

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059518.D
 Acq On : 6 Dec 2019 16:21
 Operator : JC/SP
 Sample : K6147-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:21:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	226340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	373803	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	343086	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	126995	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	169722	60.36	ug/l	0.00
Spiked Amount			Recovery	=	120.72%	
35) Dibromofluoromethane	7.57	113	121050	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
50) Toluene-d8	10.08	98	475698	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	12.40	95	150549	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	

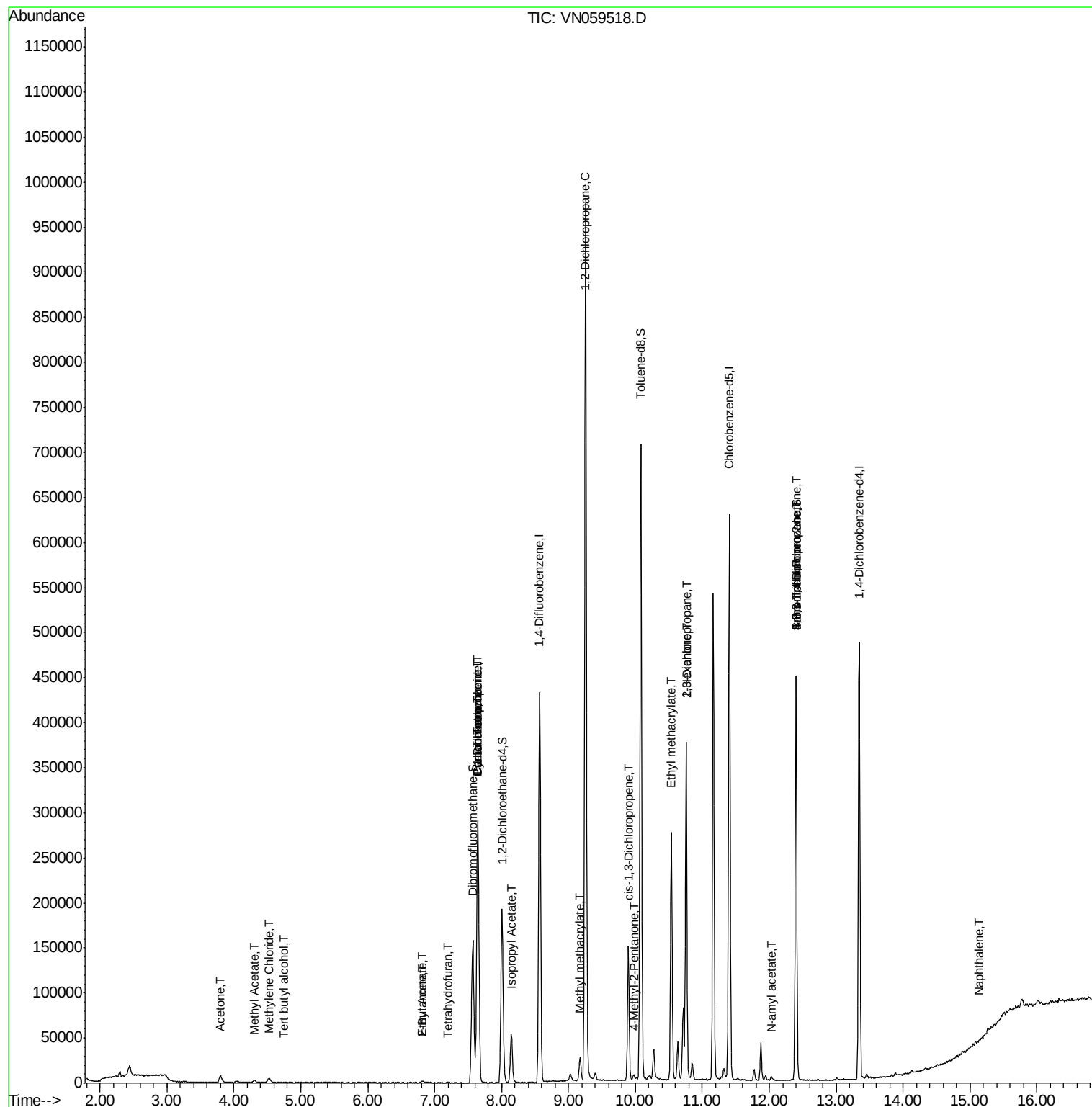
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	215	0.406	ug/l #	73
16) Acetone	3.80	43	12878	3.060	ug/l #	85
18) Methyl Acetate	4.31	43	5454	1.441	ug/l #	86
20) Methylene Chloride	4.52	84	3989	0.315	ug/l	92
25) 2-Butanone	6.82	43	3866	1.809	ug/l	92
29) Tetrahydrofuran	7.20	42	580	0.432	ug/l #	34
31) Cyclohexane	7.64	56	5299	1.119	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	19827	5.097	ug/l #	50
37) Ethyl Acetate	6.82	43	3866	0.890	ug/l #	68
38) Carbon Tetrachloride	7.64	117	23059	6.163	ug/l #	17
43) Isopropyl Acetate	8.15	43	62231	9.630	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1072	0.352	ug/l #	44
48) Methyl methacrylate	9.17	41	4519	1.550	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	4723	1.231	ug/l #	82
54) cis-1,3-Dichloropropene	9.90	75	24853	5.245	ug/l #	73
56) Ethyl methacrylate	10.53	69	1052	1.684	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3585	0.763	ug/l #	42
59) 2-Hexanone	10.76	43	57493	19.915	ug/l #	52
71) Bromoform	12.40	173	1027	0.489	ug/l #	1
74) N-amyl acetate	12.03	43	3153	0.769	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	79757	25.258	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79757	66.287	ug/l #	15
95) Naphthalene	15.14	128	143	2.446	ug/l #	69

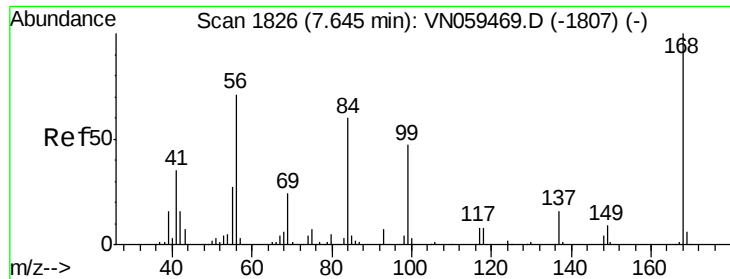
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

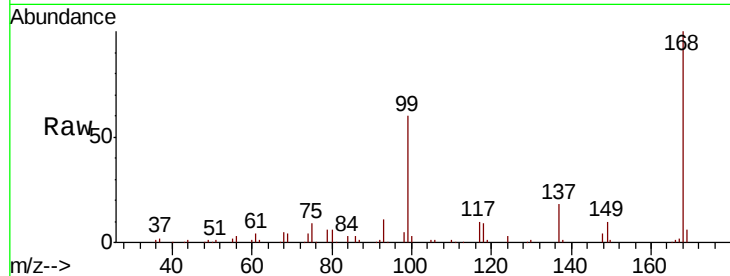
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 226340

Ion Ratio Lower Upper

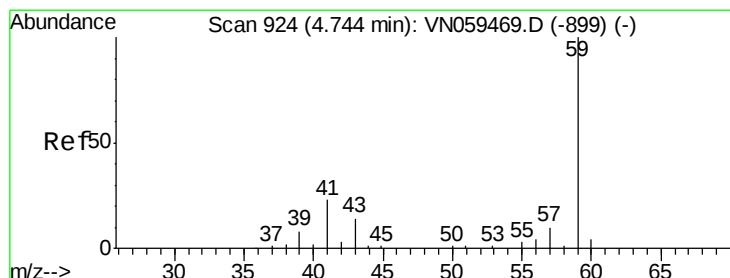
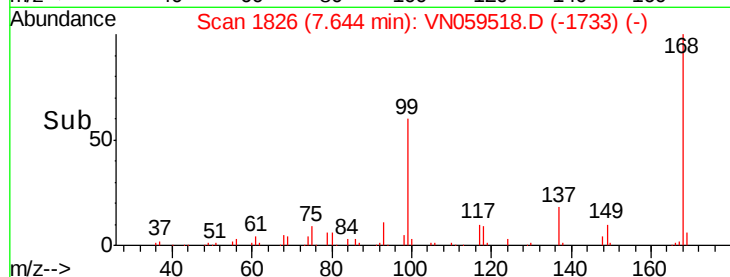
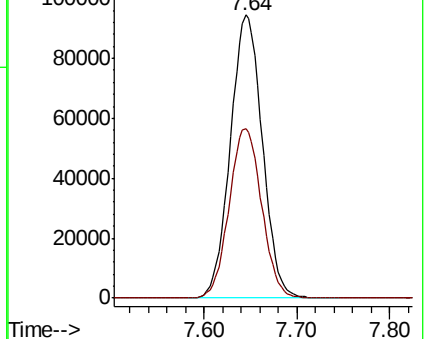
168 100

99 60.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.406 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.00 min

Lab File: VN059518.D

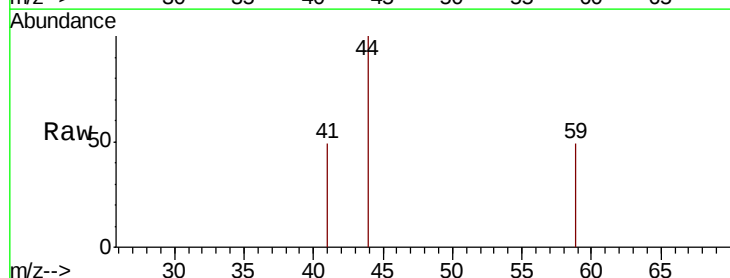
Acq: 6 Dec 2019 16:21

Tgt Ion: 59 Resp: 215

Ion Ratio Lower Upper

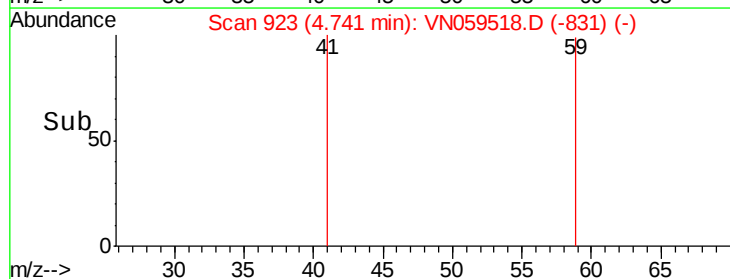
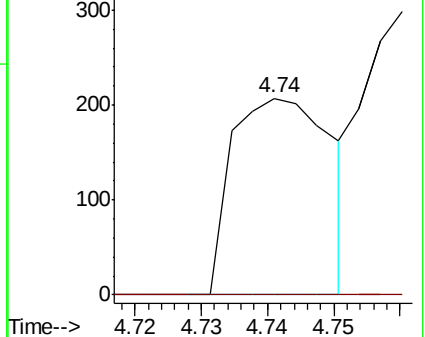
59 100

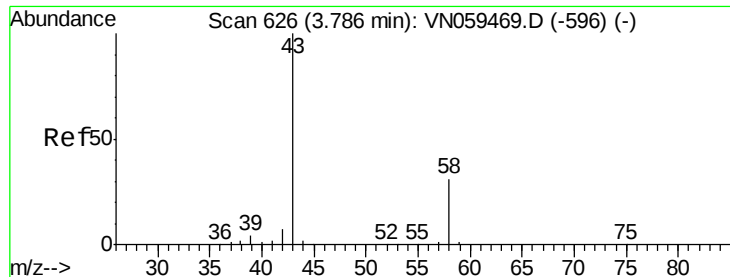
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

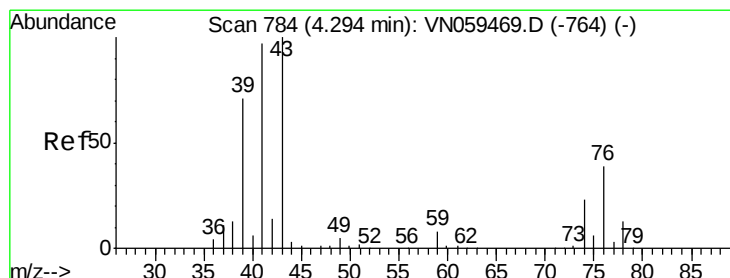
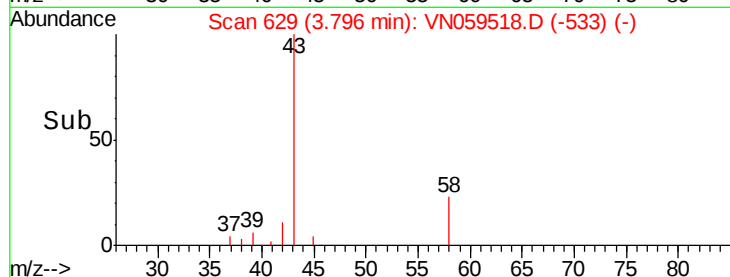
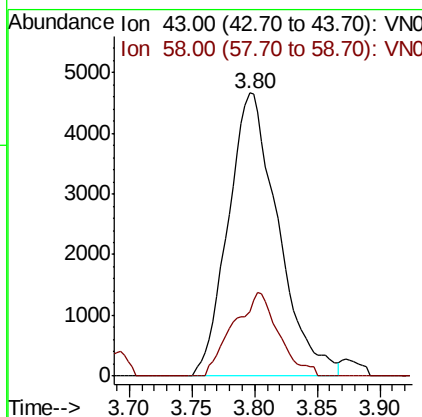
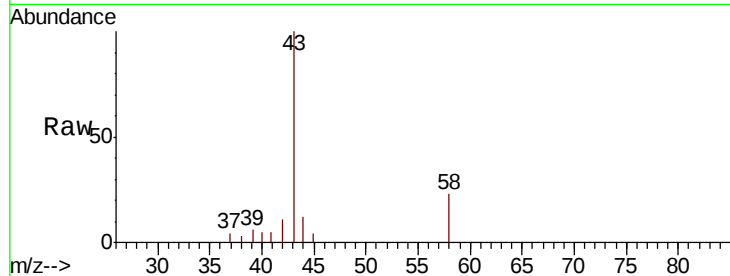




#16
Acetone
Concen: 3.060 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

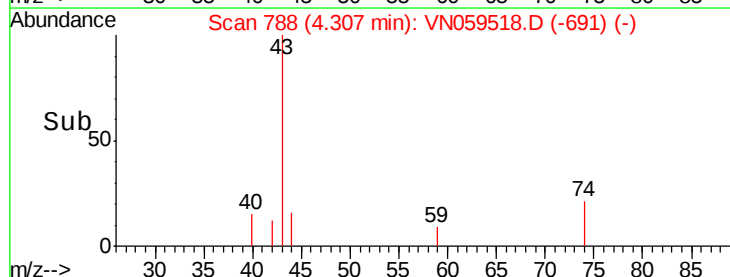
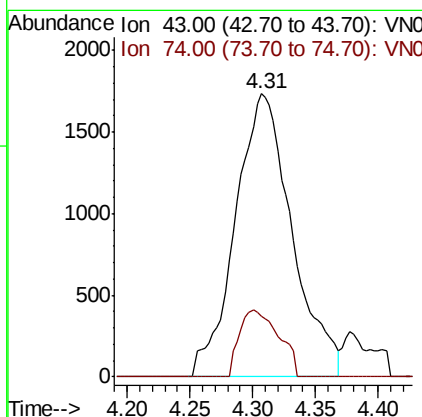
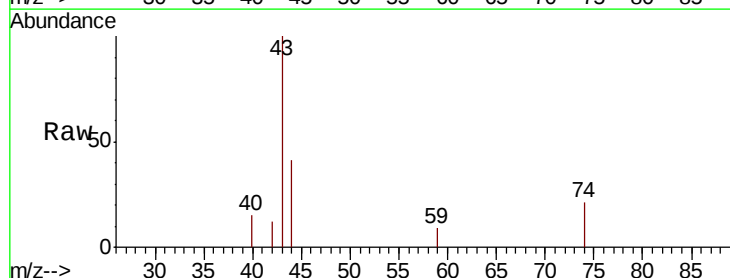
Instrument :
MSVOA_N
ClientSampled :

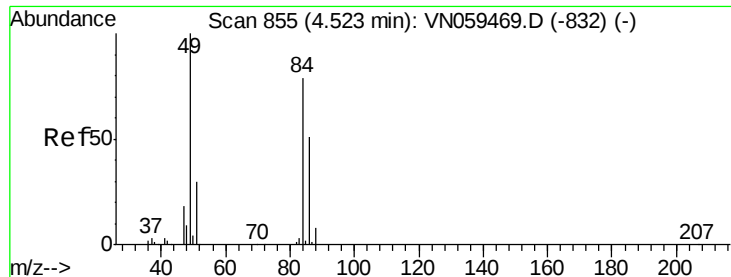
Tot Ion: 43 Resp: 12878
Ion Ratio Lower Upper
43 100
58 22.9 24.9 37.3#



#18
Methyl Acetate
Concen: 1.441 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Tgt Ion: 43 Resp: 5454
Ion Ratio Lower Upper
43 100
74 16.4 18.3 27.5#

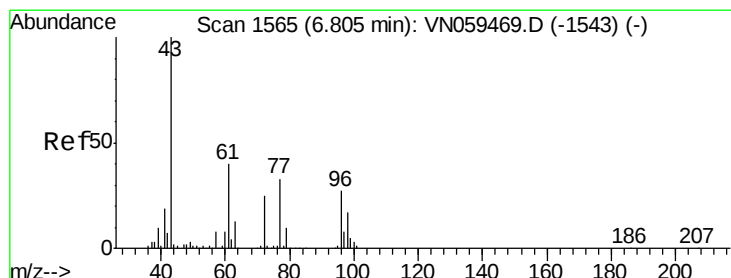
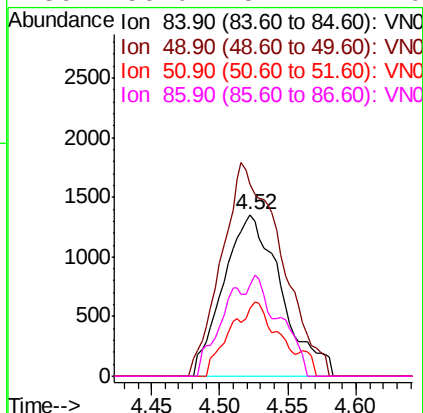
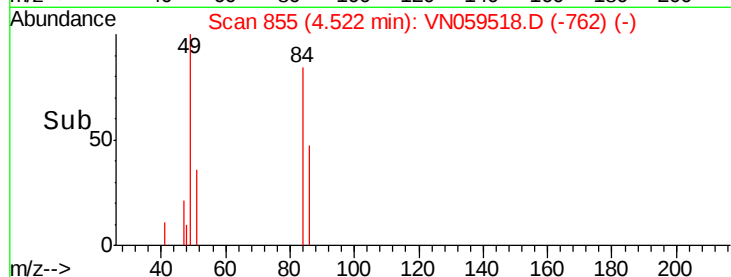
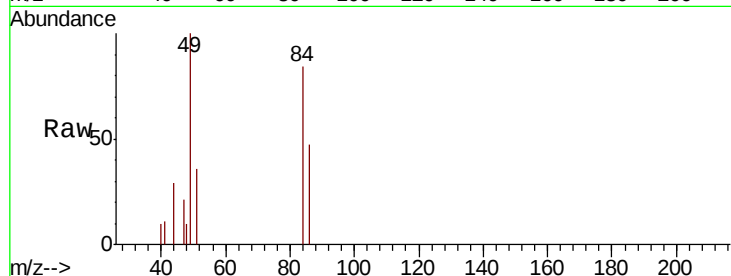




#20
Methvlene Chloride
Concen: 0.315 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

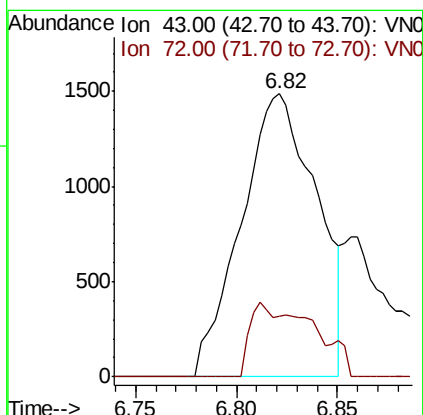
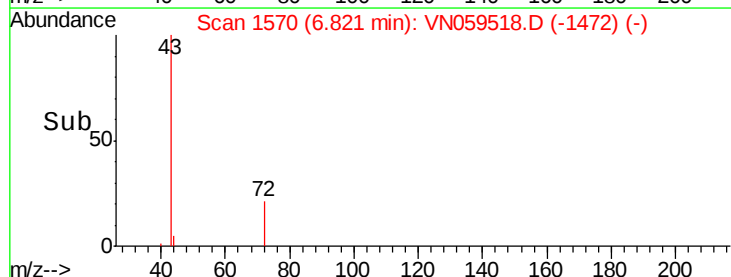
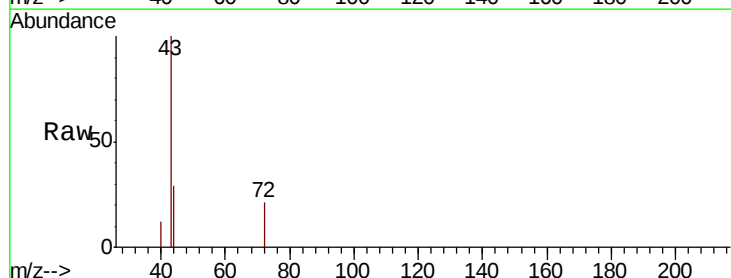
Instrument :
MSVOA_N
ClientSampled :

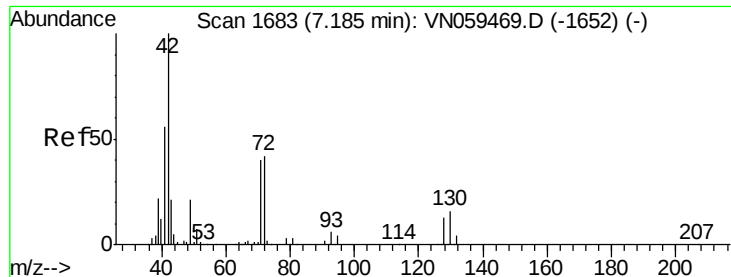
Tot Ion: 84 Resp: 3989
Ion Ratio Lower Upper
84 100
49 118.5 101.1 151.7
51 42.3 30.7 46.1
86 56.0 51.4 77.0



#25
2-Butanone
Concen: 1.809 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Tgt Ion: 43 Resp: 3866
Ion Ratio Lower Upper
43 100
72 21.4 20.2 30.2





#29

Tetrahydrofuran

Concen: 0.432 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.02 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

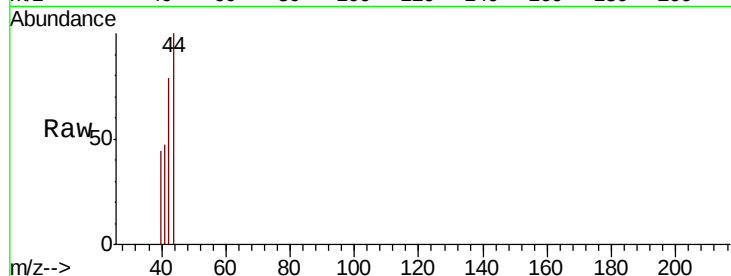
Tot Ion: 42 Resp: 580

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

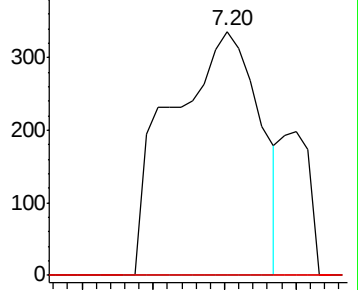
71 0.0 32.0 48.0#



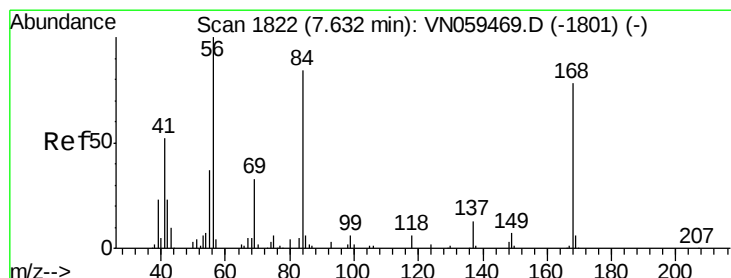
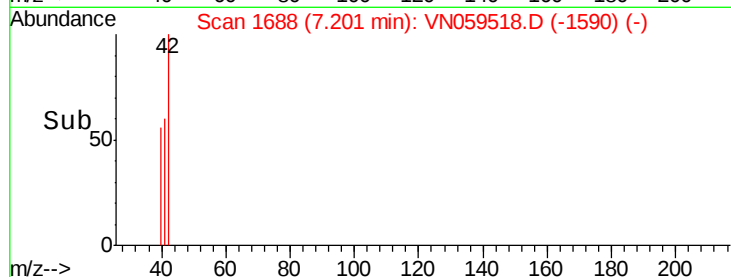
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.119 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

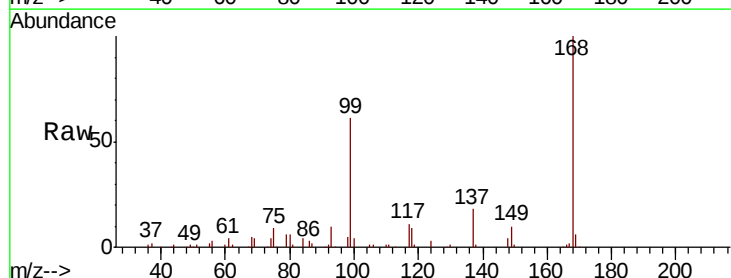
Tgt Ion: 56 Resp: 5299

Ion Ratio Lower Upper

56 100

69 154.6 26.2 39.4#

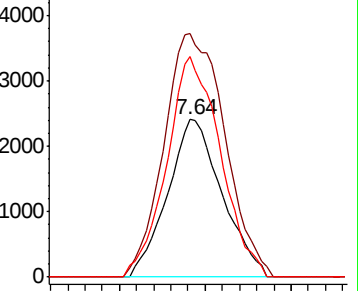
84 139.7 66.8 100.2#



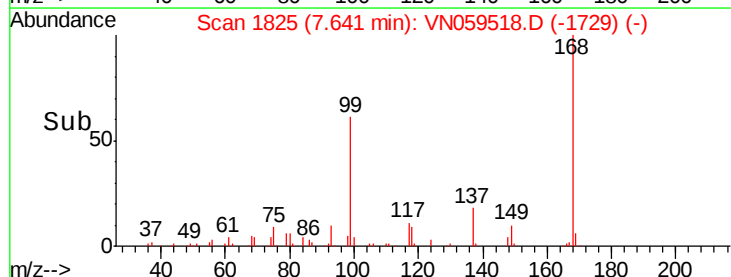
Abundance Ion 56.00 (55.70 to 56.70): VN0

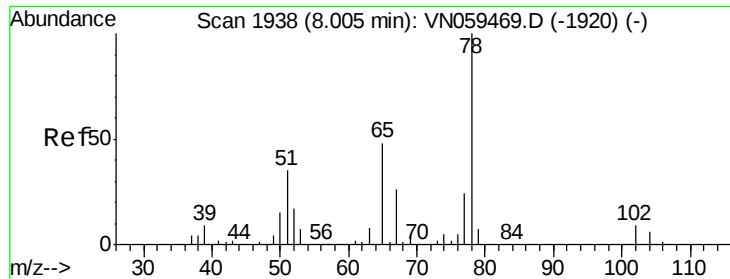
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

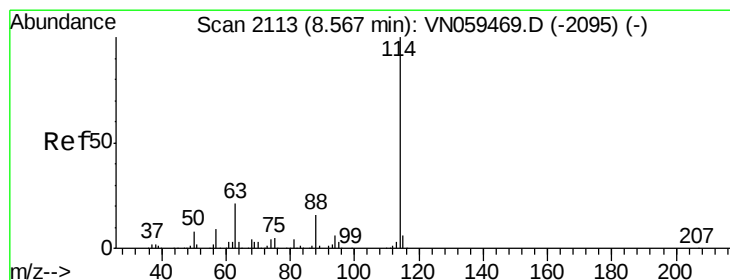
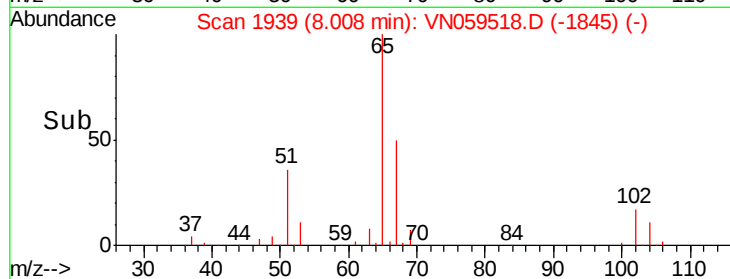
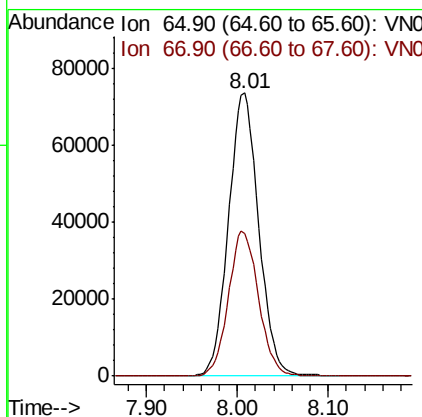
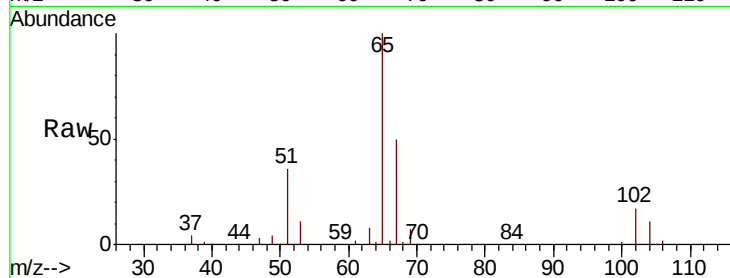




#33
 1,2-Dichloroethane-d4
 Concen: 60.362 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059518.D
 Acq: 6 Dec 2019 16:21

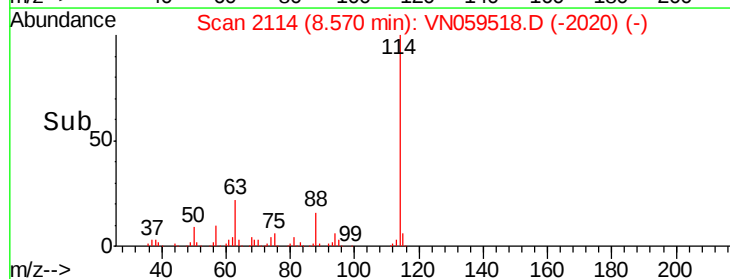
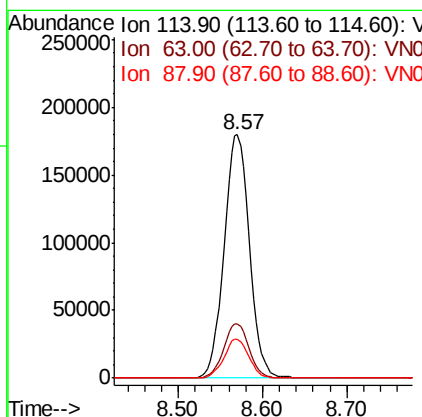
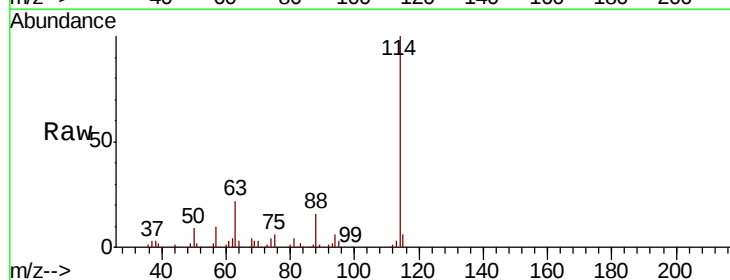
Instrument :
 MSVOA_N
 ClientSampleId :

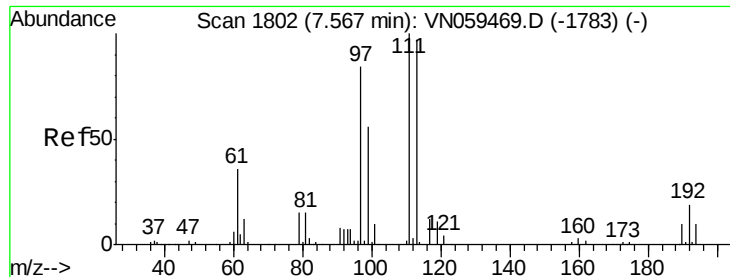
Tot Ion: 65 Resp: 169722
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059518.D
 Acq: 6 Dec 2019 16:21

Tgt Ion: 114 Resp: 373803
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 42.4
 88 15.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.994 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

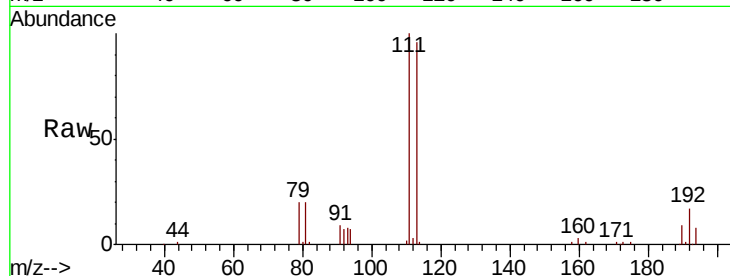
Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:113 Resp: 121050

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.5	123.7
192	18.1	16.1	24.1

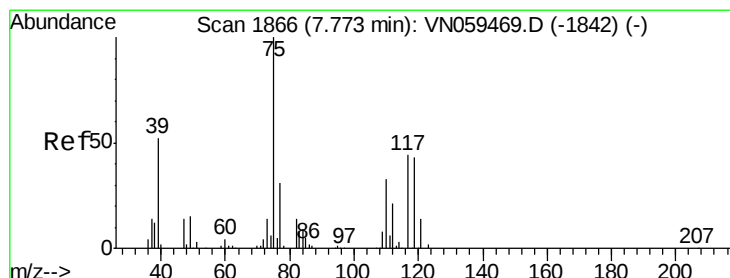
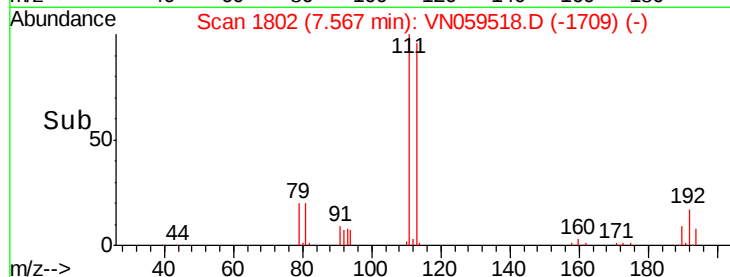
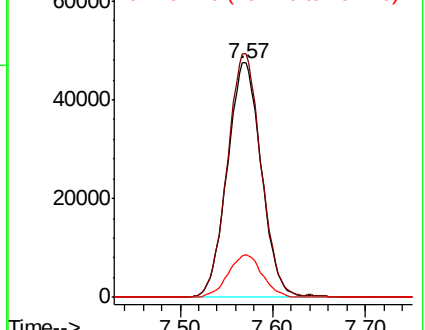


Abundance

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: 5.097 ug/l

RT: 7.64 min Scan# 1825

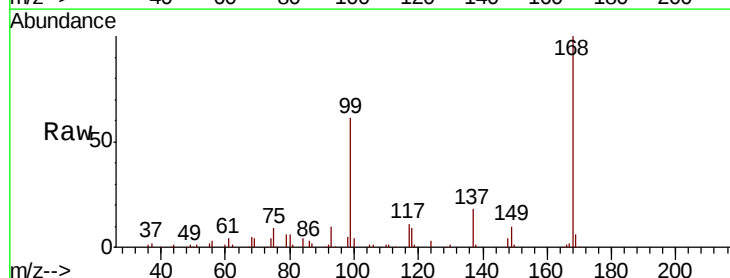
Delta R.T. -0.13 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

Tgt Ion: 75 Resp: 19827

Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.9	50.7#
77	0.0	25.1	37.7#

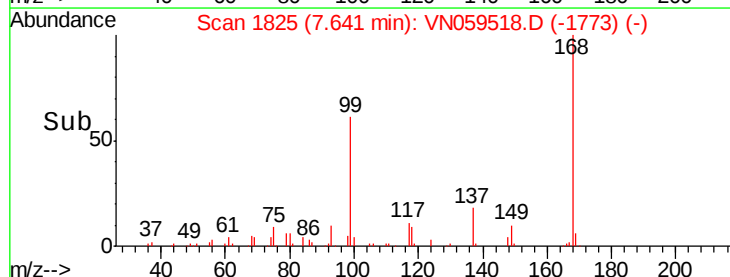
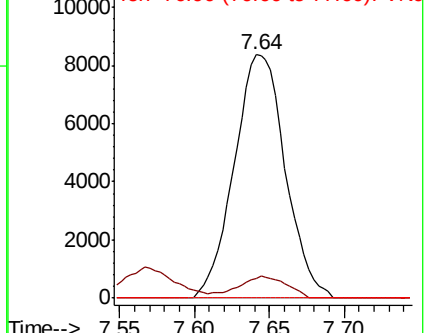


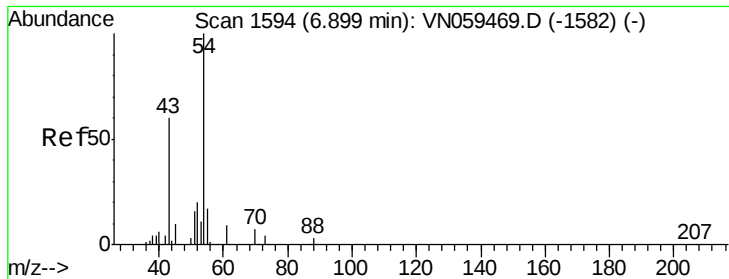
Abundance

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: 0.890 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.08 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

Instrument :
MSVOA_N
ClientSampled :

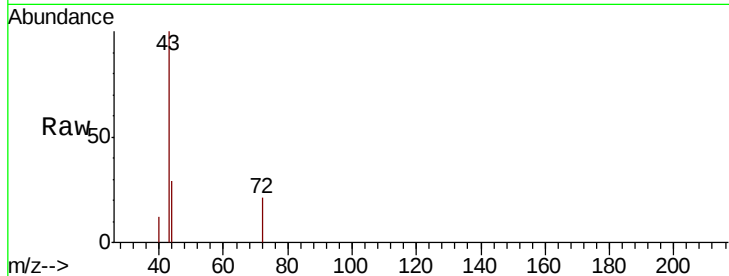
Tot Ion: 43 Resp: 3866

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

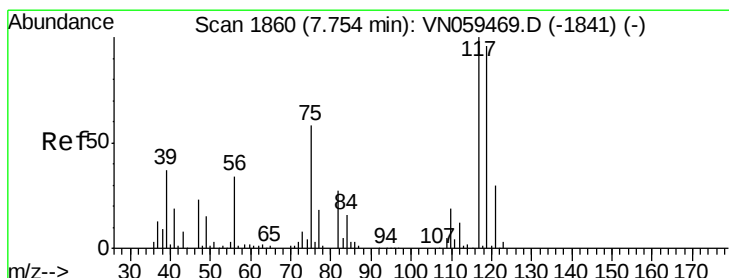
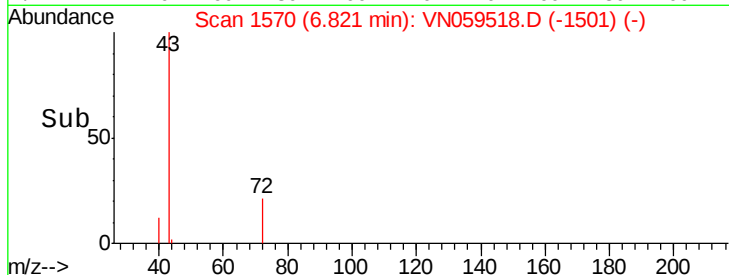
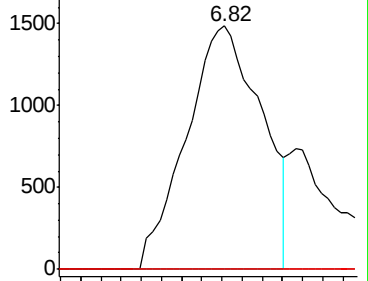
70 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN059518.D (-1570) (-)

Ion 60.90 (60.60 to 61.60): VN059518.D (-1570) (-)

Ion 70.00 (69.70 to 70.70): VN059518.D (-1570) (-)



#38

Carbon Tetrachloride

Concen: 6.163 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

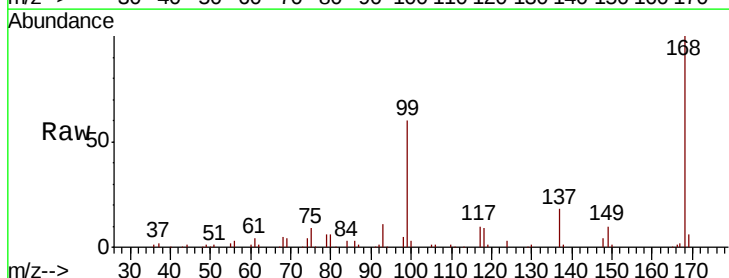
Tgt Ion: 117 Resp: 23059

Ion Ratio Lower Upper

117 100

119 6.2 76.6 114.8#

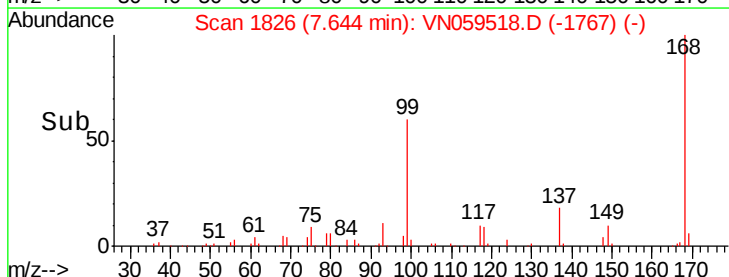
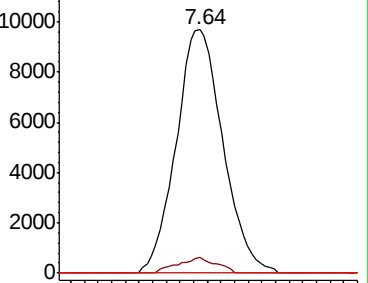
121 0.0 24.0 36.0#

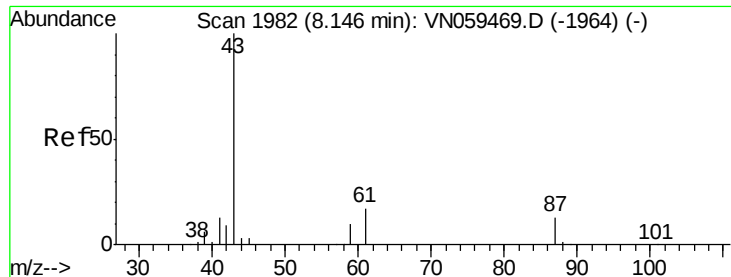


Abundance Ion 116.80 (116.50 to 117.50): VN059518.D (-1826) (-)

Ion 118.80 (118.50 to 119.50): VN059518.D (-1826) (-)

Ion 120.80 (120.50 to 121.50): VN059518.D (-1826) (-)





#43

Isopropyl Acetate

Concen: 9.630 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

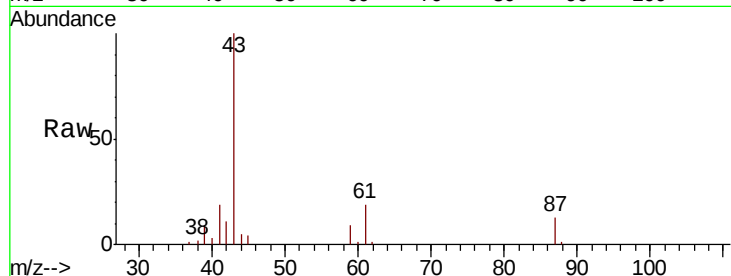
Tot Ion: 43 Resp: 62231

Ion Ratio Lower Upper

43 100

61 18.6 21.0 31.6#

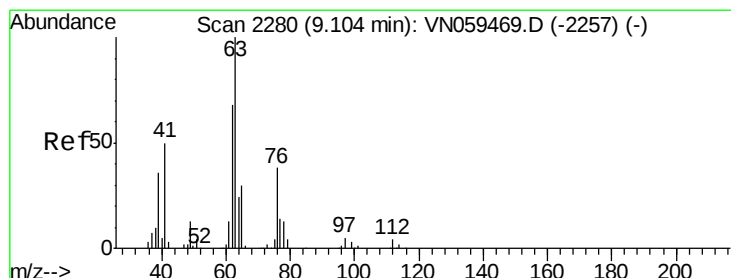
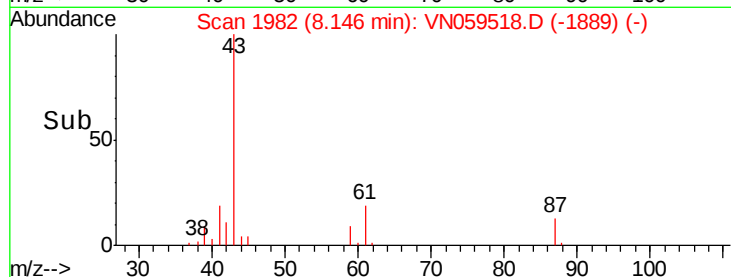
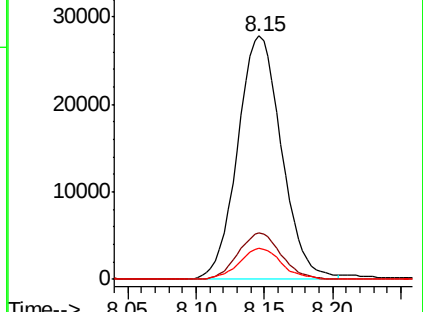
87 12.3 10.4 15.6



Abundance Ion 43.00 (42.70 to 43.70): VN059469.D (-1964) (-)

Ion 61.00 (60.70 to 61.70): VN059469.D (-1964) (-)

Ion 87.00 (86.70 to 87.70): VN059469.D (-1964) (-)



#45

1,2-Dichloropropane

Concen: 0.352 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059518.D

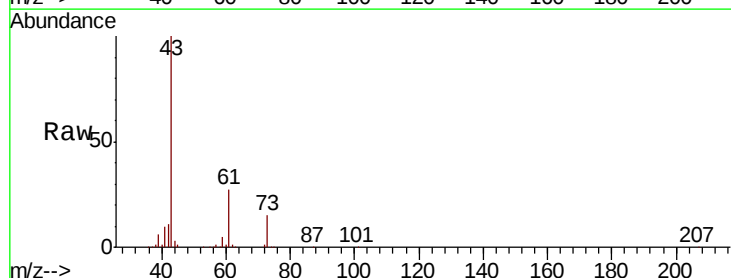
Acq: 6 Dec 2019 16:21

Tgt Ion: 63 Resp: 1072

Ion Ratio Lower Upper

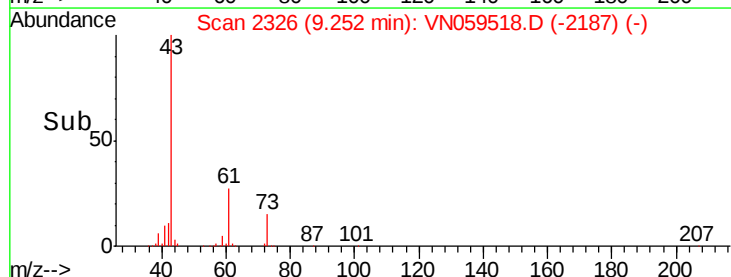
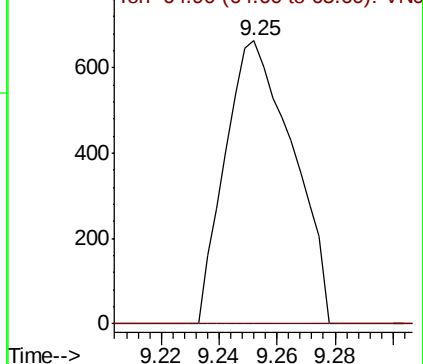
63 100

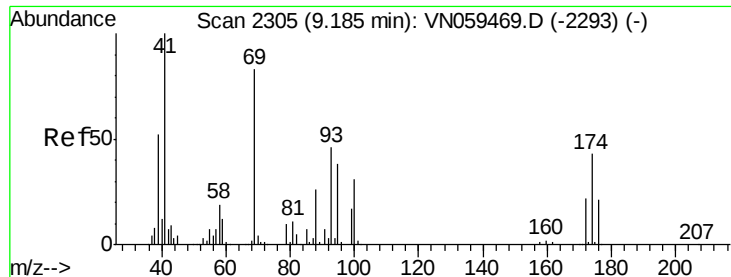
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN059469.D (-2257) (-)

Ion 64.90 (64.60 to 65.60): VN059469.D (-2257) (-)

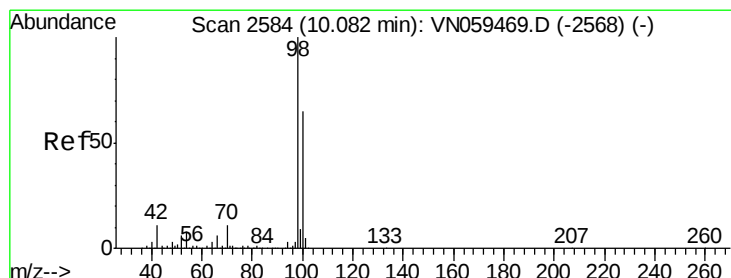
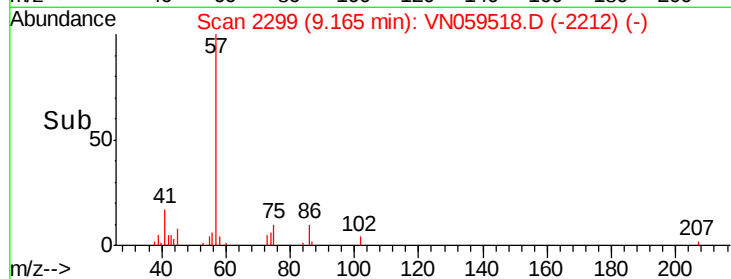
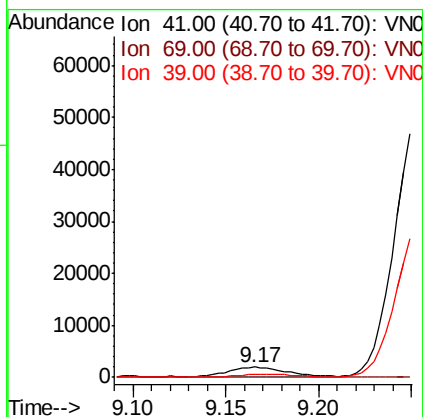
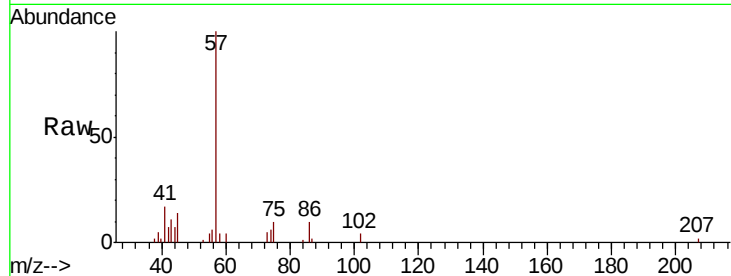




#48
Methvl methacrylate
Concen: 1.550 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

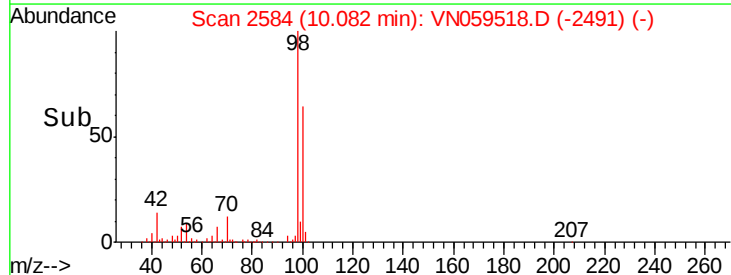
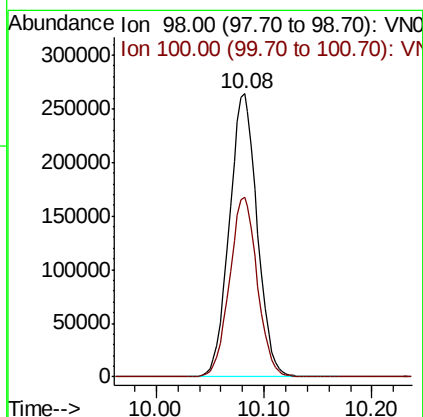
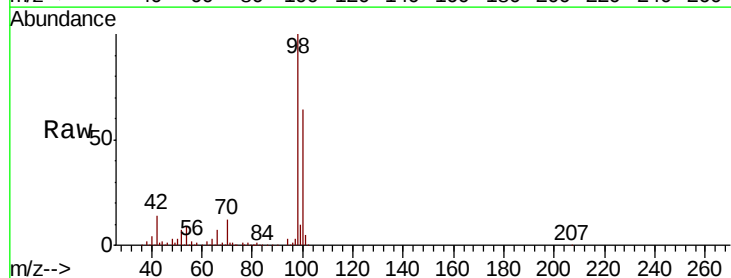
Instrument :
MSVOA_N
ClientSampled :

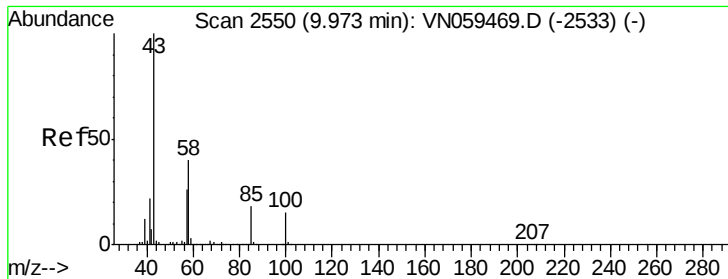
Tot Ion: 41 Resp: 4519
Ion Ratio Lower Upper
41 100
69 0.0 68.6 103.0#
39 0.0 43.2 64.8#



#50
Toluene-d8
Concen: 51.822 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Tgt Ion: 98 Resp: 475698
Ion Ratio Lower Upper
98 100
100 63.2 52.1 78.1

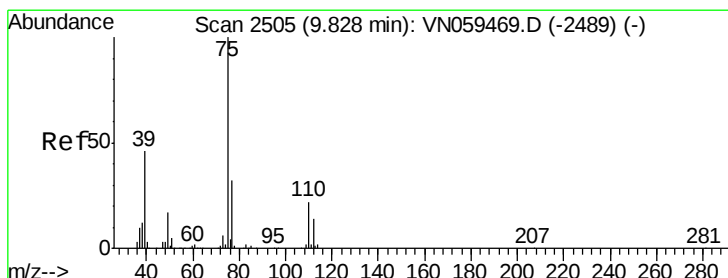
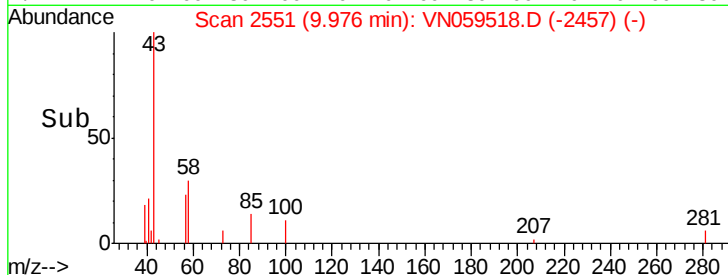
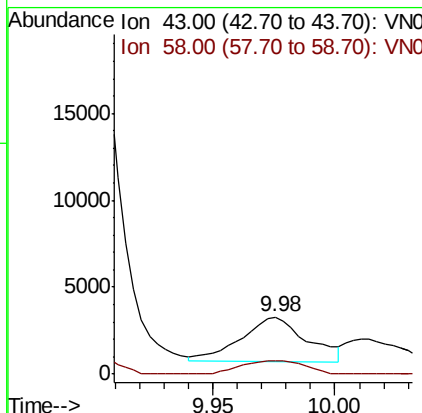
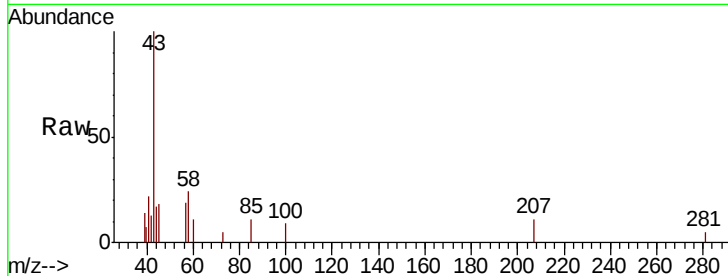




#51
 4-Methyl-2-Pentanone
 Concen: 1.231 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VN059518.D
 Acq: 6 Dec 2019 16:21

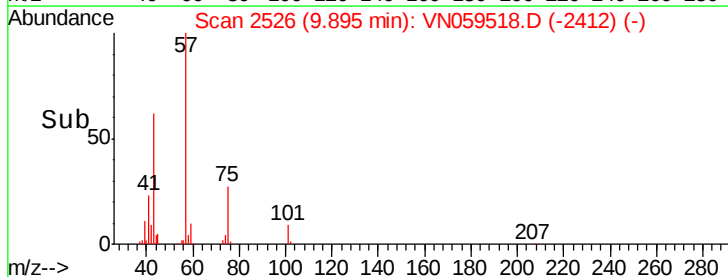
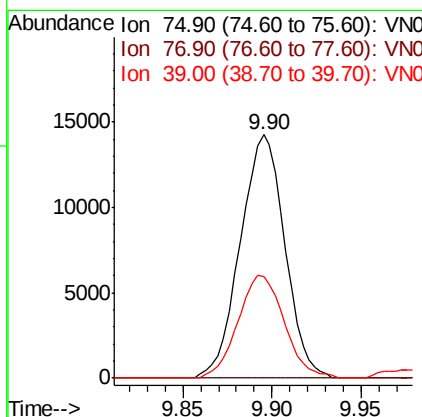
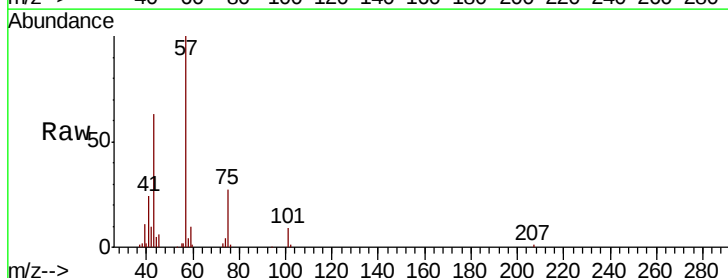
Instrument :
 MSVOA_N
 ClientSampled :

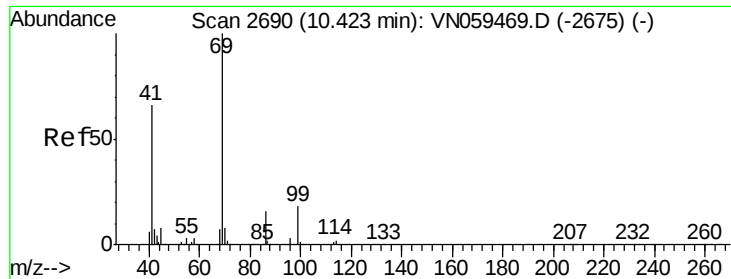
Tot Ion: 43 Resp: 4723
 Ion Ratio Lower Upper
 43 100
 58 29.1 32.1 48.1#



#54
 cis-1,3-Dichloropropene
 Concen: 5.245 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.07 min
 Lab File: VN059518.D
 Acq: 6 Dec 2019 16:21

Tgt Ion: 75 Resp: 24853
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 41.7 36.6 54.8





#56

Ethyl methacrylate

Concen: 1.684 ug/l

RT: 10.53 min Scan# 2725

Delta R.T. 0.11 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

Instrument :

MSVOA_N

ClientSampleId :

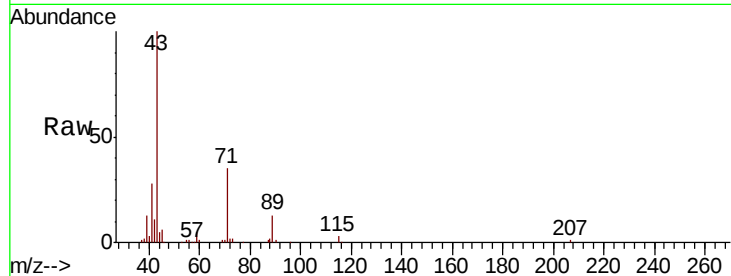
Tot Ion: 69 Resp: 1052

Ion Ratio Lower Upper

69 100

41 5280.1 52.7 79.1#

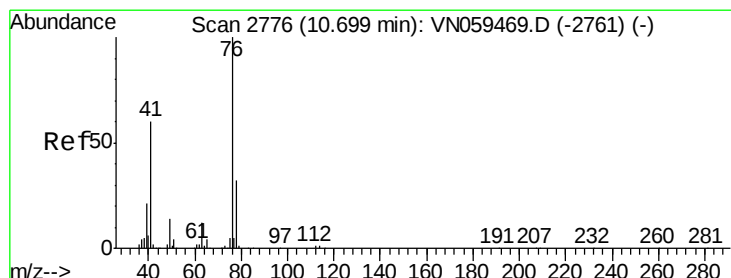
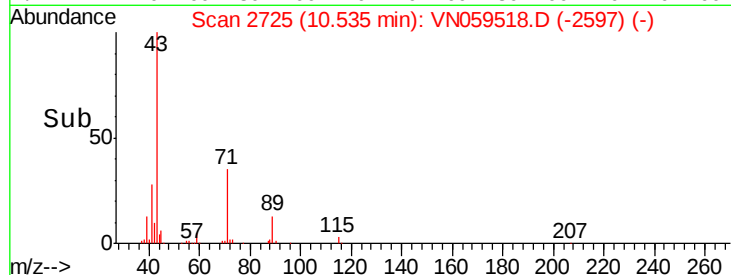
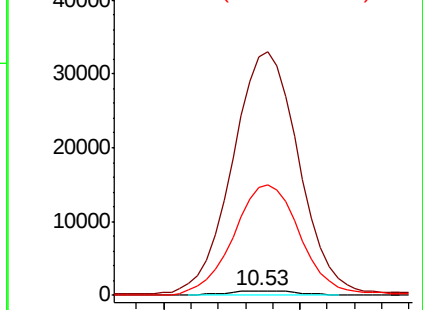
39 2438.7 25.0 37.6#



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: 0.763 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN059518.D

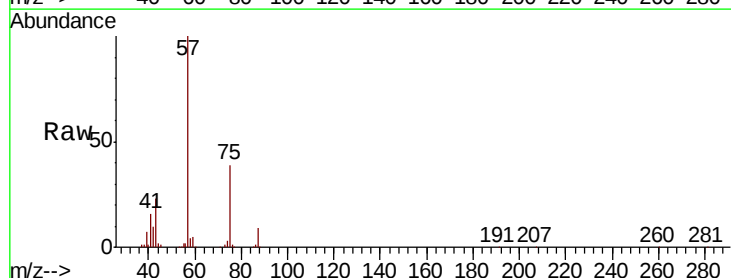
Acq: 6 Dec 2019 16:21

Tgt Ion: 76 Resp: 3585

Ion Ratio Lower Upper

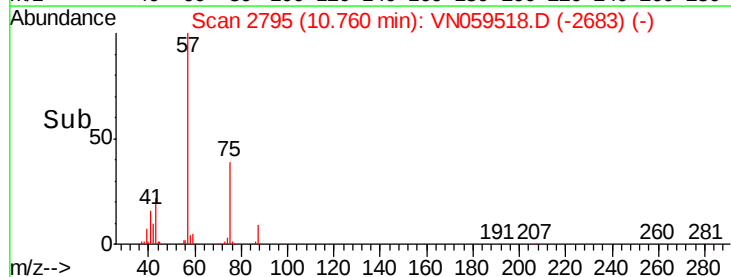
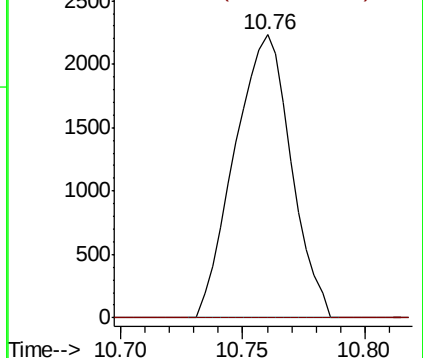
76 100

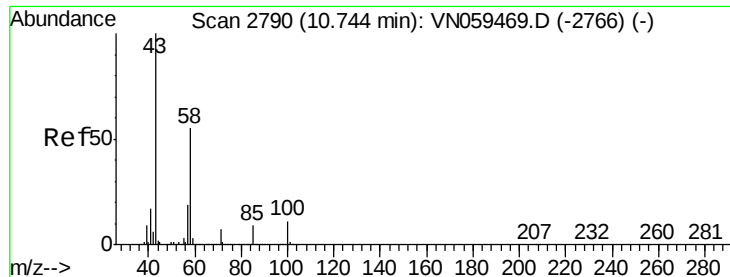
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

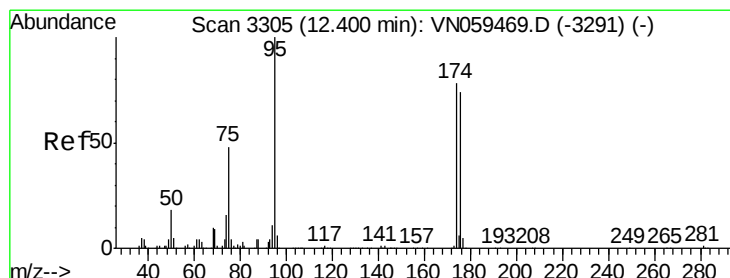
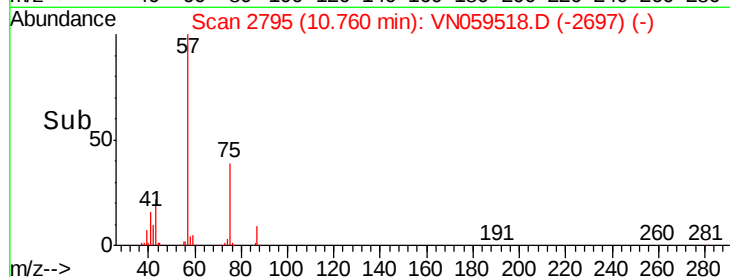
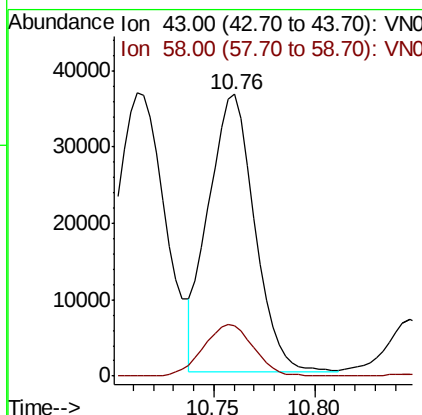
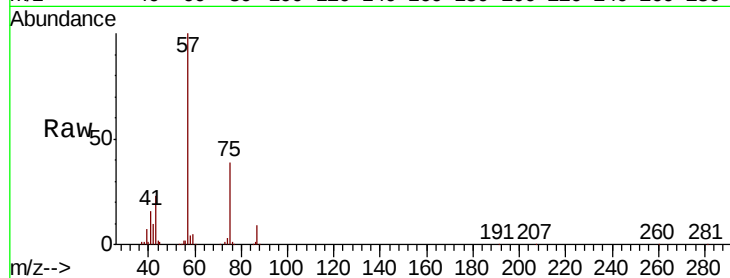




#59
2-Hexanone
Concen: 19.915 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.02 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

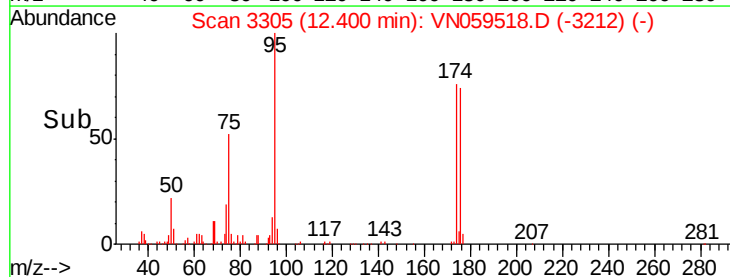
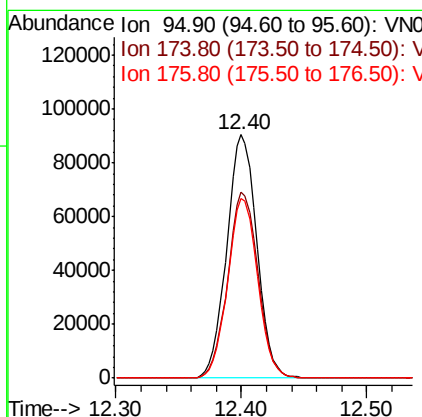
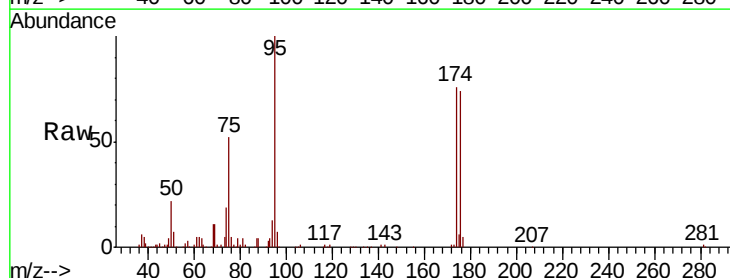
Instrument :
MSVOA_N
ClientSampleId :

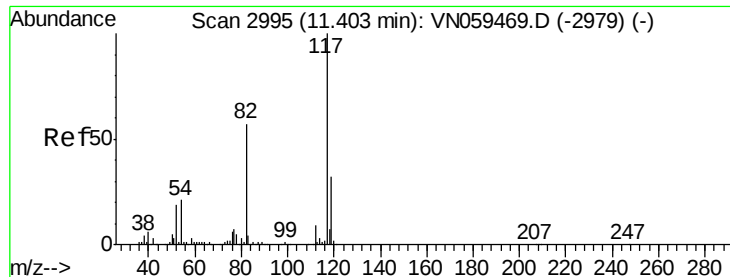
Tot Ion: 43 Resp: 57493
Ion Ratio Lower Upper
43 100
58 20.2 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 46.963 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Tgt Ion: 95 Resp: 150549
Ion Ratio Lower Upper
95 100
174 77.0 0.0 157.0
176 73.8 0.0 152.4

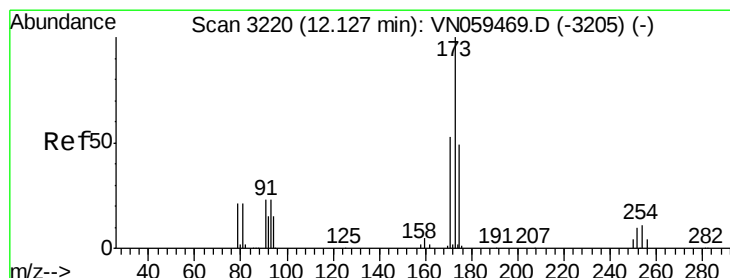
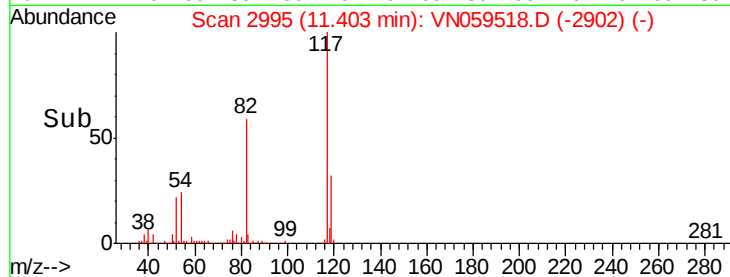
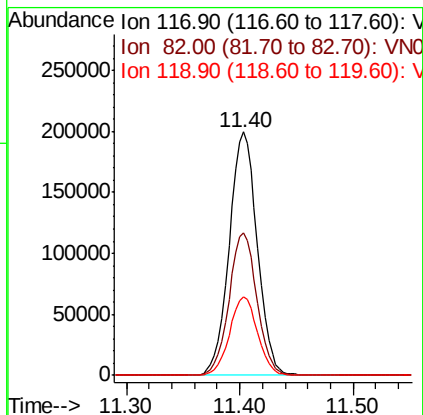
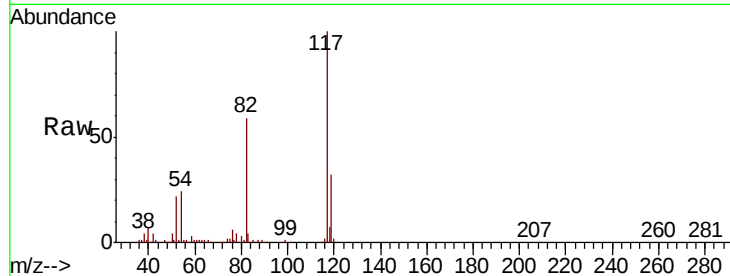




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

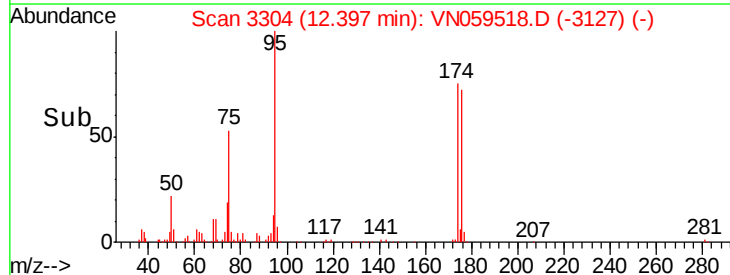
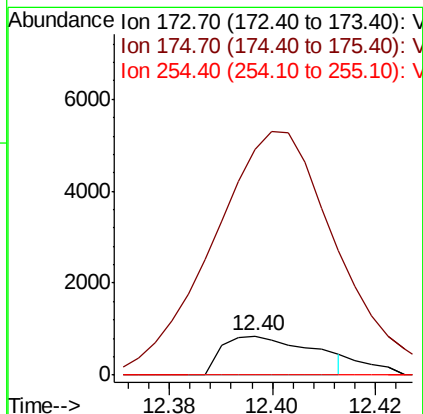
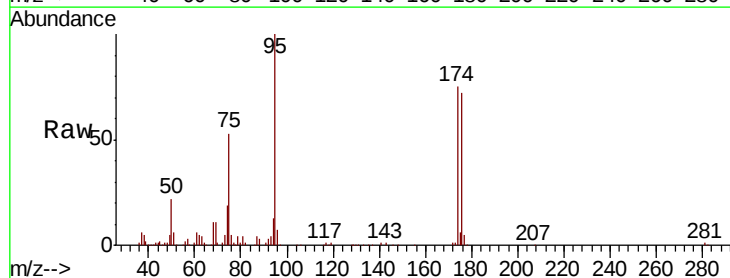
Instrument :
MSVOA_N
ClientSampled :

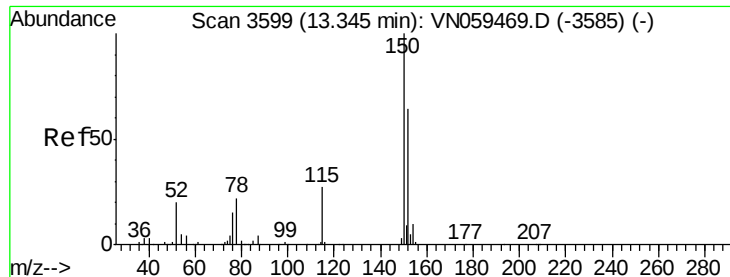
Tot Ion:117 Resp: 343086
Ion Ratio Lower Upper
117 100
82 58.5 45.8 68.8
119 32.2 25.4 38.0



#71
Bromoform
Concen: 0.489 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Tgt Ion:173 Resp: 1027
Ion Ratio Lower Upper
173 100
175 764.9 24.3 73.0#
254 0.0 0.0 0.0



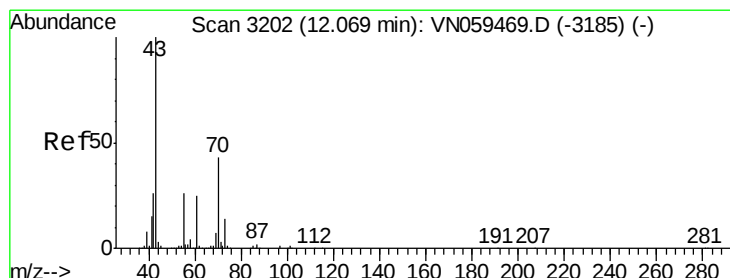
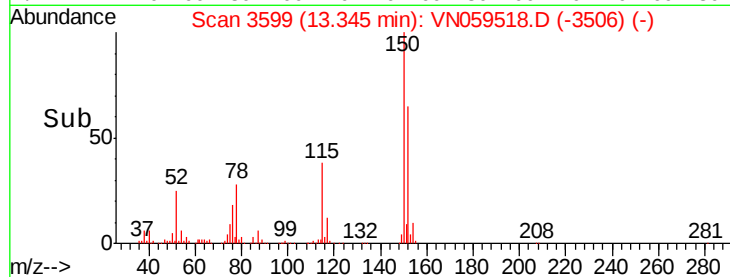
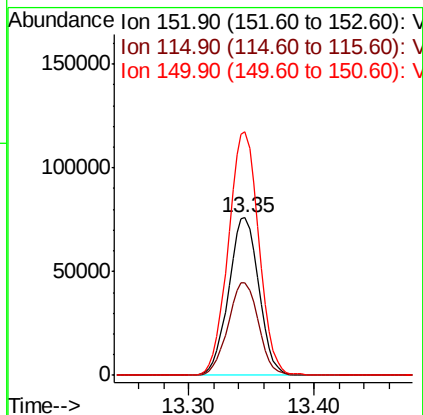
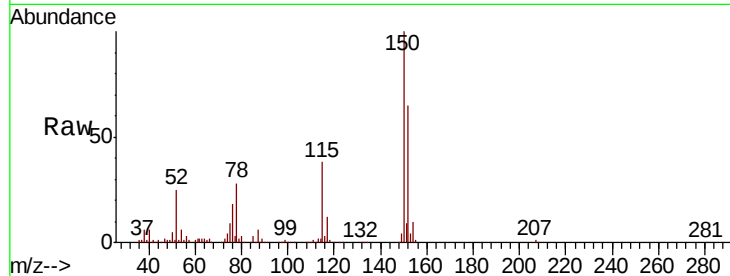


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Instrument :
MSVOA_N
ClientSampled :

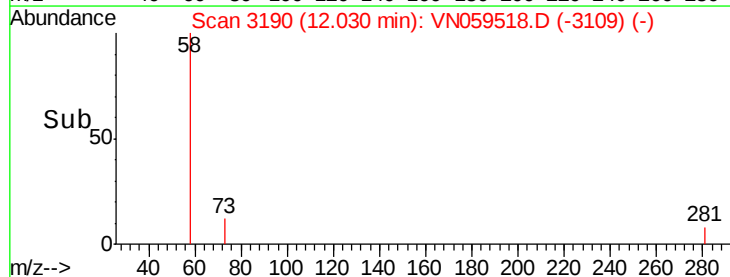
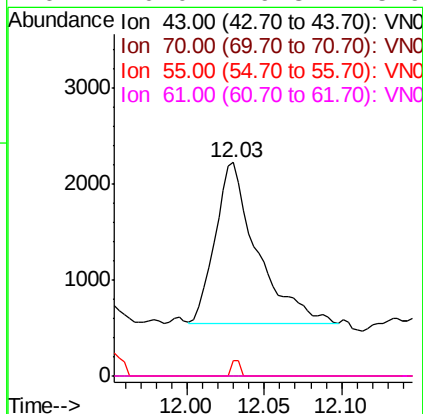
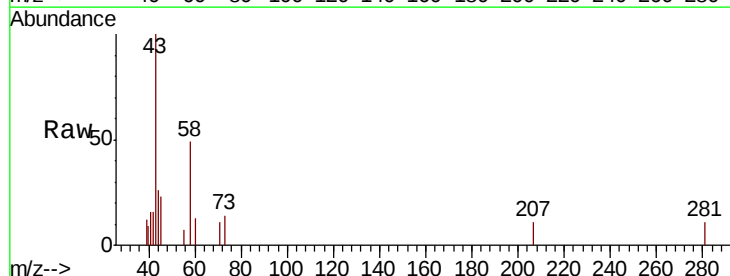
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.4	29.2	87.6
150	155.6	0.0	352.8

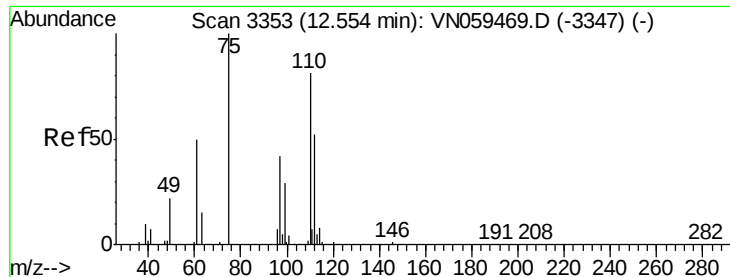


#74

N-ethyl acetate
Concen: 0.769 ug/l
RT: 12.03 min Scan# 3190
Delta R.T. -0.04 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.2	51.2#
55	2.0	20.6	31.0#
61	0.0	19.3	28.9#





#76

1,2,3-Trichloropropane

Concen: 25.258 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

Instrument :

MSVOA_N

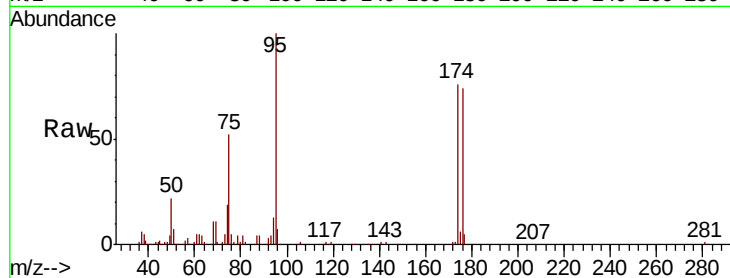
ClientSampleId :

Tot Ion: 75 Resp: 79757

Ion Ratio Lower Upper

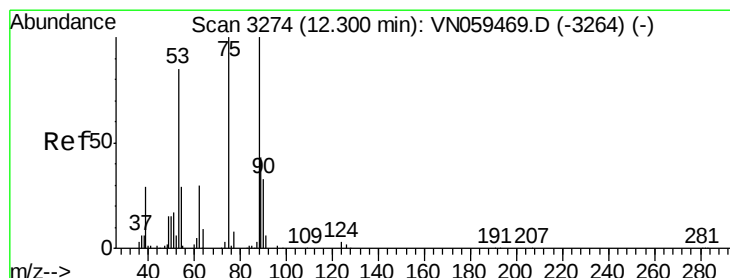
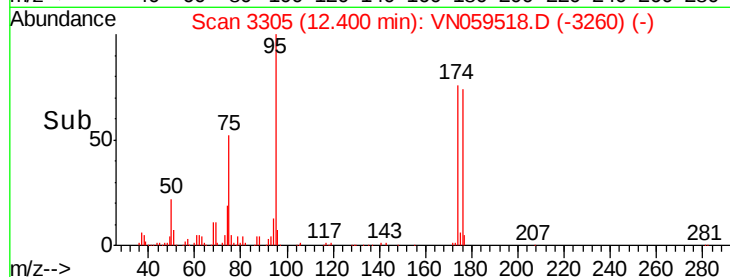
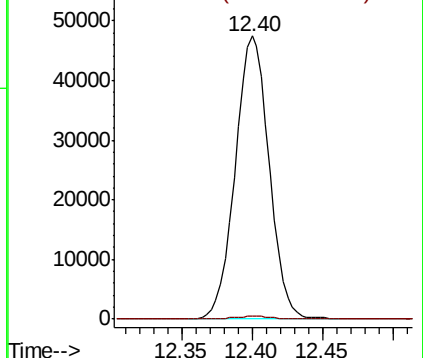
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.287 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059518.D

Acq: 6 Dec 2019 16:21

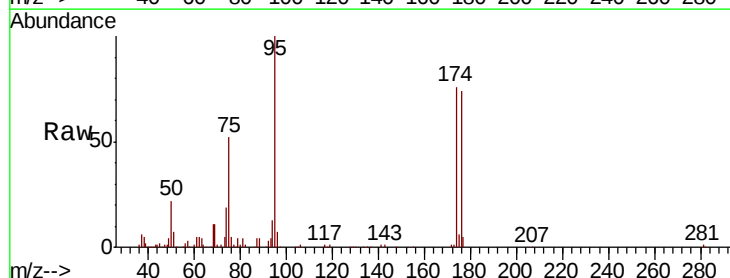
Tgt Ion: 75 Resp: 79757

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

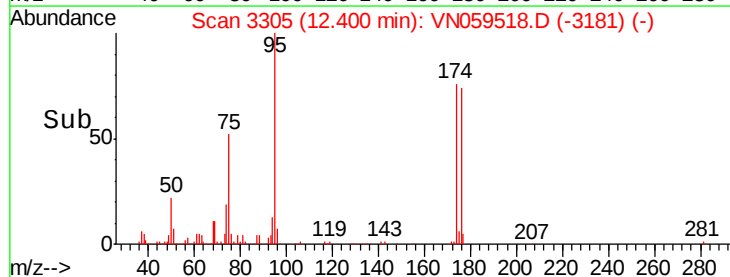
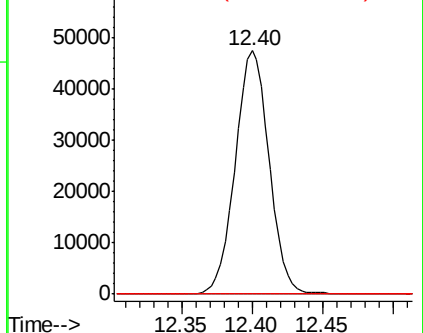
89 0.0 35.2 52.8#

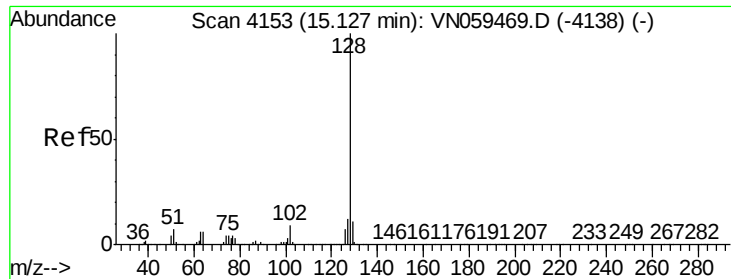


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95
Naphthalene
Concen: 2.446 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN059518.D
Acq: 6 Dec 2019 16:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.8	13.2#

