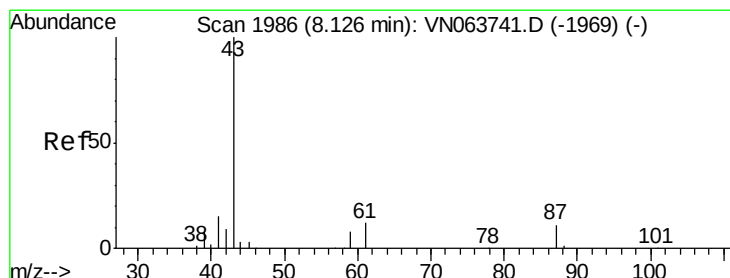
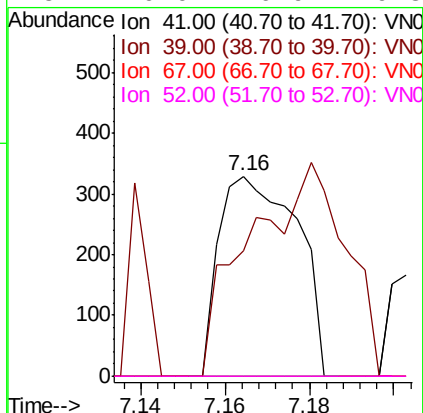
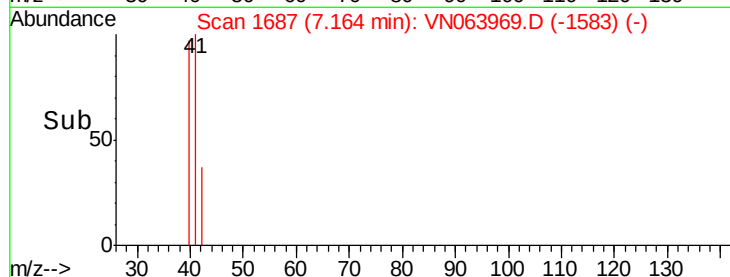
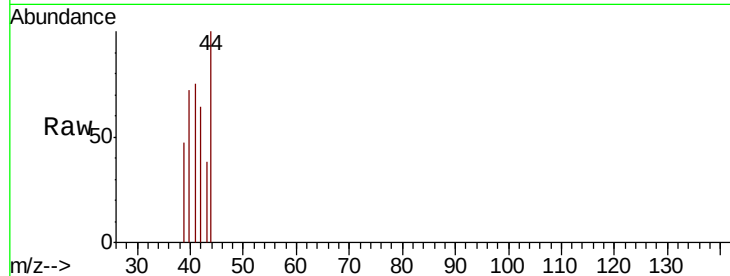




#41
Methacrylonitrile
Concen: 0.208 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. 0.04 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

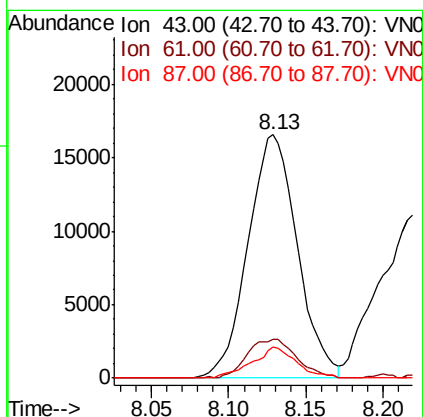
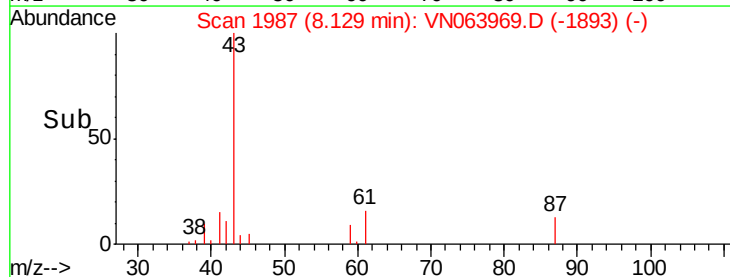
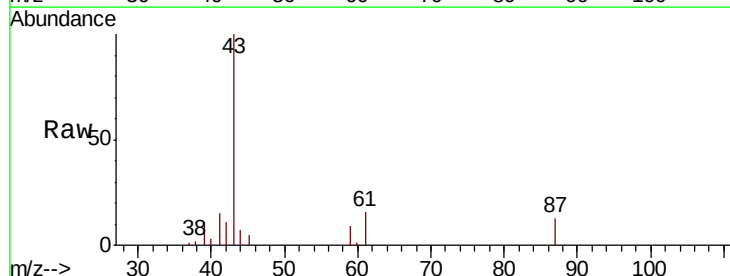
Instrument :
MSVOA_N
ClientSampled :
OK-01-100620

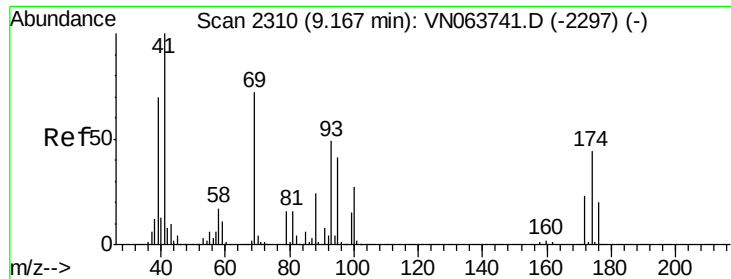
Tot Ion: 41 Resp: 423
Ion Ratio Lower Upper
41 100
39 131.0 42.5 63.7#
67 0.0 57.4 86.2#
52 0.0 26.9 40.3#



#43
Isopropyl Acetate
Concen: 4.880 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Tgt Ion: 43 Resp: 36787
Ion Ratio Lower Upper
43 100
61 16.0 14.2 21.4
87 11.4 9.0 13.6

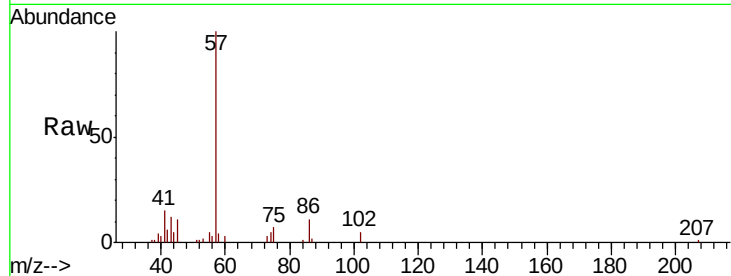




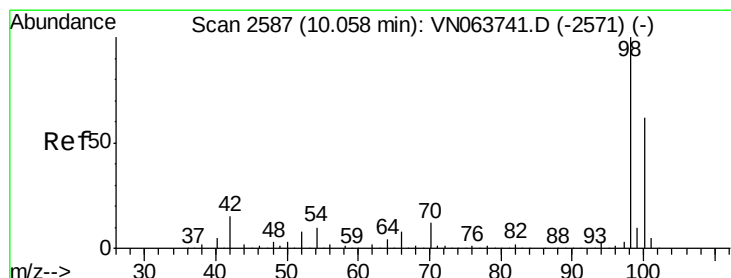
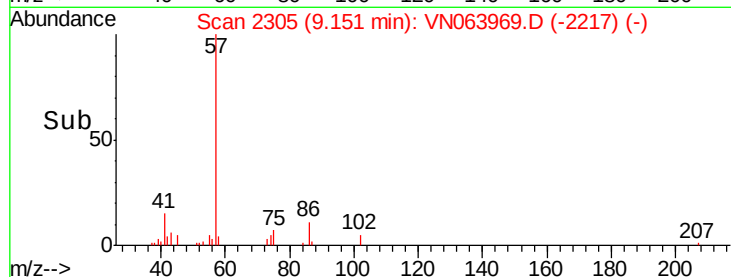
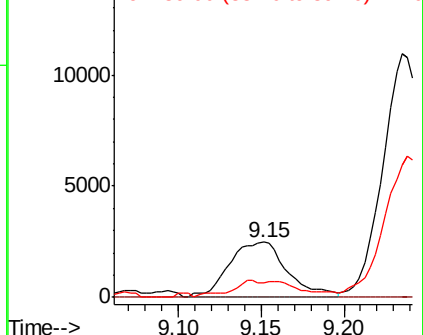
#48
Methvl methacrylate
Concen: 1.615 ug/l
RT: 9.15 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Instrument :
MSVOA_N
ClientSampleId :
OK-01-100620

Tot Ion: 41 Resp: 6017
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 9.4 57.5 86.3#

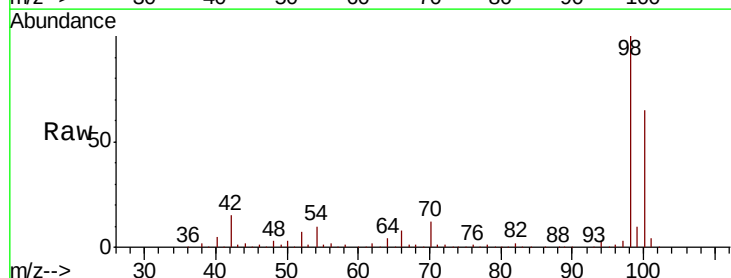


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

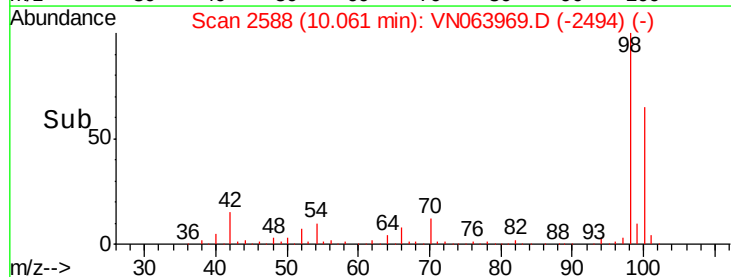
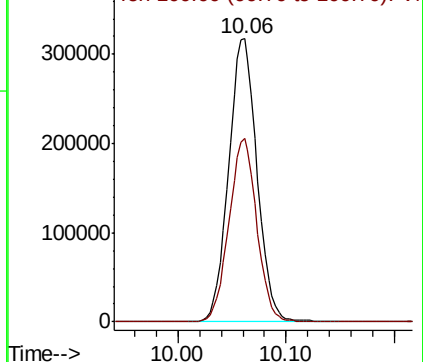


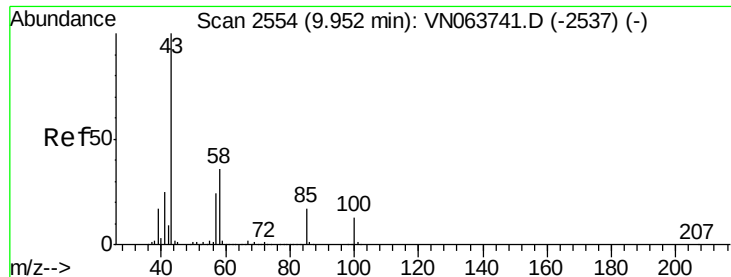
#50
Toluene-d8
Concen: 48.740 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Tgt Ion: 98 Resp: 582166
Ion Ratio Lower Upper
98 100
100 63.5 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

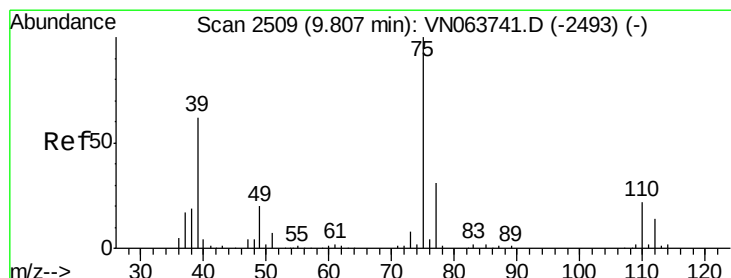
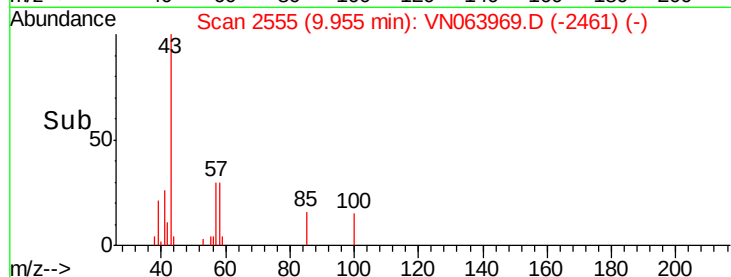
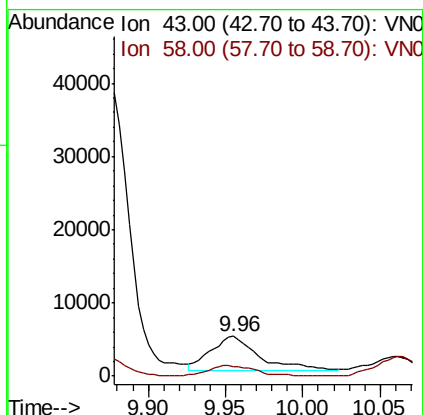
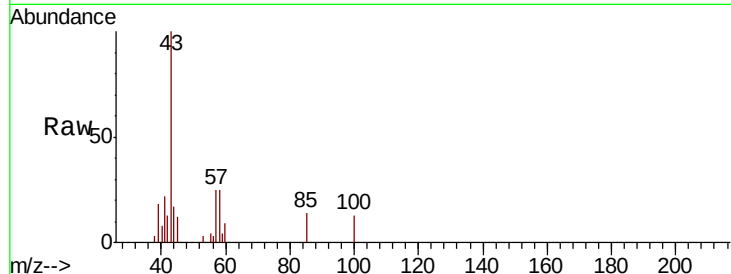




#51
 4-Methyl-2-Pentanone
 Concen: 2.322 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN063969.D
 Acq: 8 Oct 2020 3:17

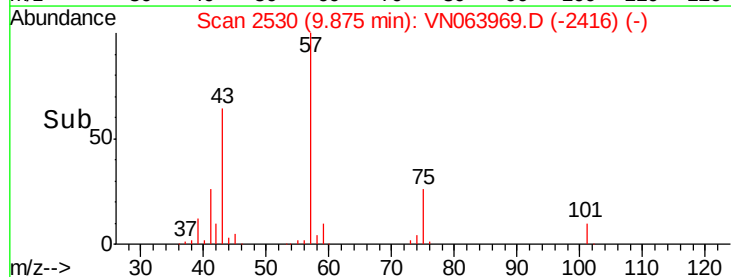
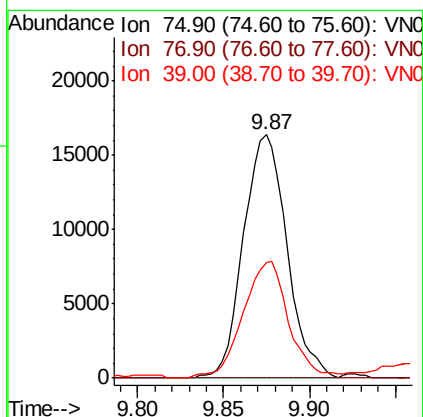
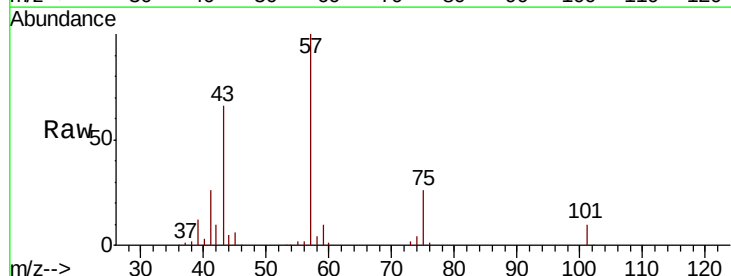
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-01-100620

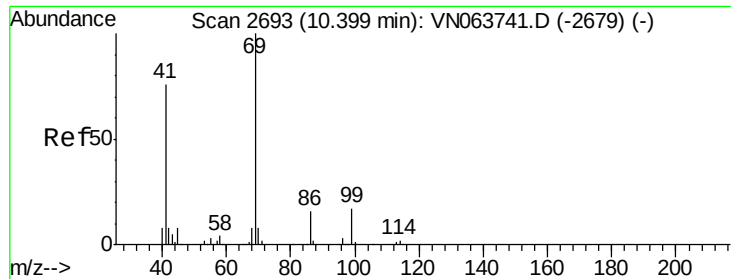
Tot Ion: 43 Resp: 10274
 Ion Ratio Lower Upper
 43 100
 58 29.5 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.091 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063969.D
 Acq: 8 Oct 2020 3:17

Tgt Ion: 75 Resp: 28795
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 47.7 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.432 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

OK-01-100620

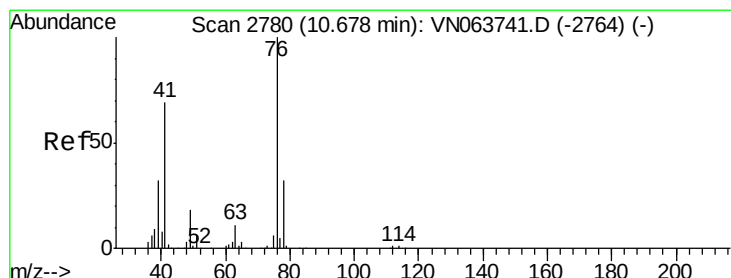
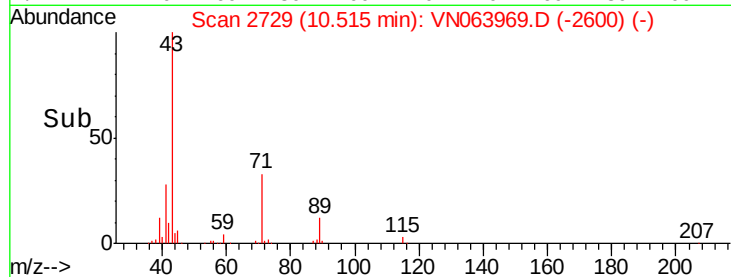
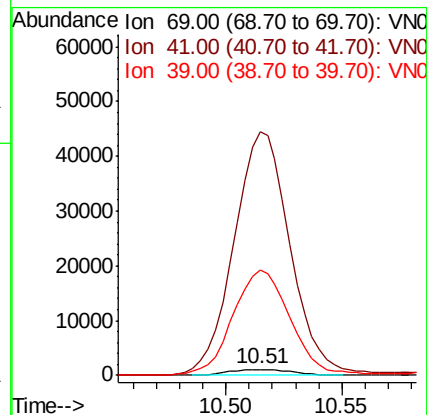
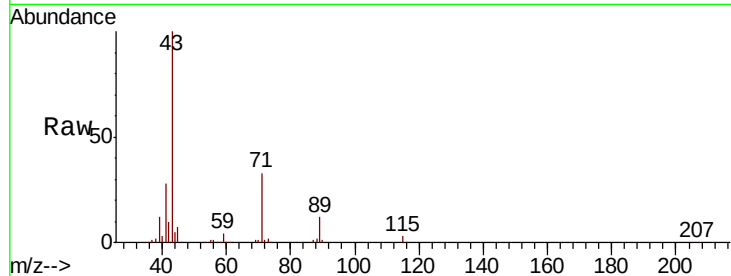
Tot Ion: 69 Resp: 1998

Ion Ratio Lower Upper

69 100

41 3788.4 61.1 91.7#

39 1661.9 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 0.606 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063969.D

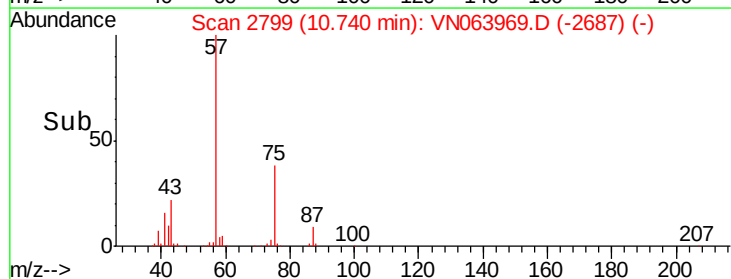
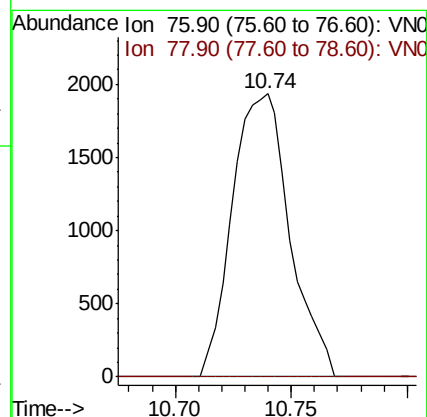
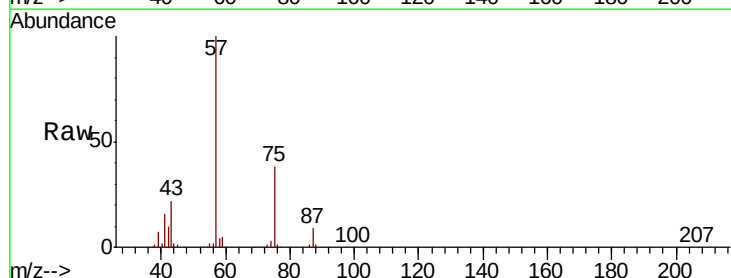
Acq: 8 Oct 2020 3:17

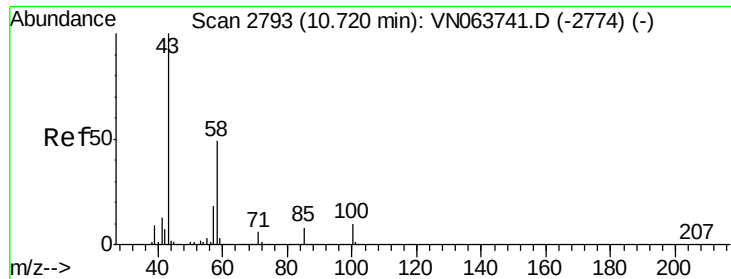
Tgt Ion: 76 Resp: 3340

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#





#59

2-Hexanone

Concen: 18.810 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampled :

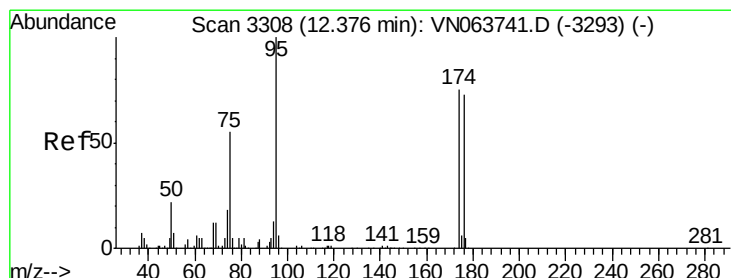
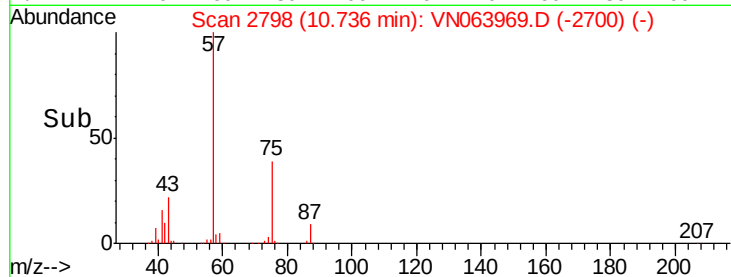
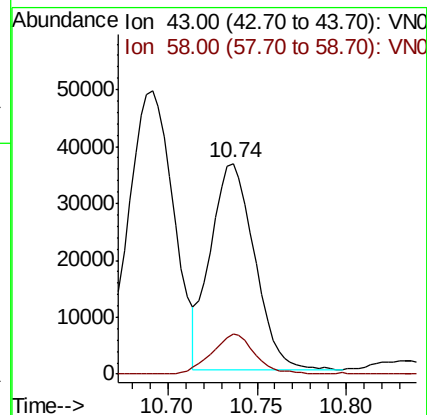
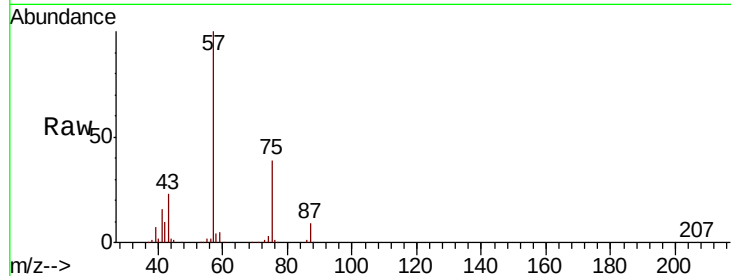
OK-01-100620

Tot Ion: 43 Resp: 61818

Ion Ratio Lower Upper

43 100

58 19.1 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 49.470 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

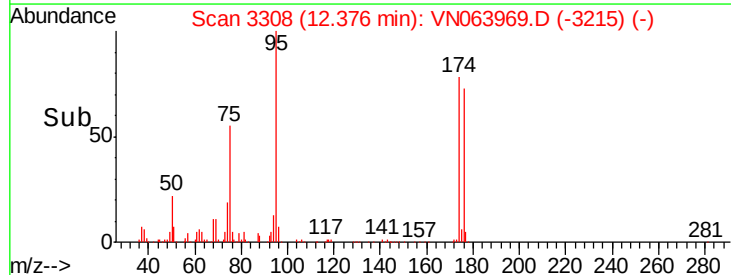
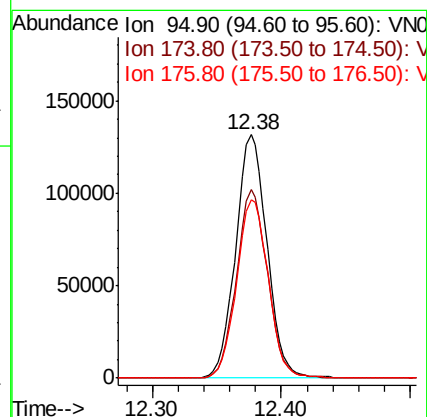
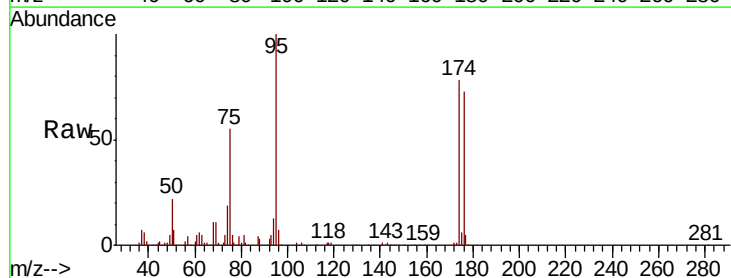
Tgt Ion: 95 Resp: 222120

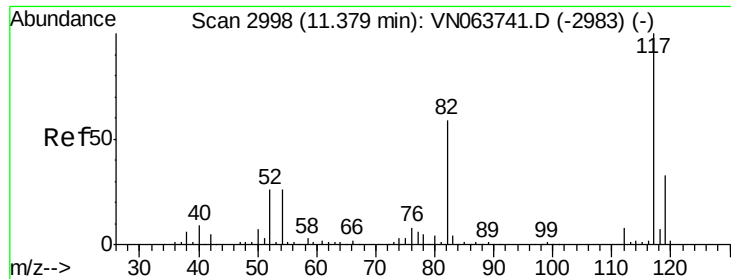
Ion Ratio Lower Upper

95 100

174 76.8 0.0 150.6

176 74.3 0.0 145.4

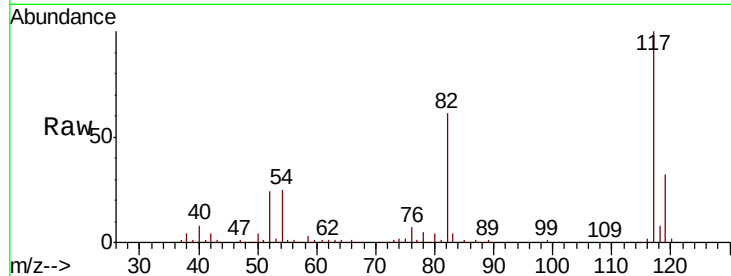




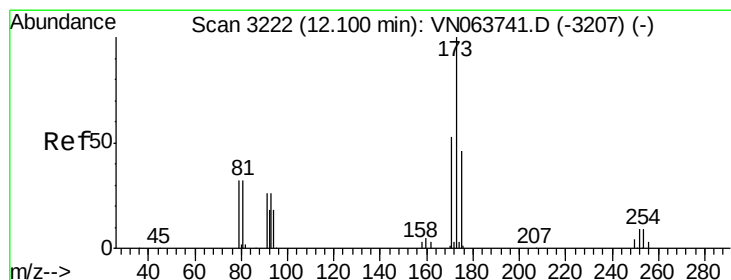
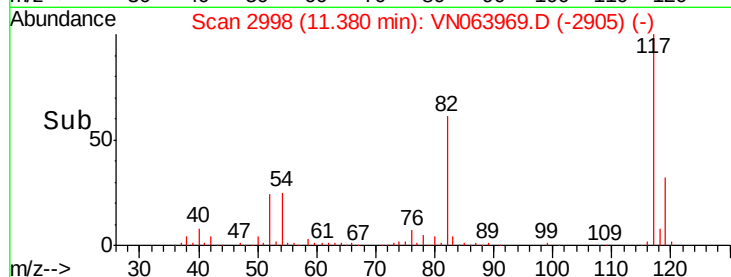
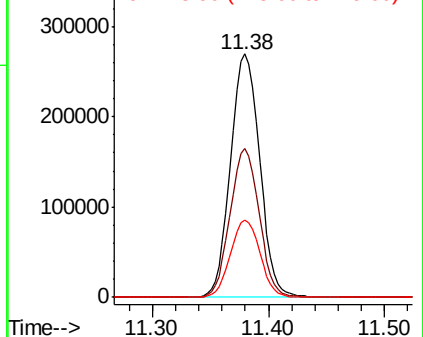
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Instrument :
MSVOA_N
ClientSampleId :
OK-01-100620

Tot Ion:117 Resp: 469083
Ion Ratio Lower Upper
117 100
82 61.3 47.4 71.2
119 31.9 26.4 39.6

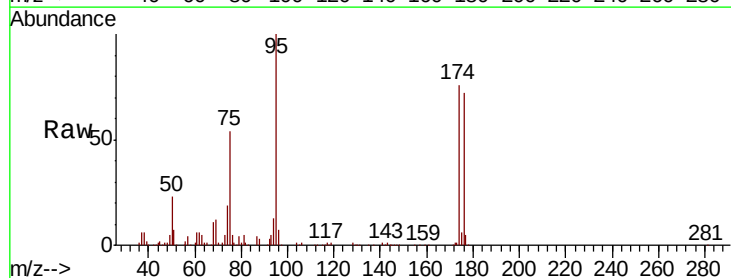


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

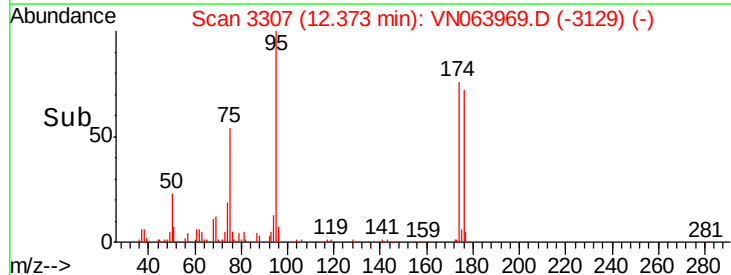
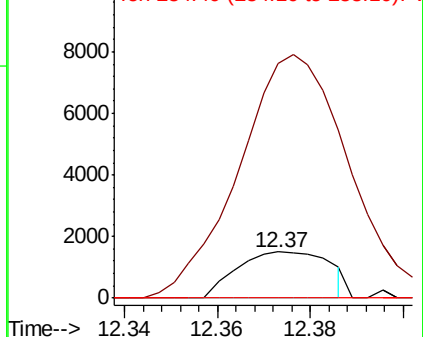


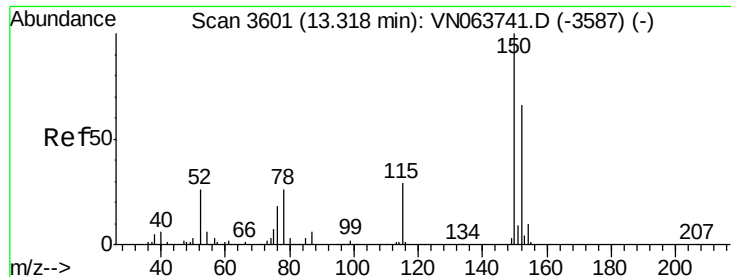
#71
Bromoform
Concen: 0.740 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063969.D
Acq: 8 Oct 2020 3:17

Tgt Ion:173 Resp: 2088
Ion Ratio Lower Upper
173 100
175 526.1 23.5 70.5#
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# 3601

Delta R.T. 0.00 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

OK-01-100620

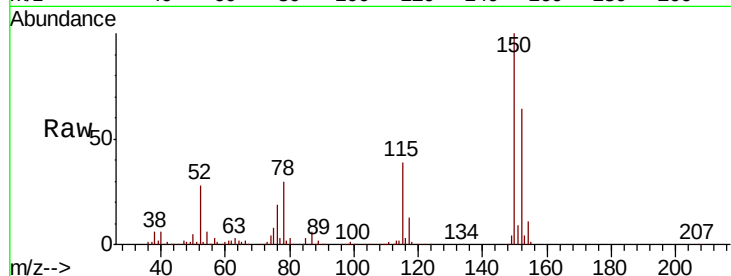
Tot Ion:152 Resp: 189127

Ion Ratio Lower Upper

152 100

115 60.8 31.3 93.8

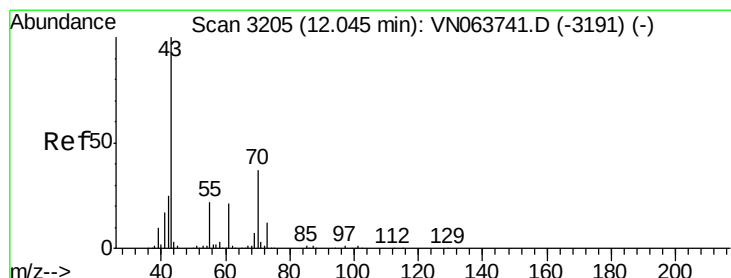
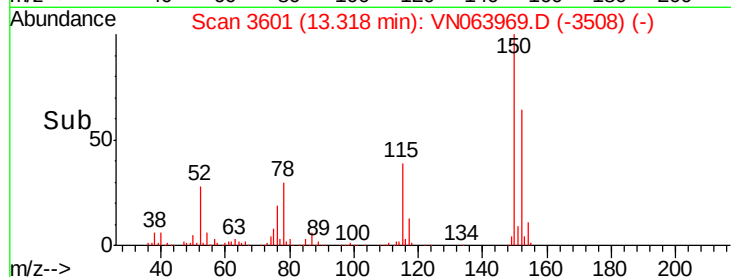
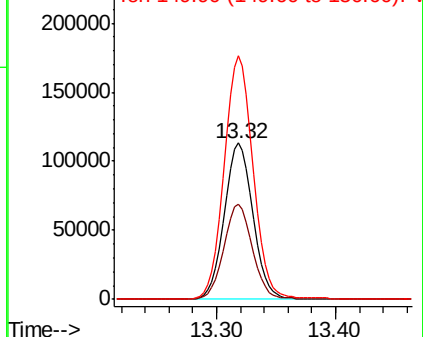
150 156.6 0.0 341.8



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-ethyl acetate

Concen: 2.636 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Tgt Ion: 43 Resp: 2815

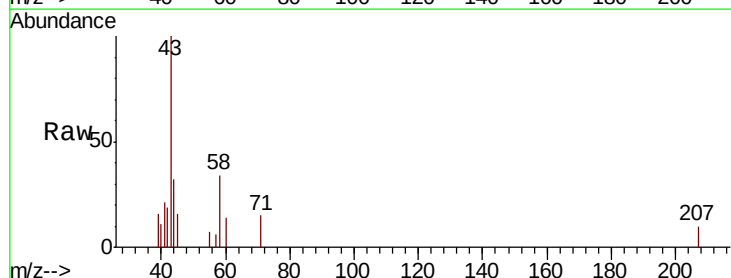
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 9.9 17.9 26.9#

61 0.0 17.0 25.4#

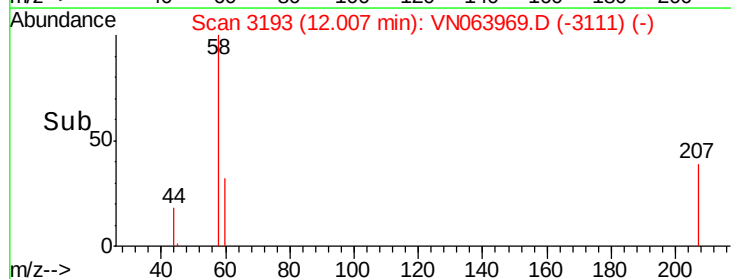
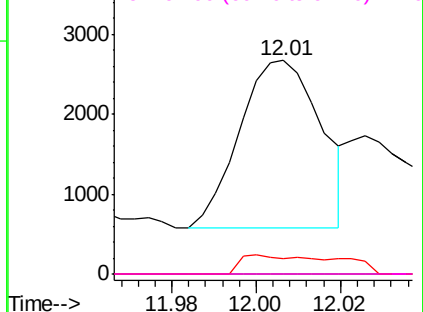


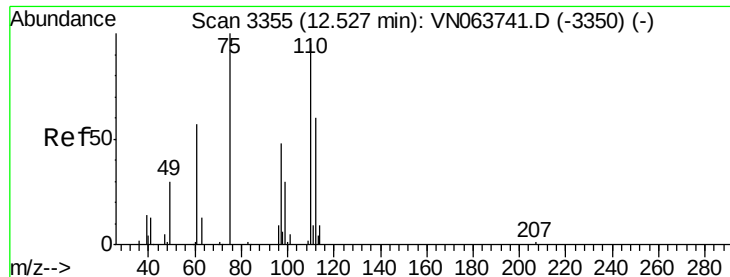
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

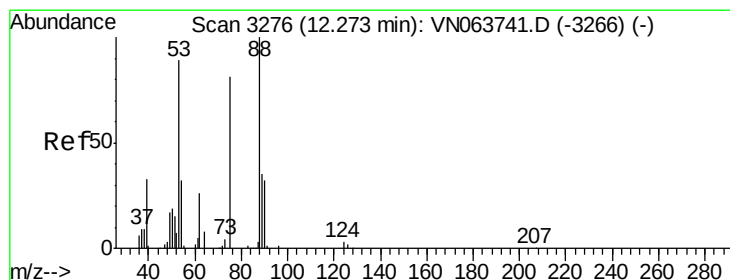
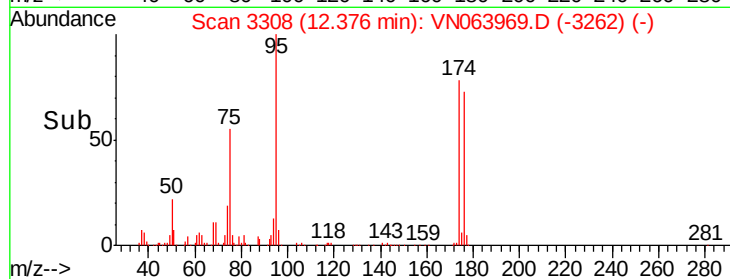
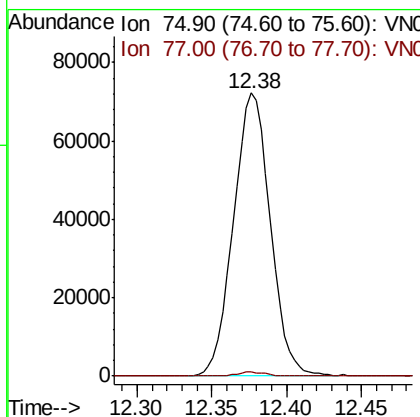
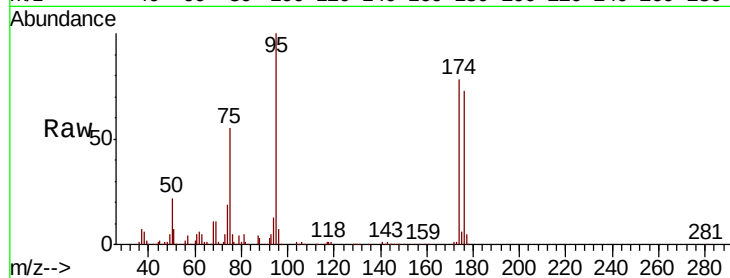




#76
 1,2,3-Trichloropropane
 Concen: 29.723 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063969.D
 Acq: 8 Oct 2020 3:17

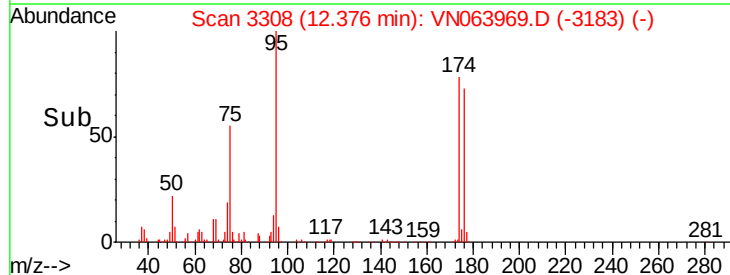
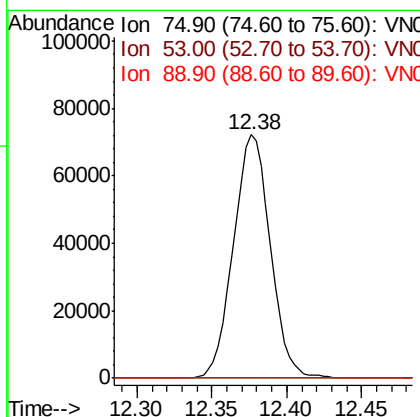
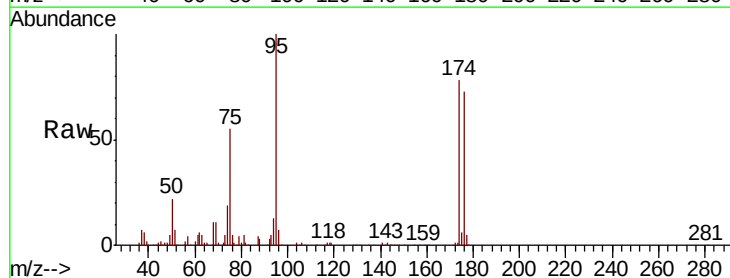
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-01-100620

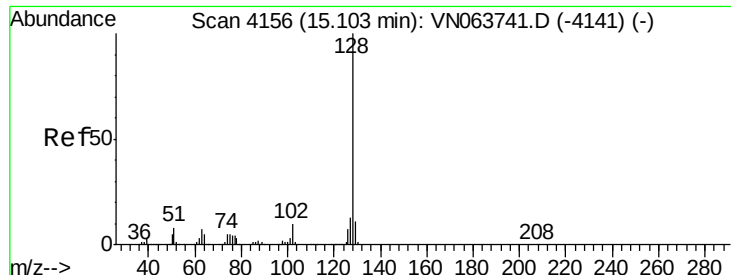
Tot Ion: 75 Resp: 123917
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 85.606 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063969.D
 Acq: 8 Oct 2020 3:17

Tgt Ion: 75 Resp: 123917
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.2 132.2#
 89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 2.276 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063969.D

Acq: 8 Oct 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

OK-01-100620

Tot Ion:128 Resp: 3732

Ion Ratio Lower Upper

128 100

127 5.4 10.5 15.7#

129 7.0 8.7 13.1#

