

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058315.D
 Acq On : 24 Sep 2019 00:24
 Operator : JC/SP
 Sample : K5002-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:40:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	481023	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	792269	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	675025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	270102	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	358409	53.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.00%	
35) Dibromofluoromethane	7.58	113	248951	51.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.38%	
50) Toluene-d8	10.09	98	1002881	53.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.88%	
62) 4-Bromofluorobenzene	12.41	95	310639	44.56	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.12%	

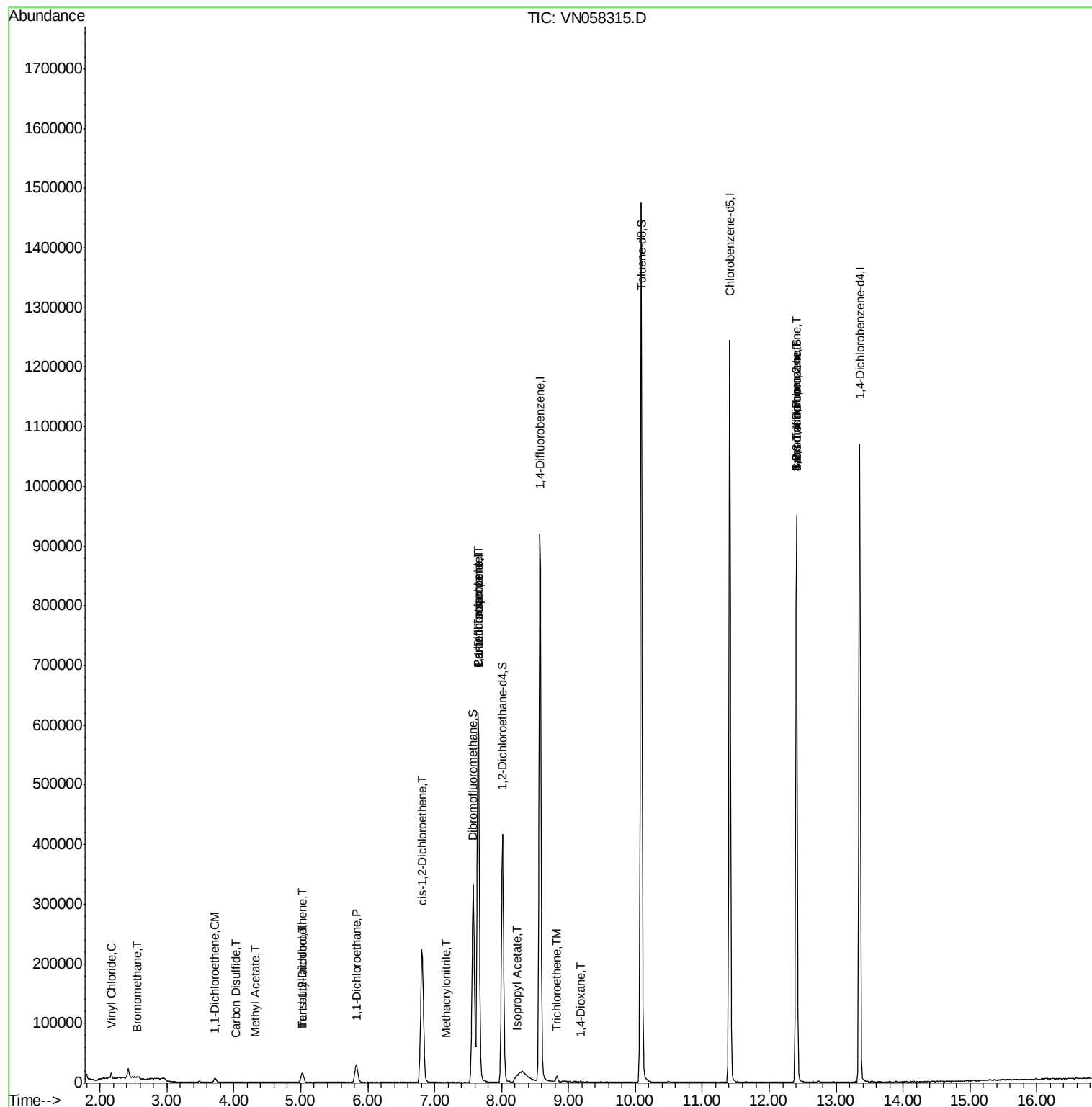
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.05	50	431	Below Cal	#	42
4) Vinyl Chloride	2.17	62	7206	1.281	ug/l	98
5) Bromomethane	2.56	94	556	1.033	ug/l #	71
6) Chloroethane	2.70	64	33	Below Cal	#	44
11) Tert butyl alcohol	5.03	59	235	0.295	ug/l #	60
12) 1,1-Dichloroethene	3.72	96	3545	0.851	ug/l	96
17) Carbon Disulfide	4.02	76	186	0.315	ug/l #	74
18) Methyl Acetate	4.32	43	1554	0.260	ug/l #	53
21) trans-1,2-Dichloroethene	5.03	96	9543	2.585	ug/l #	76
24) 1,1-Dichloroethane	5.83	63	47170	5.468	ug/l	97
27) cis-1,2-Dichloroethene	6.82	96	142041	29.119	ug/l	89
36) 1,1-Dichloropropene	7.65	75	42437	7.428	ug/l #	50
38) Carbon Tetrachloride	7.65	117	50338	8.765	ug/l #	14
41) Methacrylonitrile	7.17	41	30	0.921	ug/l #	100
43) Isopropyl Acetate	8.23	43	11062	0.999	ug/l #	57
44) Trichloroethene	8.83	130	3262	0.764	ug/l	85
49) 1,4-Dioxane	9.18	88	154	1.866	ug/l #	1
71) Bromoform	12.40	173	525	3.748	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	173711	35.935	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	173711	100.370	ug/l #	5

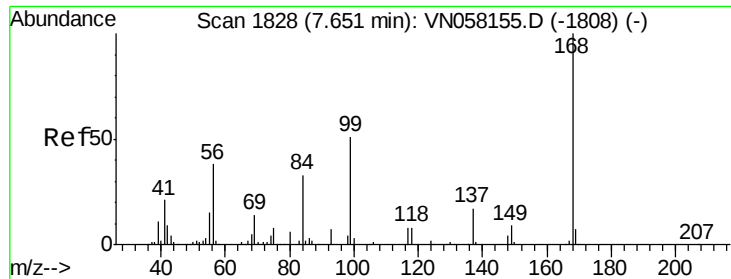
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

Instrument :

MSVOA_N

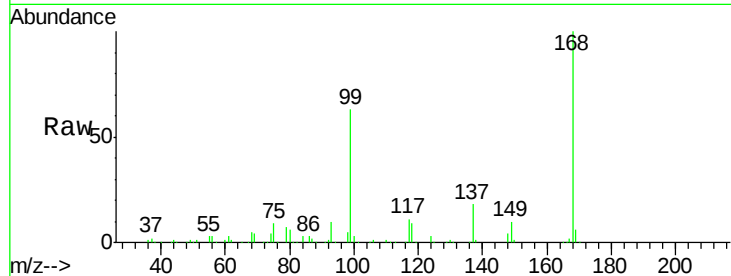
ClientSampled :

Tot Ion:168 Resp: 481023

Ion Ratio Lower Upper

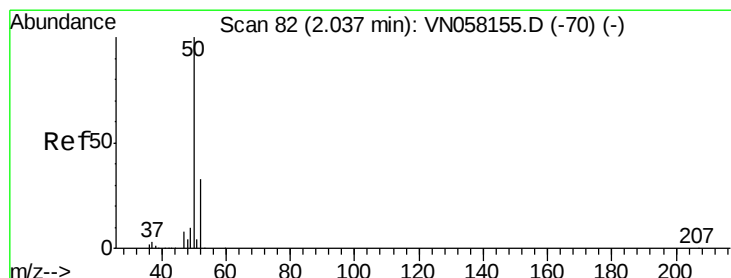
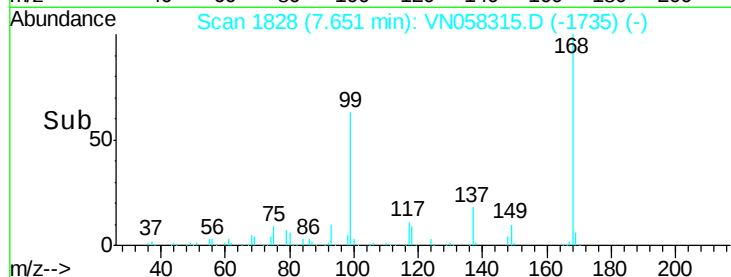
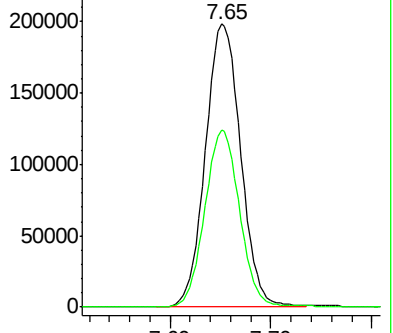
168 100

99 62.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.05 min Scan# 85

Delta R.T. 0.01 min

Lab File: VN058315.D

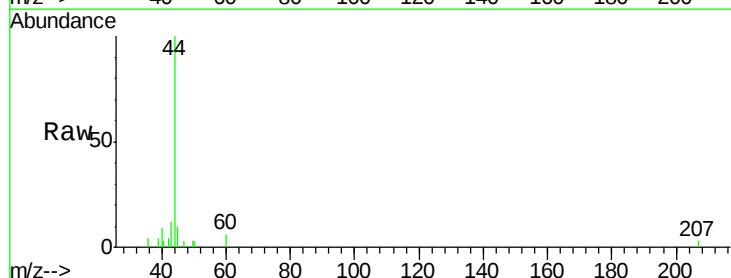
Acq: 24 Sep 2019 00:24

Tgt Ion: 50 Resp: 431

Ion Ratio Lower Upper

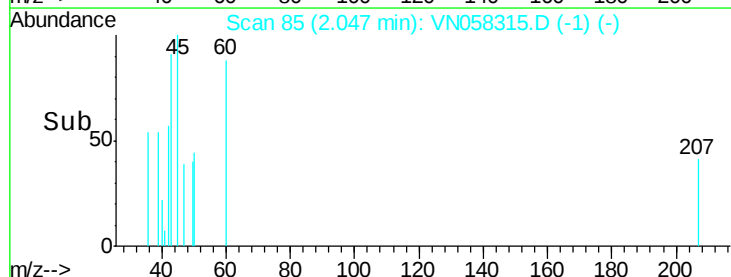
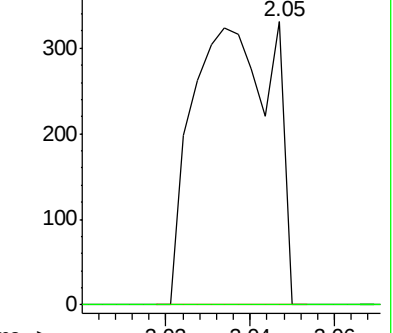
50 100

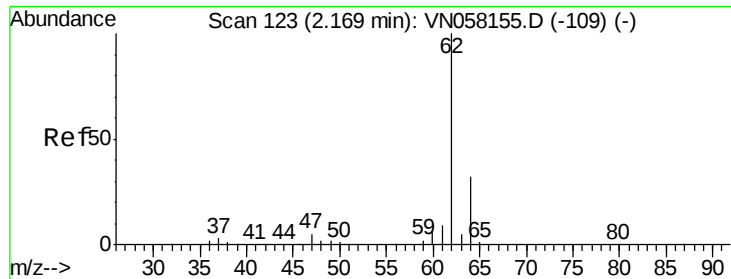
52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

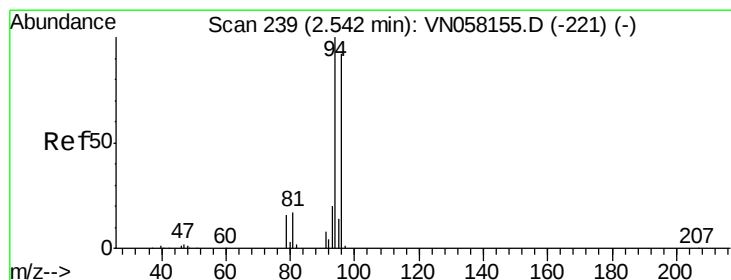
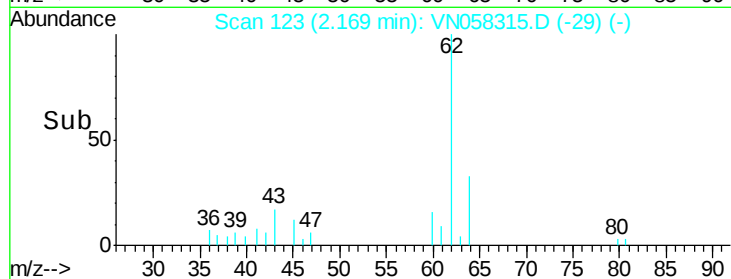
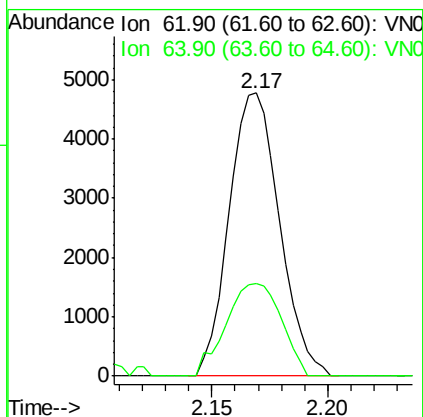
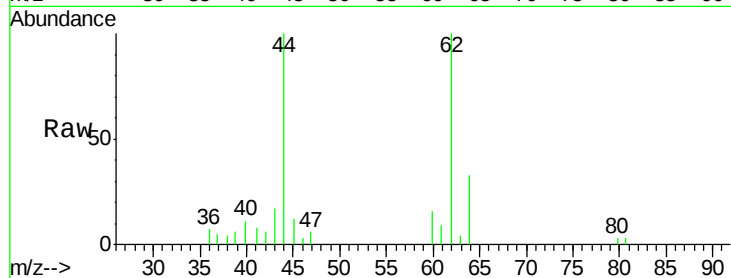




#4
 Vinyl Chloride
 Concen: 1.281 ug/l
 RT: 2.17 min Scan# 123
 Delta R.T. 0.00 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

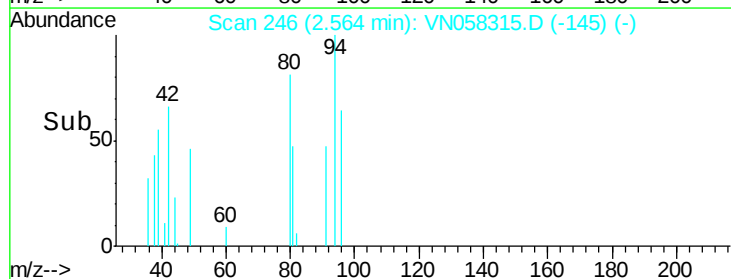
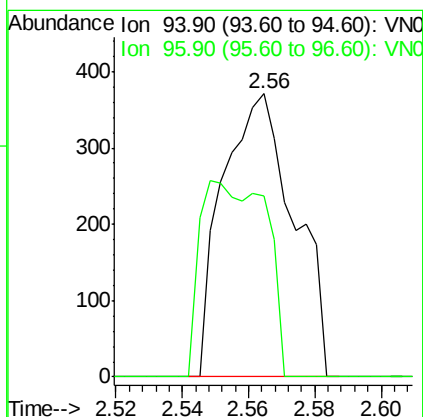
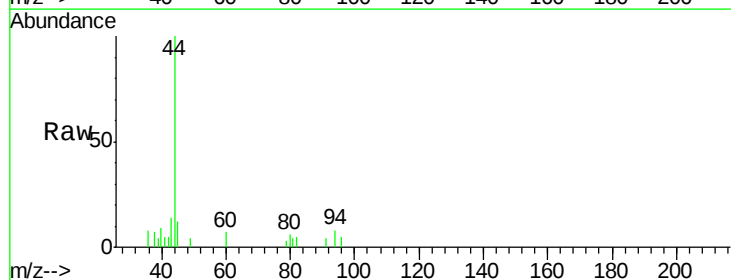
Instrument :
 MSVOA_N
 ClientSampled :

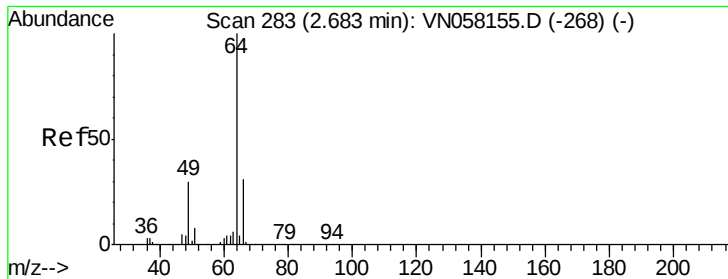
Tot Ion: 62 Resp: 7206
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.4 38.2



#5
 Bromomethane
 Concen: 1.033 ug/l
 RT: 2.56 min Scan# 246
 Delta R.T. 0.02 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

Tgt Ion: 94 Resp: 556
 Ion Ratio Lower Upper
 94 100
 96 63.9 73.3 109.9#





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 287

Delta R.T. 0.01 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

Instrument :

MSVOA_N

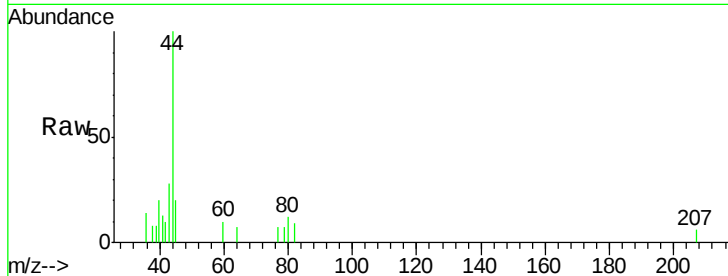
ClientSampled :

Tot Ion: 64 Resp: 33

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.70

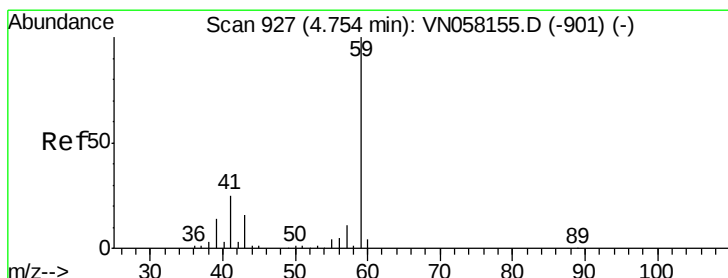
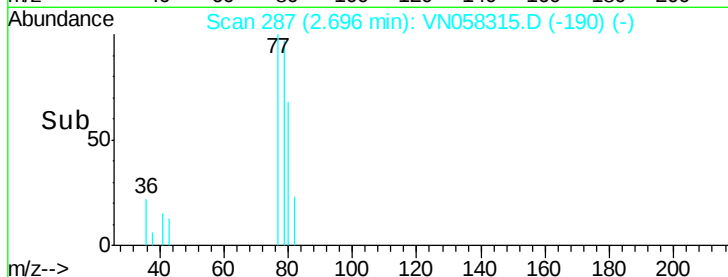
150

100

50

0

Time--> 2.69 2.69 2.69 2.70 2.71



#11

Tert butyl alcohol

Concen: 0.295 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. 0.28 min

Lab File: VN058315.D

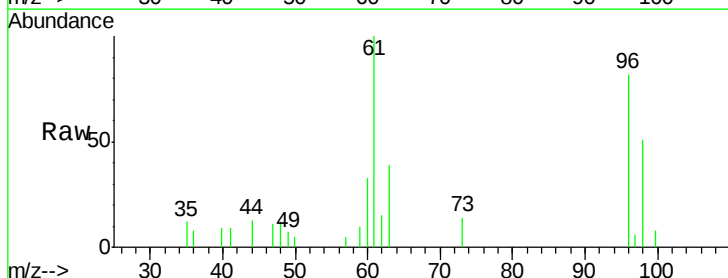
Acq: 24 Sep 2019 00:24

Tgt Ion: 59 Resp: 235

Ion Ratio Lower Upper

59 100

57 26.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

5.03

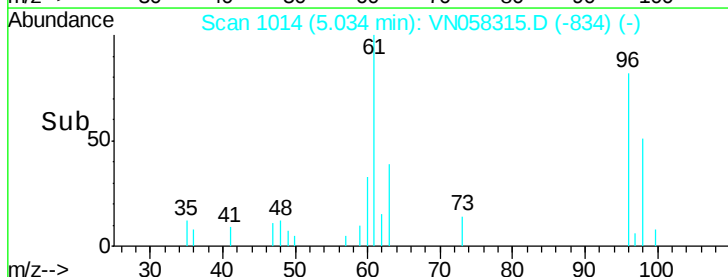
300

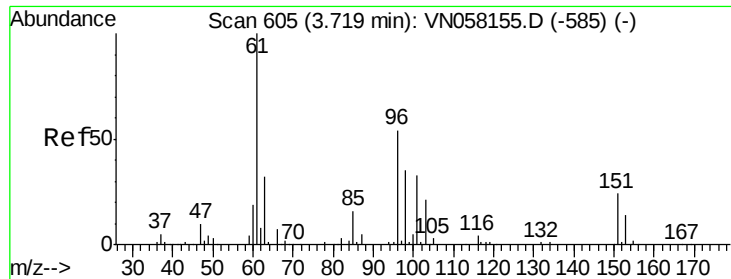
200

100

0

Time--> 5.02 5.03 5.04





#12

1,1-Dichloroethene

Concen: 0.851 ug/l

RT: 3.72 min Scan# 604

Delta R.T. -0.00 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

Instrument :
MSVOA_N
ClientSampled :

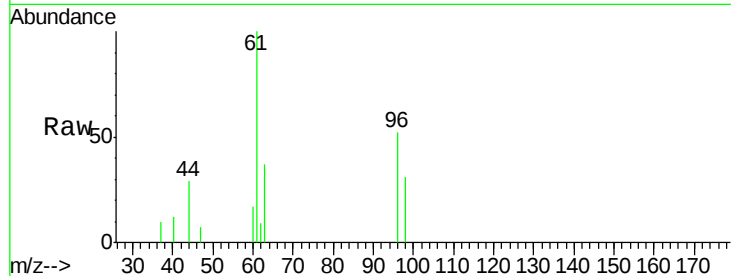
Tot Ion: 96 Resp: 3545

Ion Ratio Lower Upper

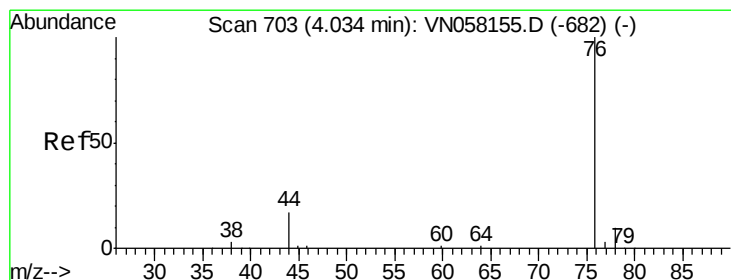
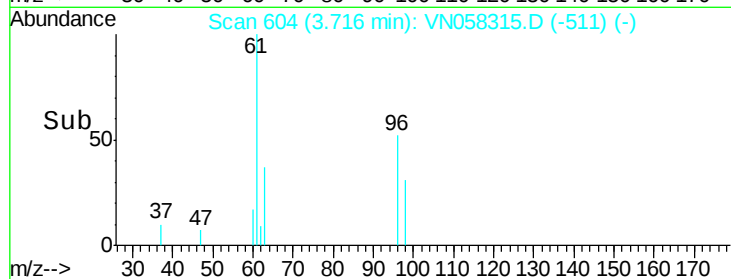
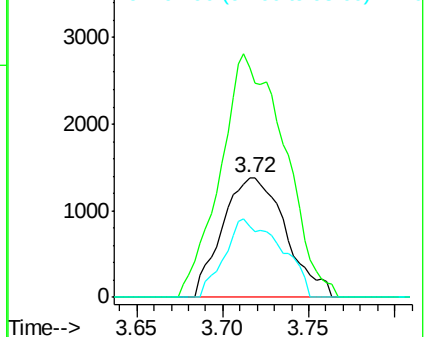
96 100

61 191.3 149.5 224.3

98 59.1 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#17

Carbon Disulfide

Concen: 0.315 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058315.D

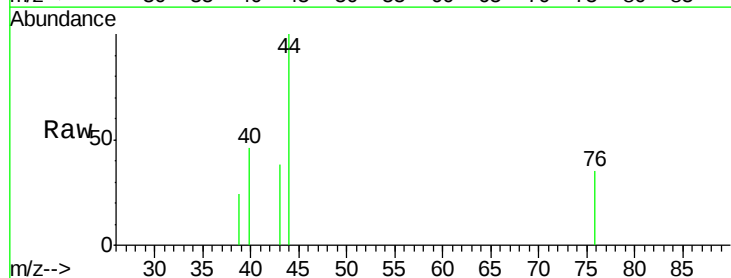
Acq: 24 Sep 2019 00:24

Tgt Ion: 76 Resp: 186

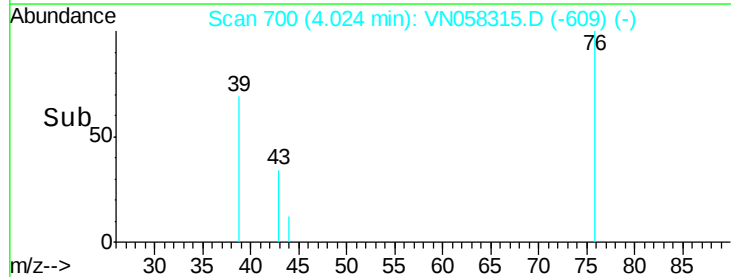
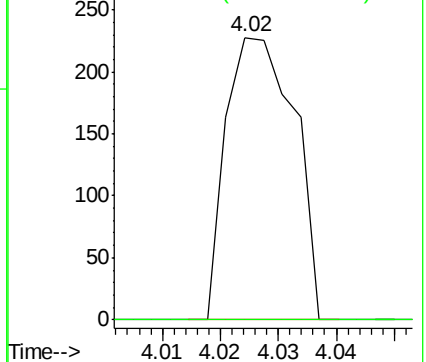
Ion Ratio Lower Upper

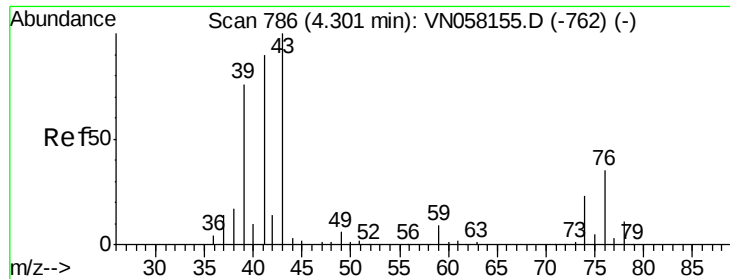
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC
Ion 77.90 (77.60 to 78.60): VNC

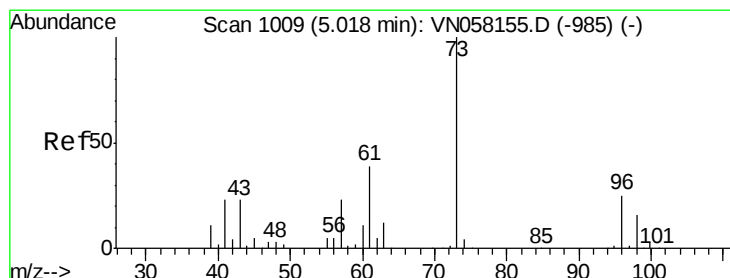
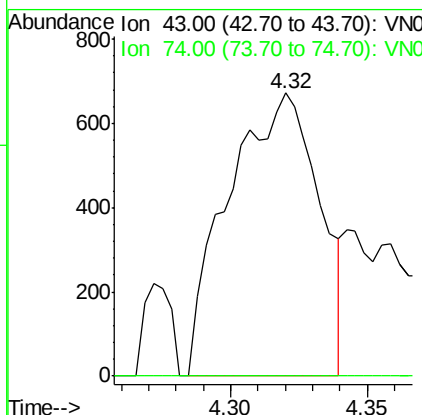
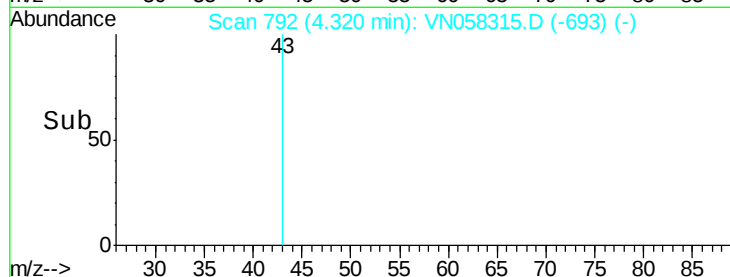
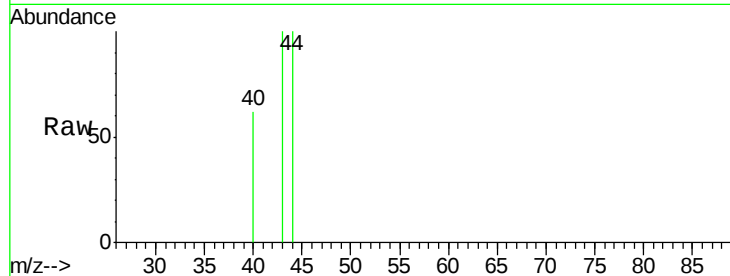




#18
Methyl Acetate
Concen: 0.260 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN058315.D
Acq: 24 Sep 2019 00:24

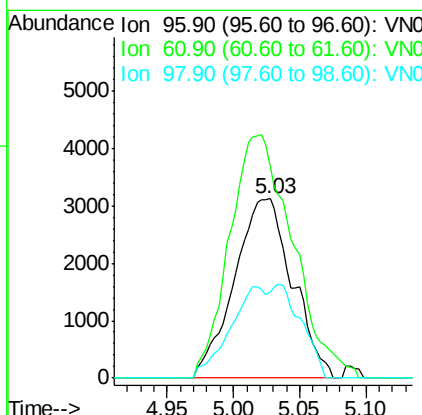
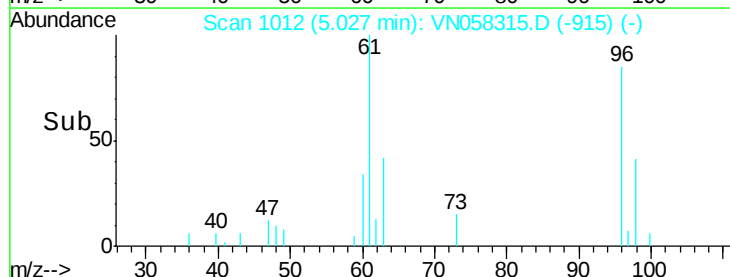
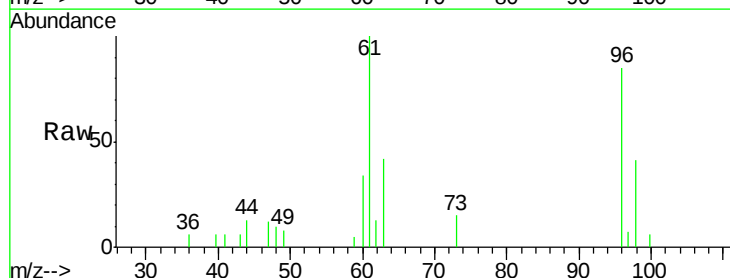
Instrument :
MSVOA_N
ClientSampled :

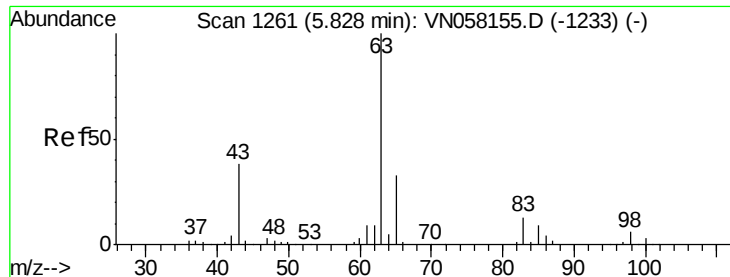
Tot Ion: 43 Resp: 1554
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#21
trans-1,2-Dichloroethene
Concen: 2.585 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VN058315.D
Acq: 24 Sep 2019 00:24

Tgt Ion: 96 Resp: 9543
Ion Ratio Lower Upper
96 100
61 118.2 122.2 183.4#
98 48.2 49.9 74.9#

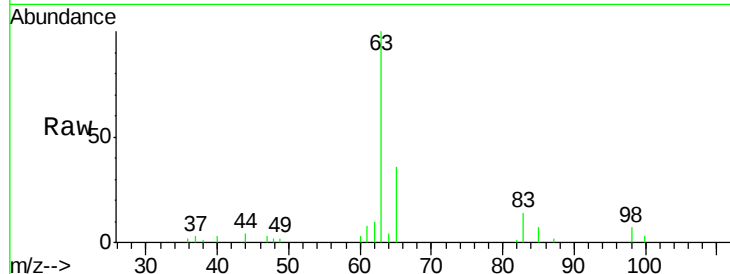




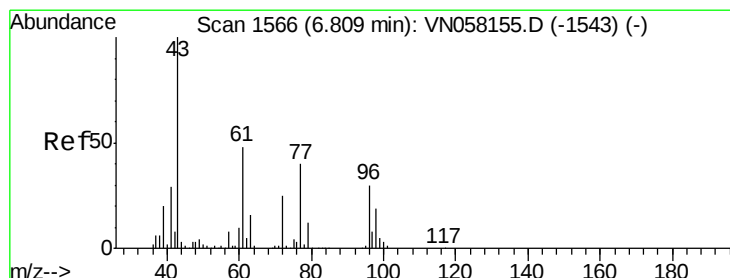
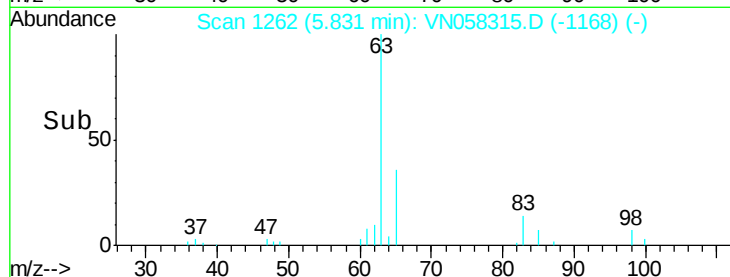
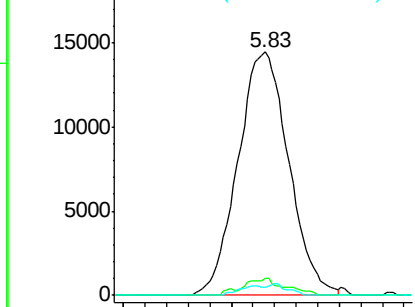
#24
 1,1-Dichloroethane
 Concen: 5.468 ug/l
 RT: 5.83 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 63 Resp: 47170
 Ion Ratio Lower Upper
 63 100
 98 6.8 2.9 8.6
 100 3.1 1.8 5.3

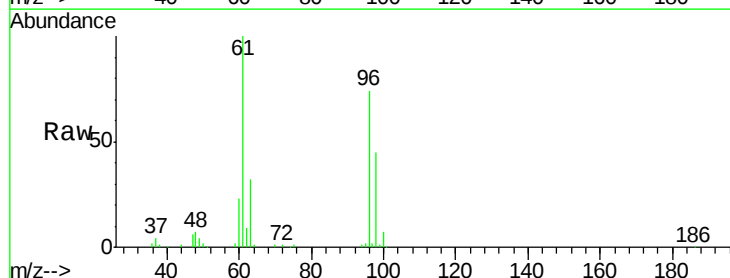


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

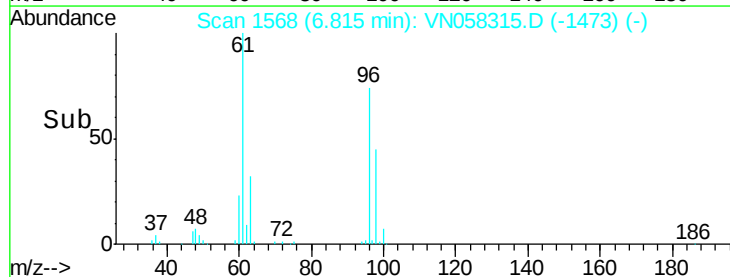
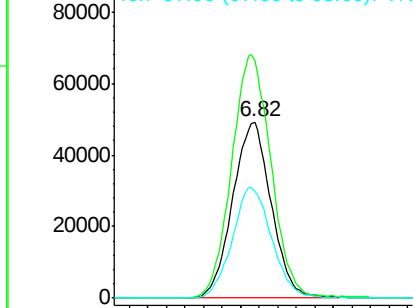


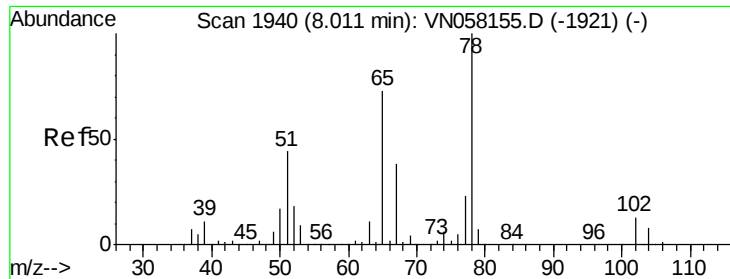
#27
 cis-1,2-Dichloroethene
 Concen: 29.119 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

Tgt Ion: 96 Resp: 142041
 Ion Ratio Lower Upper
 96 100
 61 140.5 0.0 319.0
 98 64.2 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

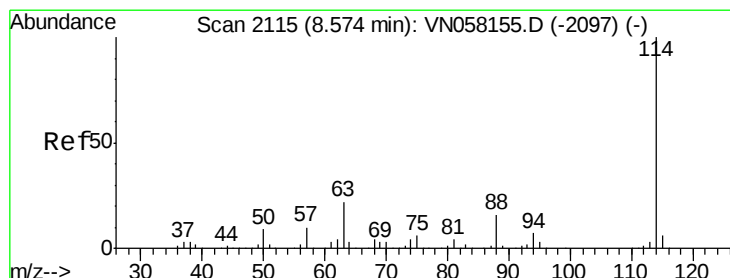
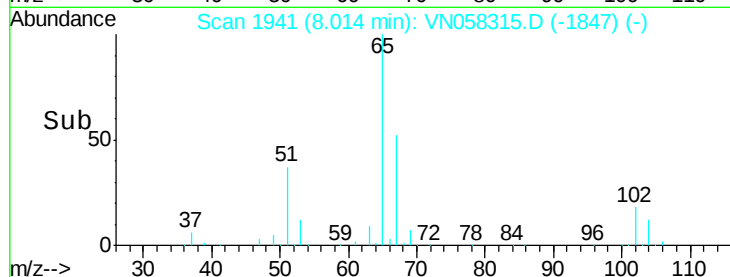
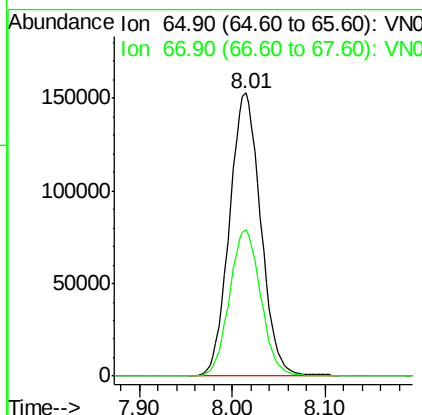
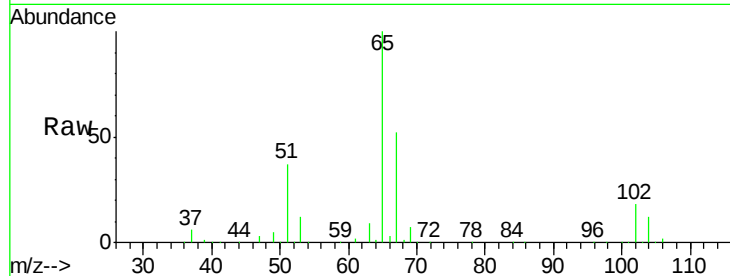




#33
 1,2-Dichloroethane-d4
 Concen: 53.496 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

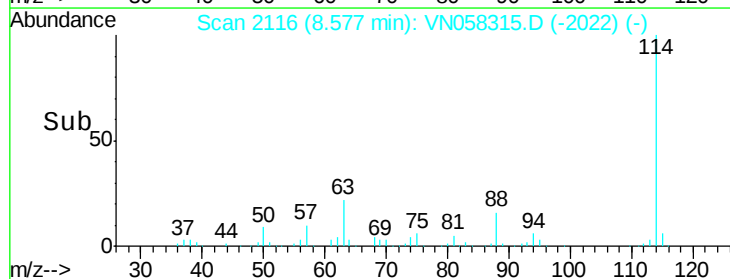
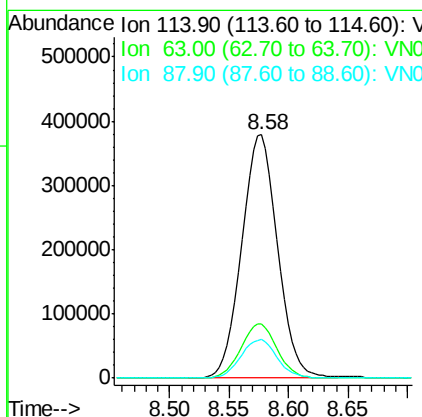
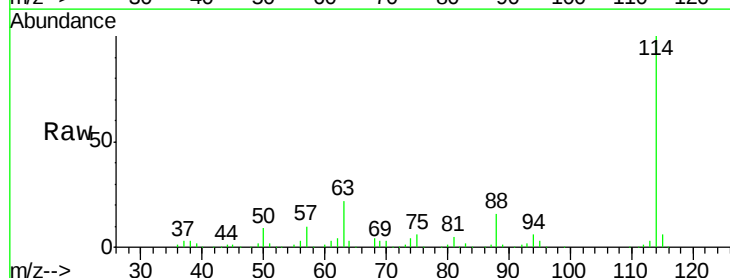
Instrument :
 MSVOA_N
 ClientSampleId :

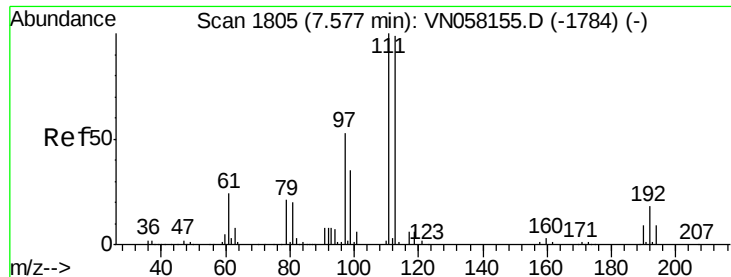
Tot Ion: 65 Resp: 358409
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

Tgt Ion: 114 Resp: 792269
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.2
 88 15.7 0.0 31.6

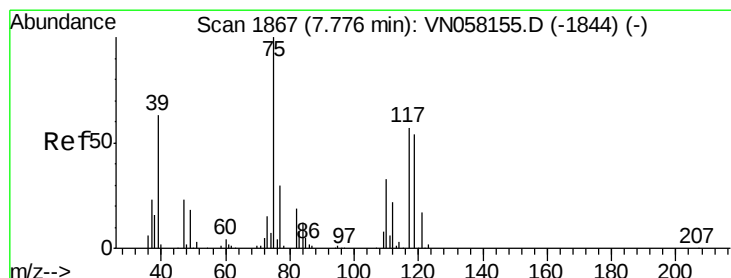
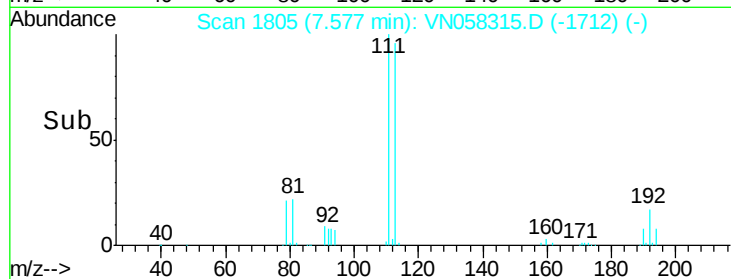
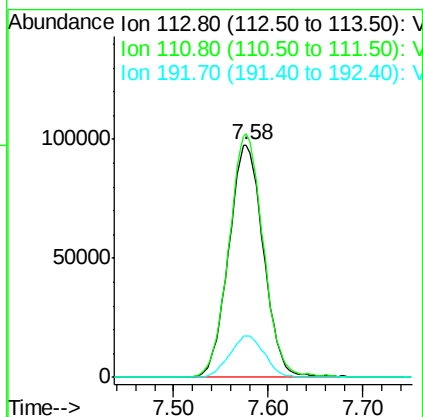
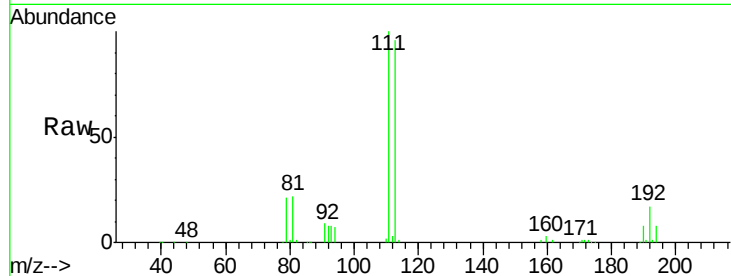




#35
 Dibromofluoromethane
 Concen: 51.689 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

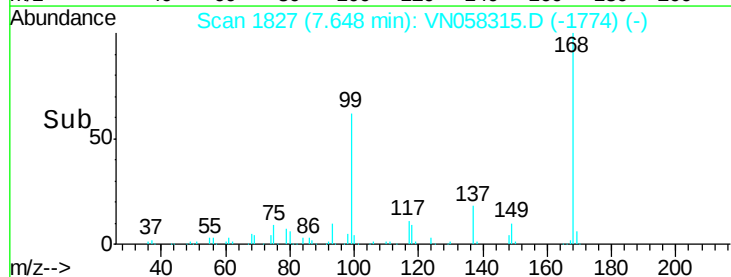
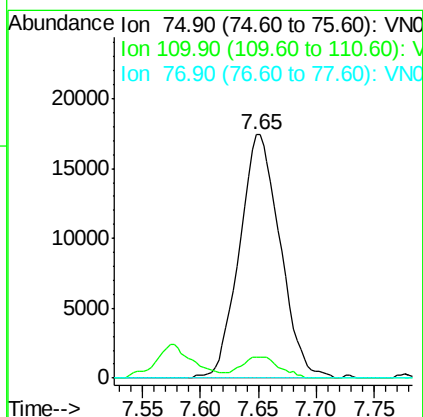
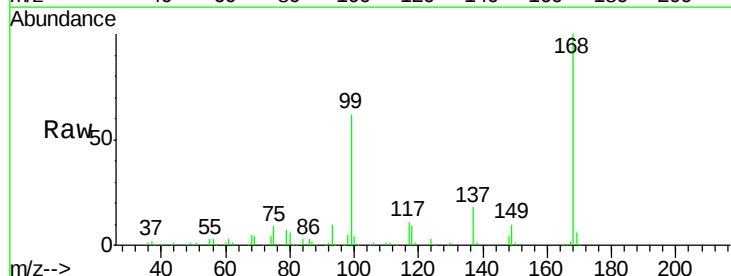
Instrument :
 MSVOA_N
 ClientSampleId :

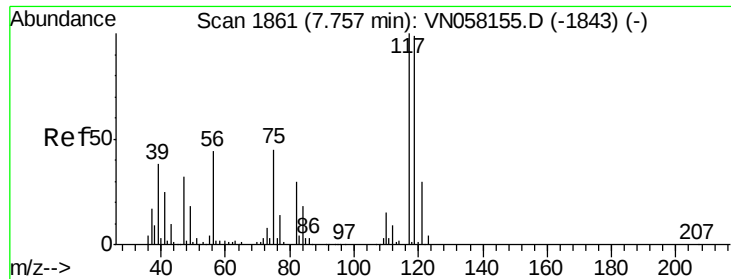
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.6
192	18.0	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.428 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.6	49.7#
77	0.0	24.3	36.5#

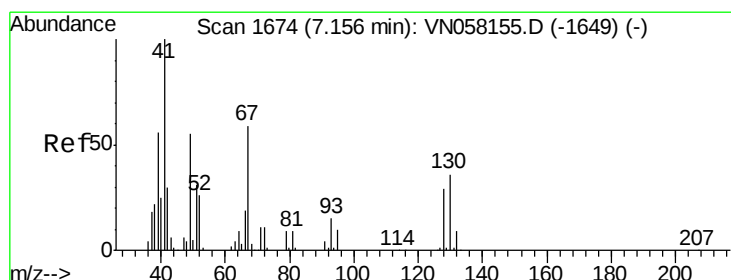
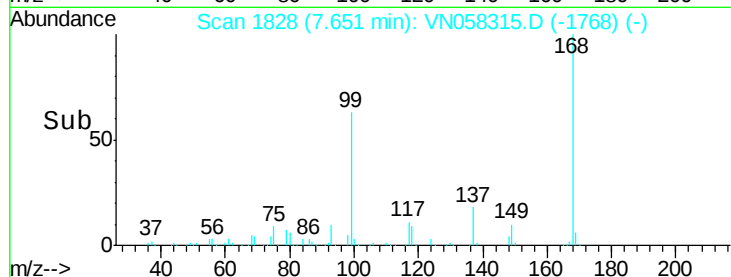
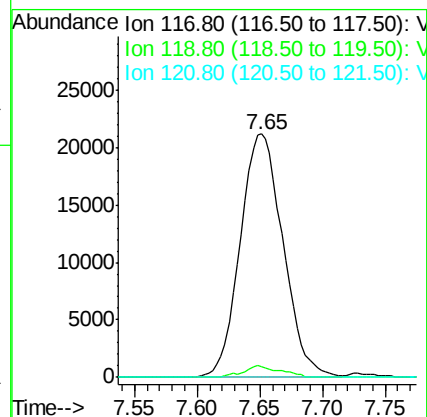
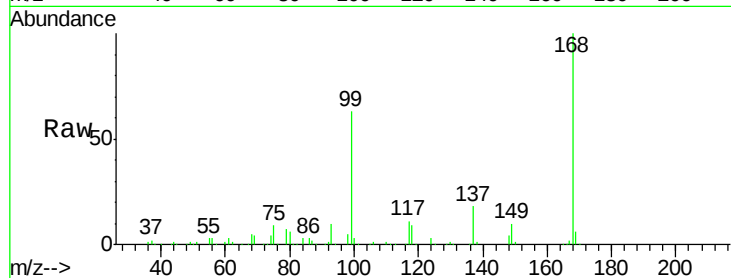




#38
Carbon Tetrachloride
Concen: 8.765 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058315.D
Acq: 24 Sep 2019 00:24

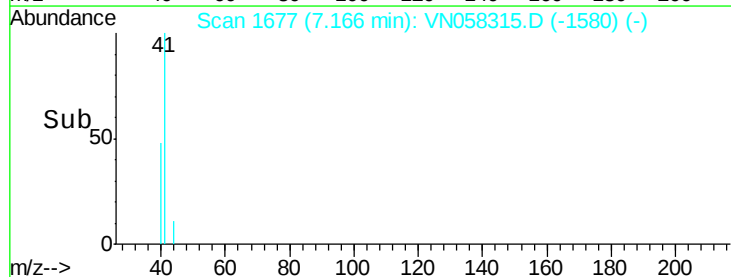
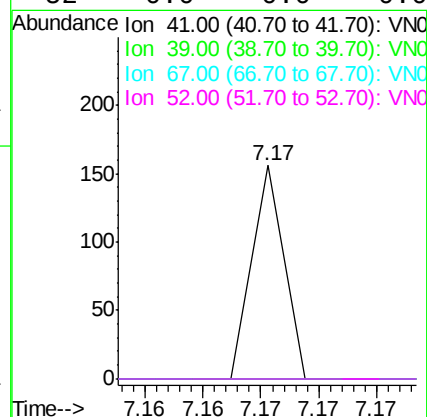
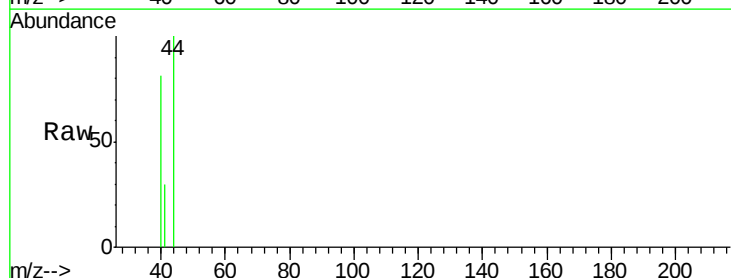
Instrument :
MSVOA_N
ClientSampled :

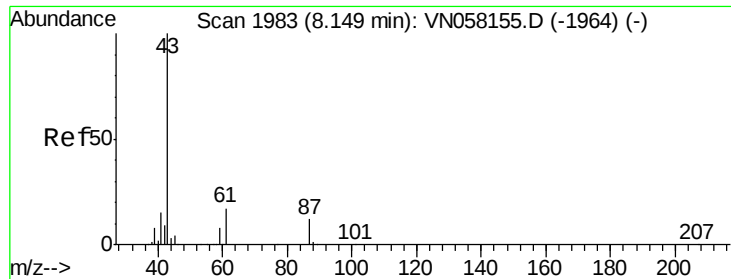
Tot Ion:117 Resp: 50338
Ion Ratio Lower Upper
117 100
119 4.4 78.6 117.8#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.01 min
Lab File: VN058315.D
Acq: 24 Sep 2019 00:24

Tgt Ion: 41 Resp: 30
Ion Ratio Lower Upper
41 100
39 96.7 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 0.999 ug/l

RT: 8.23 min Scan# 2007

Delta R.T. 0.08 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

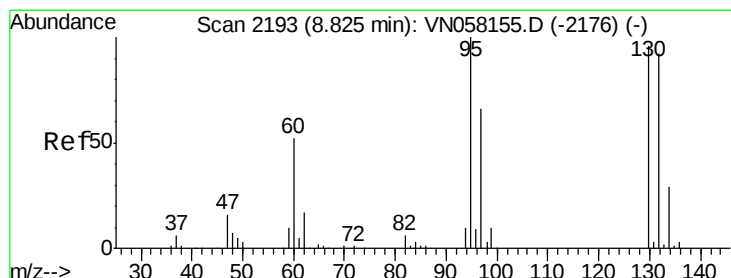
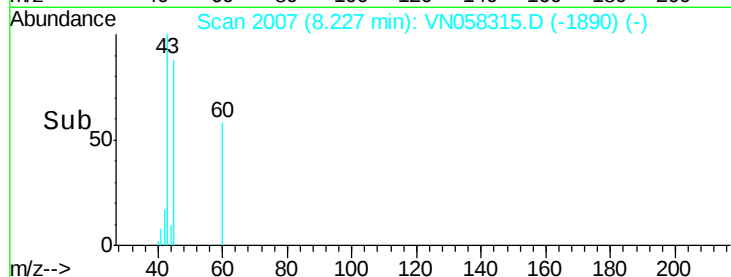
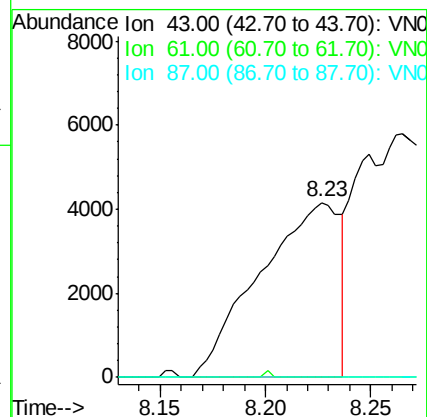
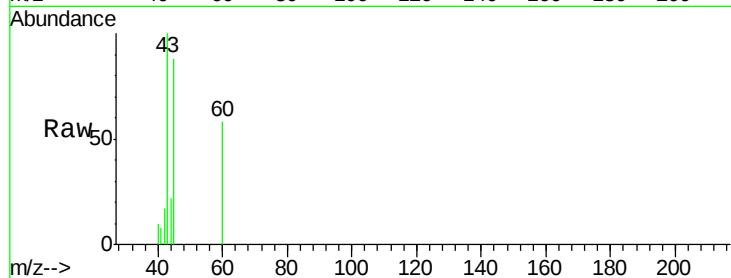
Tot Ion: 43 Resp: 11062

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#44

Trichloroethene

Concen: 0.764 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. 0.01 min

Lab File: VN058315.D

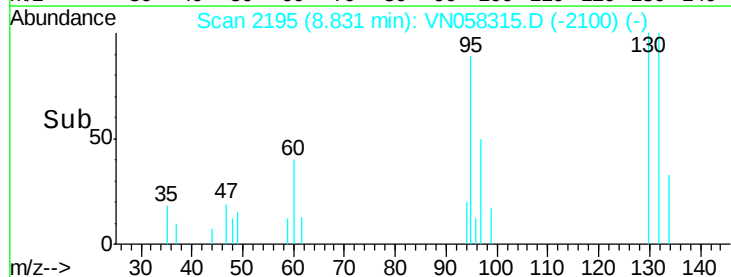
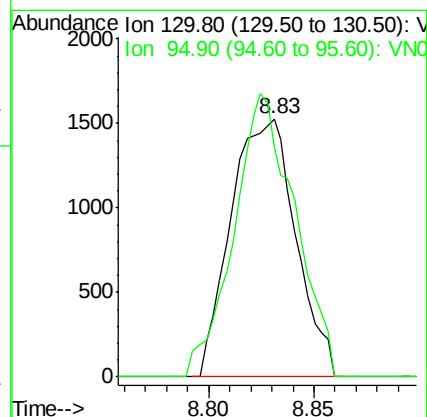
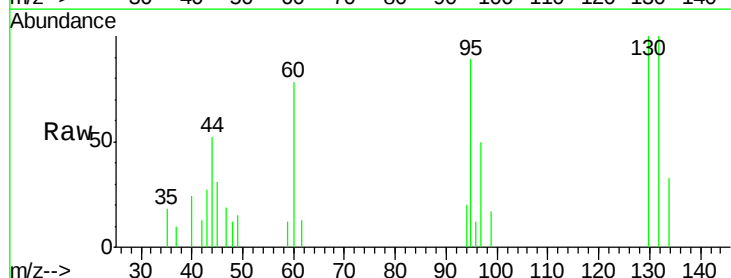
Acq: 24 Sep 2019 00:24

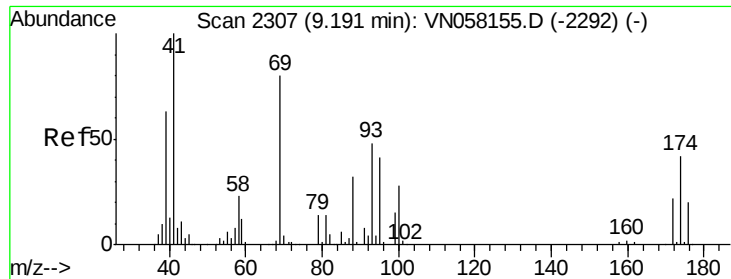
Tgt Ion: 130 Resp: 3262

Ion Ratio Lower Upper

130 100

95 89.0 0.0 207.8

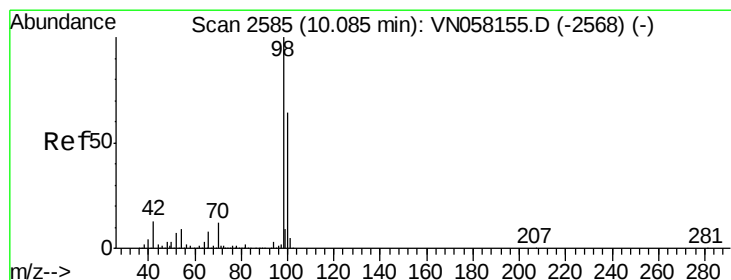
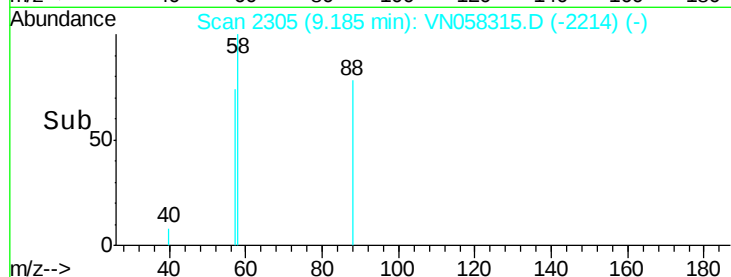
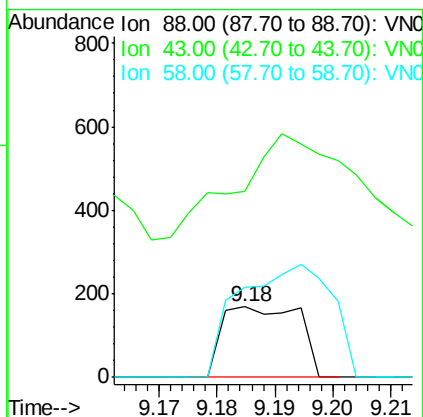
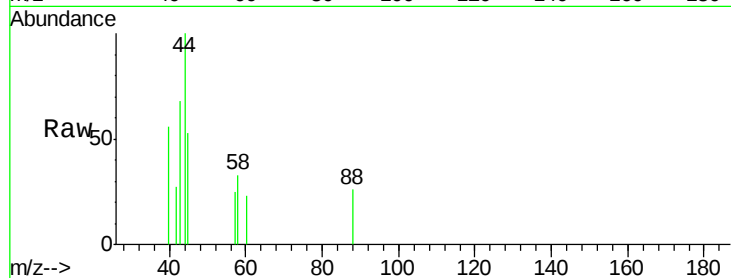




#49
 1,4-Dioxane
 Concen: 1.866 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.01 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

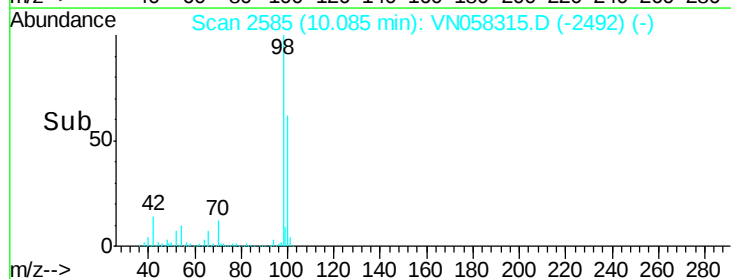
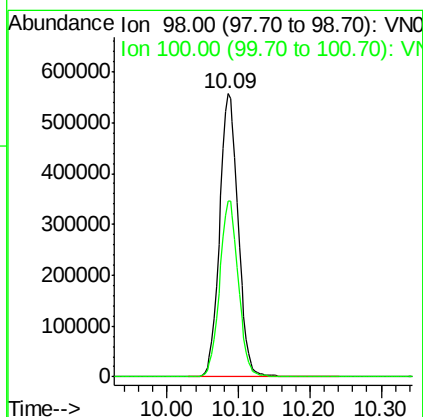
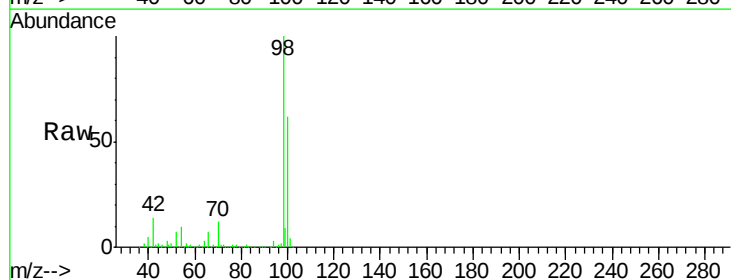
Instrument :
 MSVOA_N
 ClientSampleId :

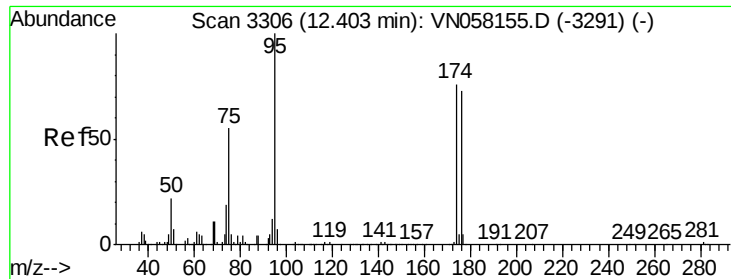
Tot Ion: 88 Resp: 154
 Ion Ratio Lower Upper
 88 100
 43 300.0 27.8 41.8#
 58 194.8 55.0 82.4#



#50
 Toluene-d8
 Concen: 53.443 ug/l
 RT: 10.09 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058315.D
 Acq: 24 Sep 2019 00:24

Tgt Ion: 98 Resp: 1002881
 Ion Ratio Lower Upper
 98 100
 100 62.7 51.1 76.7

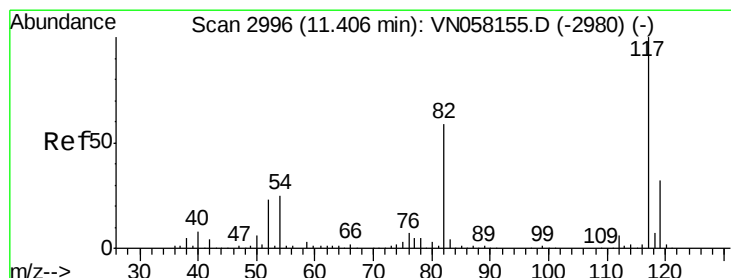
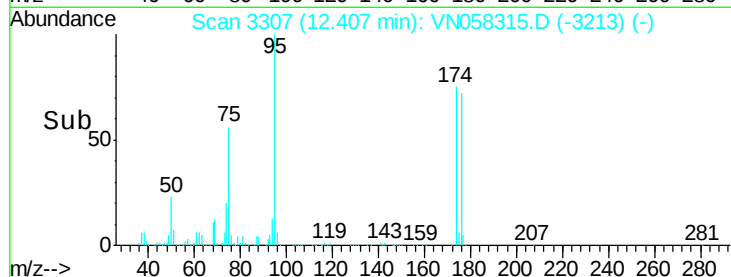
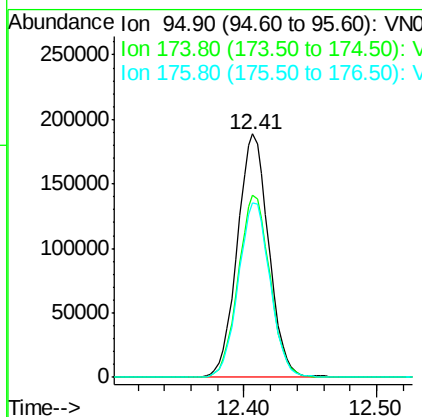
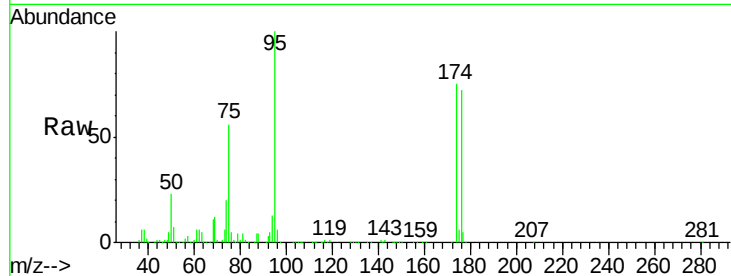




#62
4-Bromofluorobenzene
Concen: 44.564 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058315.D
Acq: 24 Sep 2019 00:24

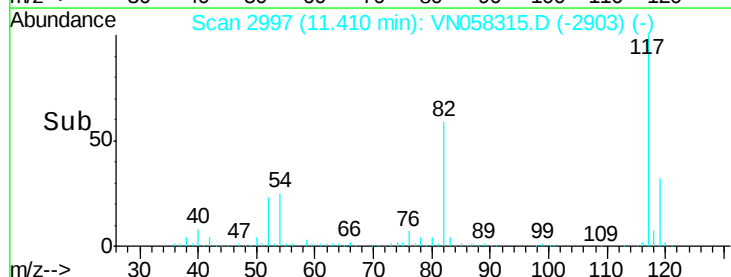
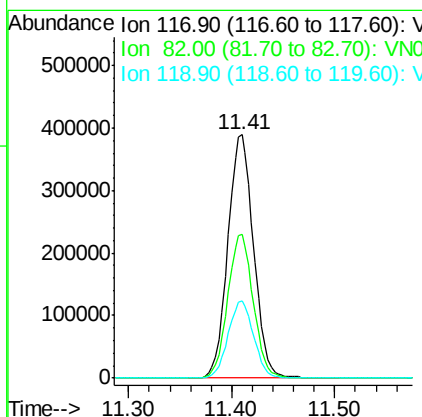
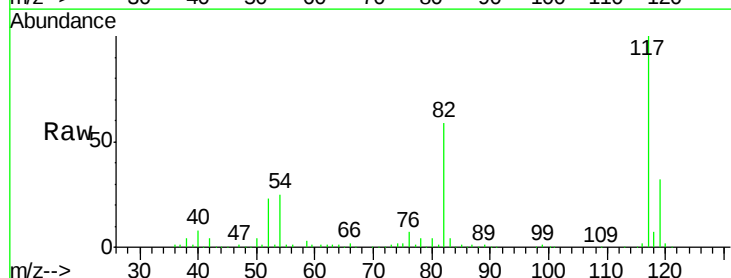
Instrument :
MSVOA_N
ClientSampleId :

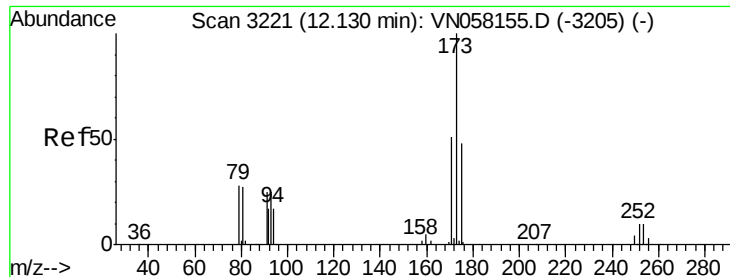
Tot Ion	95	Resp	310639
Ion Ratio	Lower	Upper	
95	100		
174	75.4	0.0	152.2
176	72.5	0.0	148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058315.D
Acq: 24 Sep 2019 00:24

Tgt Ion	117	Resp	675025
Ion Ratio	Lower	Upper	
117	100		
82	59.1	46.9	70.3
119	31.6	25.3	37.9





#71

Bromoform

Concen: 3.748 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

Instrument :

MSVOA_N

ClientSampleId :

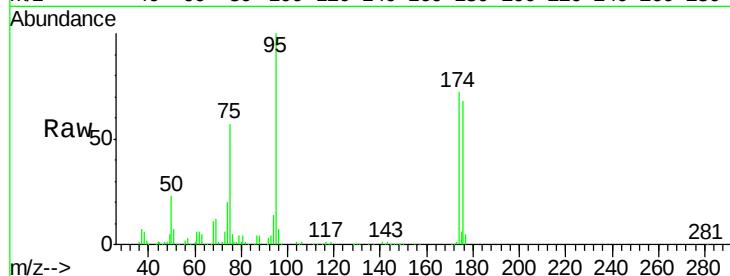
Tot Ion:173 Resp: 525

Ion Ratio Lower Upper

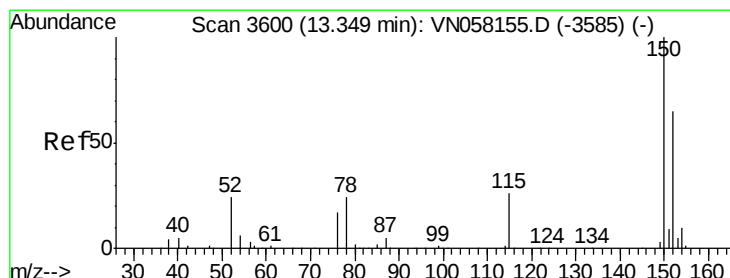
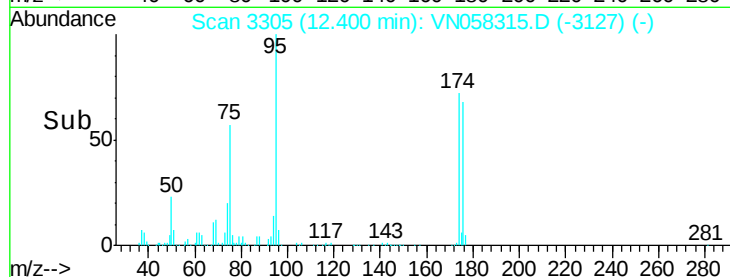
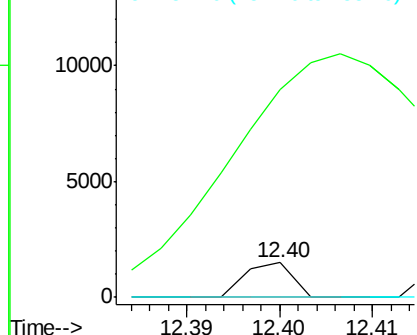
173 100

175 2819.0 24.2 72.6#

254 0.0 0.1 0.1#



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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

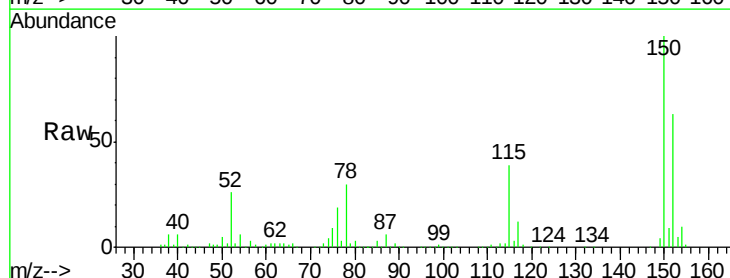
Tgt Ion:152 Resp: 270102

Ion Ratio Lower Upper

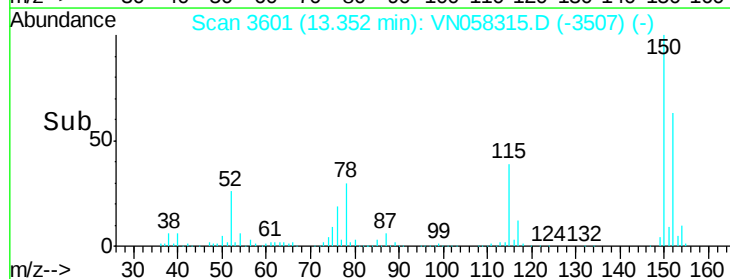
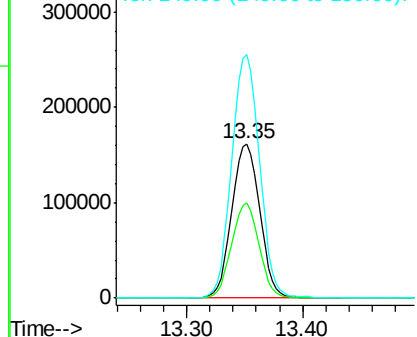
152 100

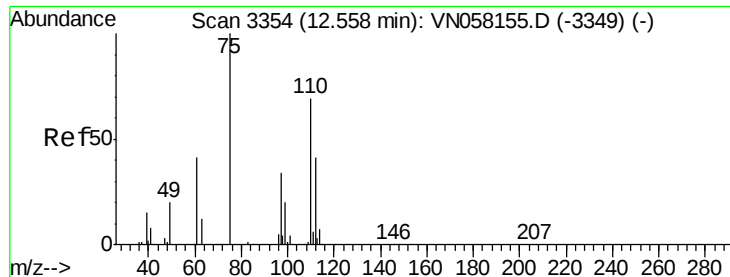
115 60.3 30.1 90.3

150 156.7 0.0 346.4



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





#76

1,2,3-Trichloropropane

Concen: 35.935 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

Instrument :

MSVOA_N

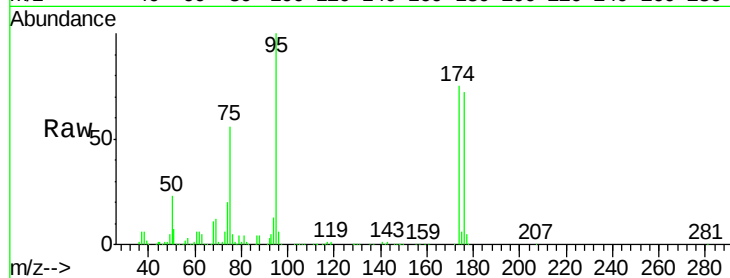
ClientSampled :

Tot Ion: 75 Resp: 173711

Ion Ratio Lower Upper

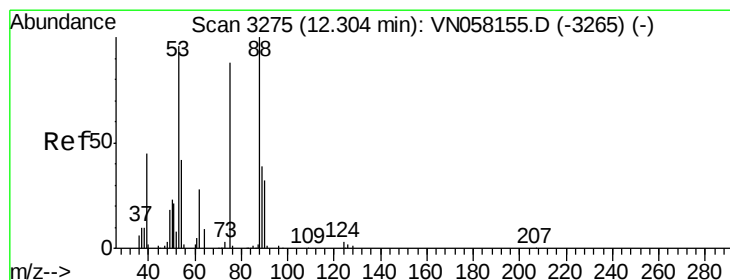
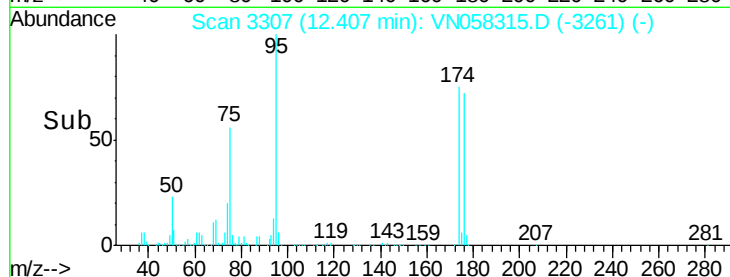
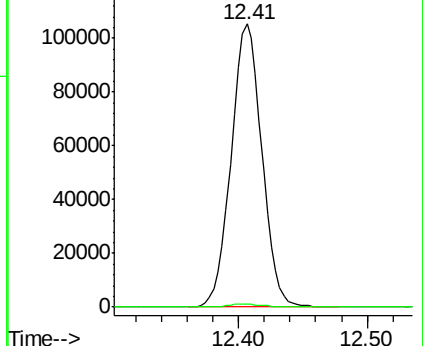
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 100.370 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058315.D

Acq: 24 Sep 2019 00:24

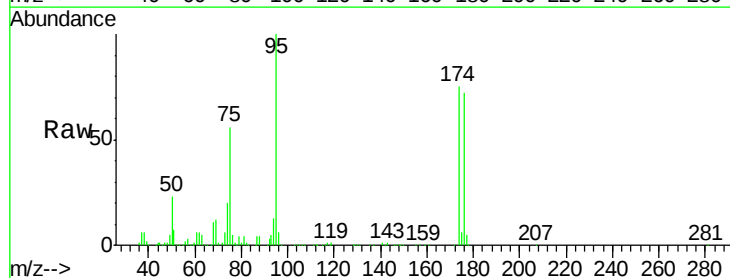
Tgt Ion: 75 Resp: 173711

Ion Ratio Lower Upper

75 100

53 0.1 90.1 135.1#

89 0.0 36.2 54.2#



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

