

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052820\
 Data File : VN061545.D
 Acq On : 28 May 2020 21:40
 Operator : JC/MD
 Sample : VN0528WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 29 02:17:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	308994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	541077	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	520003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	237745	50.00	ug/l	0.00

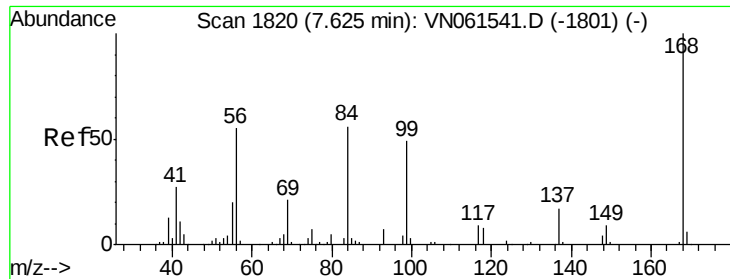
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	186209	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
35) Dibromofluoromethane	7.55	113	154383	56.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.50%	
50) Toluene-d8	10.06	98	648533	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
62) 4-Bromofluorobenzene	12.38	95	243705	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.82	85	292	1.228	ug/l #	43
3) Chloromethane	2.03	50	1003	0.266	ug/l #	77
5) Bromomethane	2.54	94	749	0.253	ug/l #	69
10) Methyl Iodide	3.91	142	1026	0.250	ug/l #	83
16) Acetone	3.78	43	3718	Below Cal		95
17) Carbon Disulfide	4.01	76	3916	0.564	ug/l #	74
20) Methylene Chloride	4.50	84	134	Below Cal	#	25
31) Cyclohexane	7.62	56	6426	1.239	ug/l #	20
38) Carbon Tetrachloride	7.63	117	30608	6.625	ug/l #	17
51) 4-Methyl-2-Pentanone	9.96	43	964	0.246	ug/l #	32
59) 2-Hexanone	10.72	43	970	0.345	ug/l	84
68) m/p-Xylenes	11.60	106	1638	0.221	ug/l	92
71) Bromoform	12.38	173	1724	0.556	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	118132	27.326	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	118132	69.879	ug/l #	15
82) 4-Chlorotoluene	12.75	91	2617	0.215	ug/l	86
87) 1,3-Dichlorobenzene	13.26	146	1971	0.251	ug/l	99
88) 1,4-Dichlorobenzene	13.26	146	1971	0.247	ug/l	99
89) n-Butylbenzene	13.59	91	3407	0.267	ug/l	91
91) 1,2-Dichlorobenzene	13.63	146	1682	0.224	ug/l	84
93) 1,2,4-Trichlorobenzene	14.89	180	2262	0.516	ug/l	90
94) Hexachlorobutadiene	14.99	225	892	0.477	ug/l	94
95) Naphthalene	15.11	128	7216	0.541	ug/l	97
96) 1,2,3-Trichlorobenzene	15.28	180	2287	0.531	ug/l	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

Instrument :

MSVOA_N

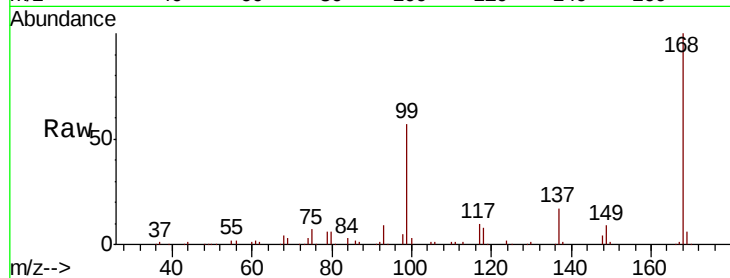
ClientSampleId :

Tot Ion:168 Resp: 308994

Ion Ratio Lower Upper

168 100

99 57.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061541.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061541.D (-1801) (-)

7.63

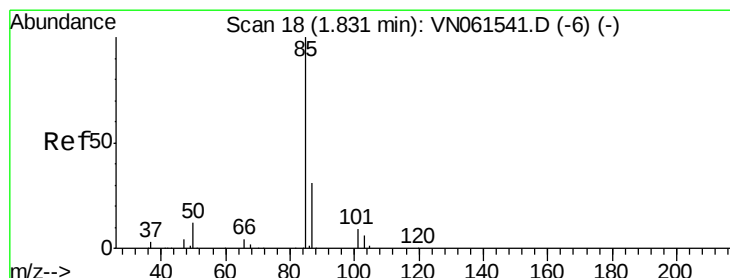
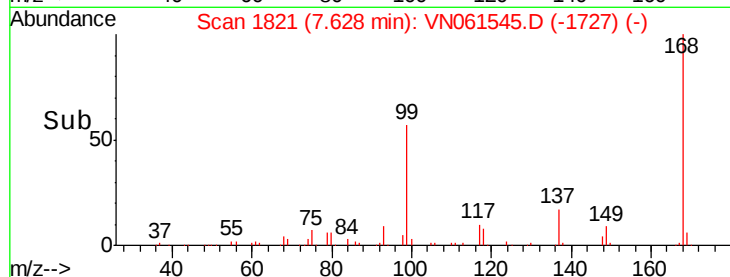
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.228 ug/l

RT: 1.82 min Scan# 16

Delta R.T. -0.01 min

Lab File: VN061545.D

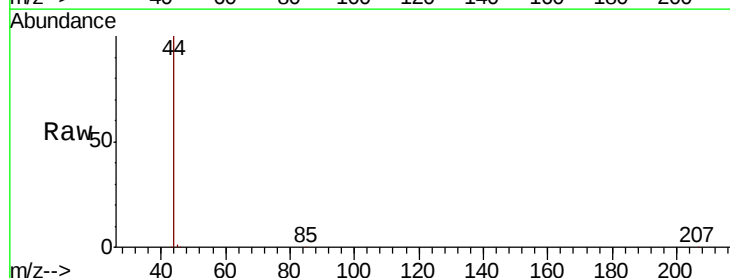
Acq: 28 May 2020 21:40

Tgt Ion: 85 Resp: 292

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VN061541.D (-6) (-)

Ion 86.90 (86.60 to 87.60): VN061541.D (-6) (-)

1.82

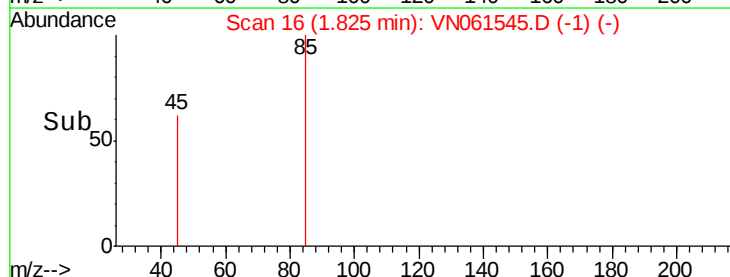
300

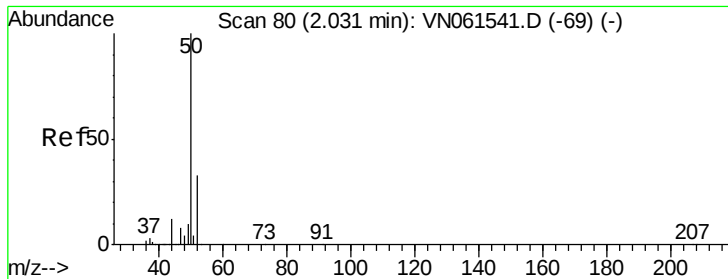
200

100

0

Time--> 1.82 1.84





#3

Chloromethane

Concen: 0.266 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

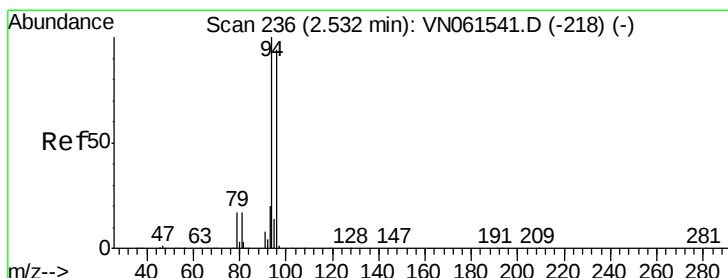
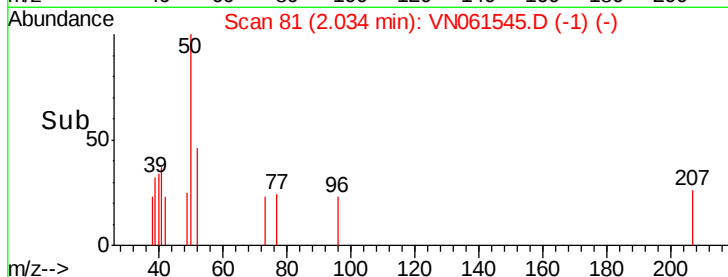
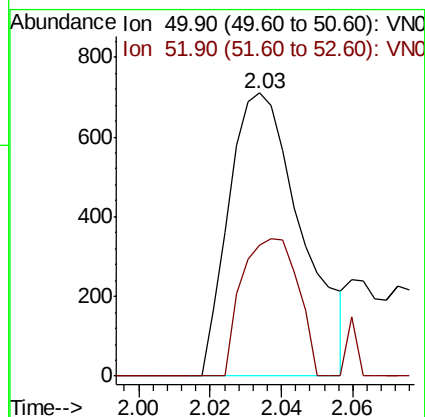
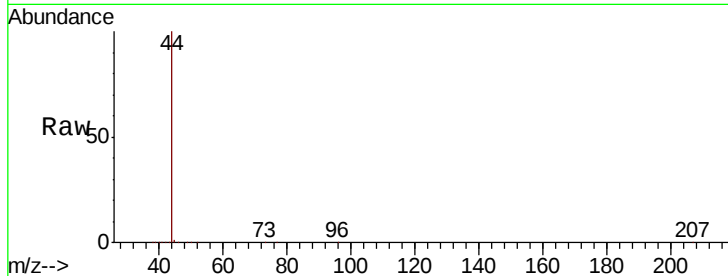
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 50 Resp: 1003

Ion Ratio Lower Upper

50 100

52 46.3 26.7 40.1#



#5

Bromomethane

Concen: 0.253 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN061545.D

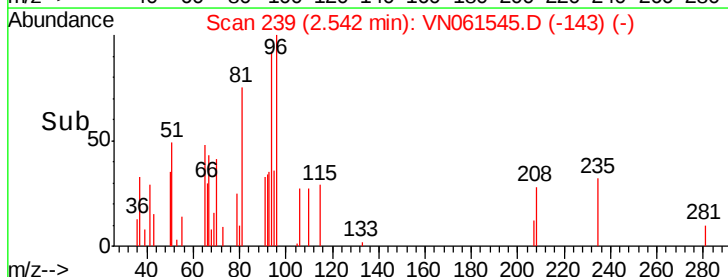
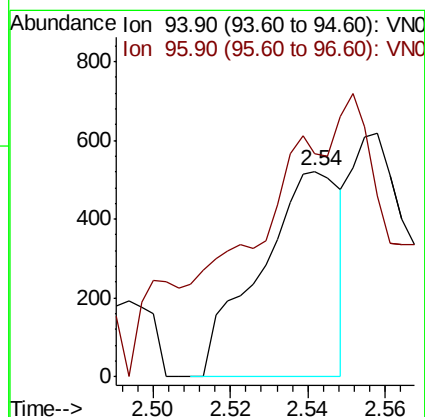
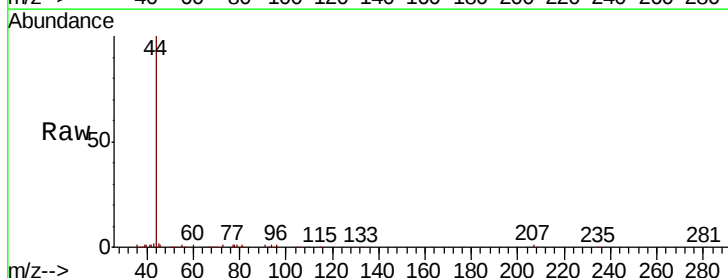
Acq: 28 May 2020 21:40

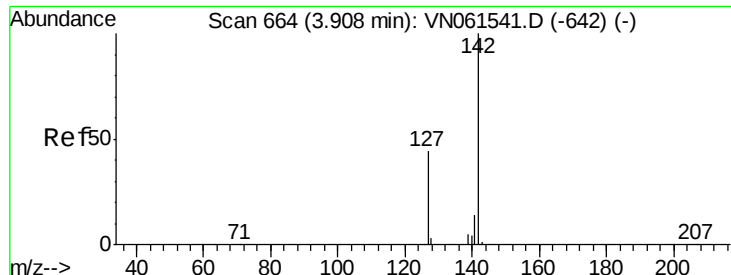
Tgt Ion: 94 Resp: 749

Ion Ratio Lower Upper

94 100

96 63.4 74.8 112.2#

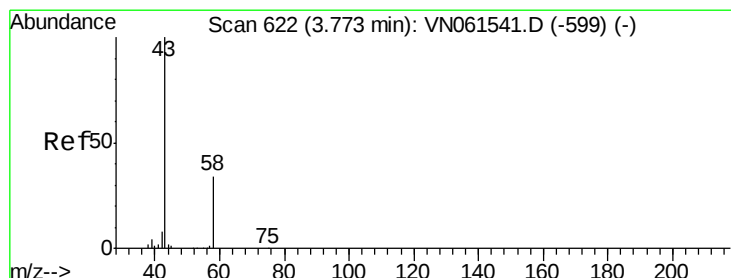
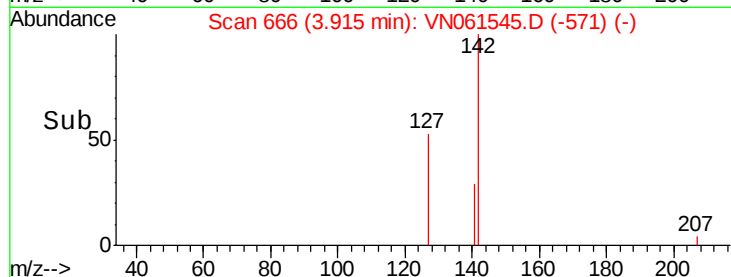
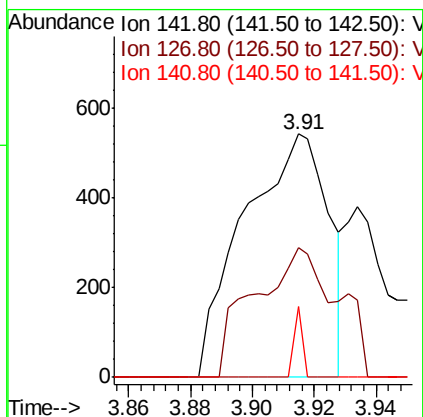
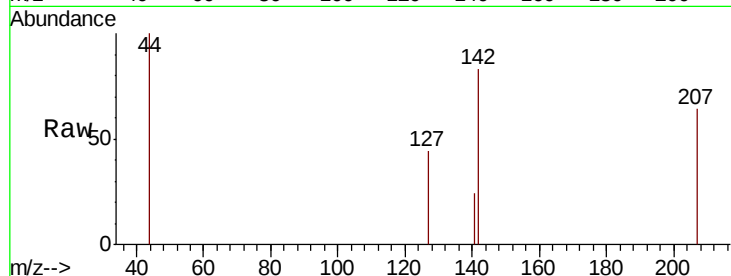




#10
Methvl Iodide
Concen: 0.250 ug/l
RT: 3.91 min Scan# 666
Delta R.T. 0.01 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

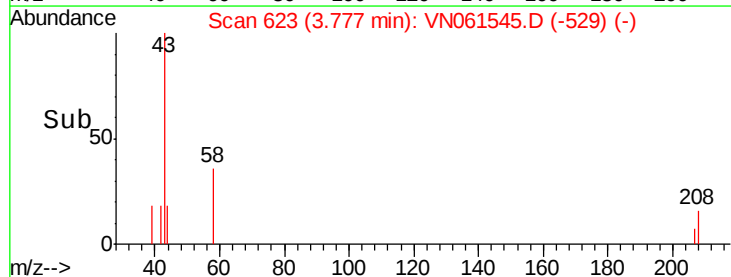
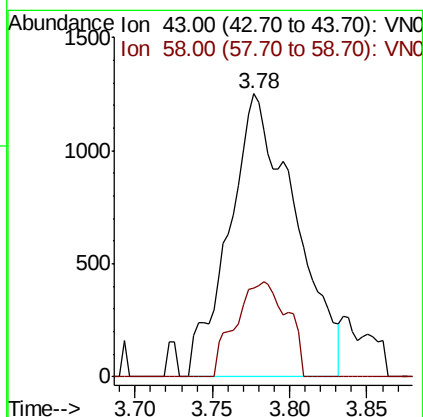
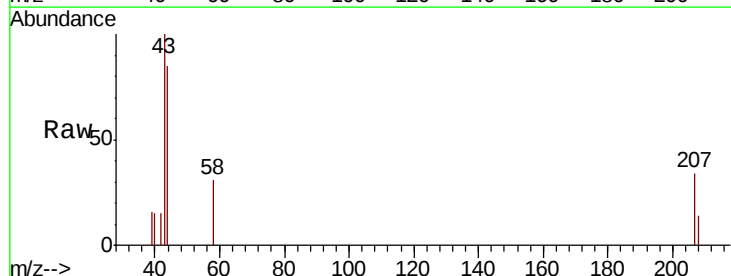
Instrument :
MSVOA_N
ClientSampled :

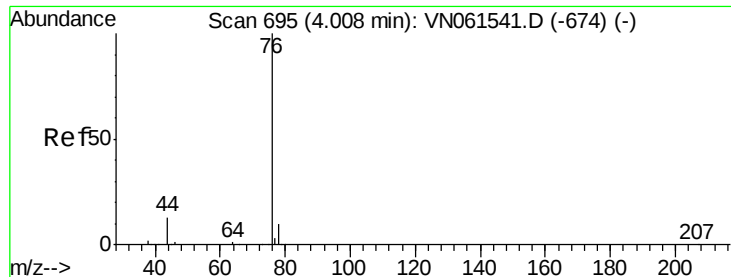
Tot Ion:142 Resp: 1026
Ion Ratio Lower Upper
142 100
127 52.7 35.5 53.3
141 2.9 11.5 17.3#



#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Tgt Ion: 43 Resp: 3718
Ion Ratio Lower Upper
43 100
58 31.3 27.2 40.8

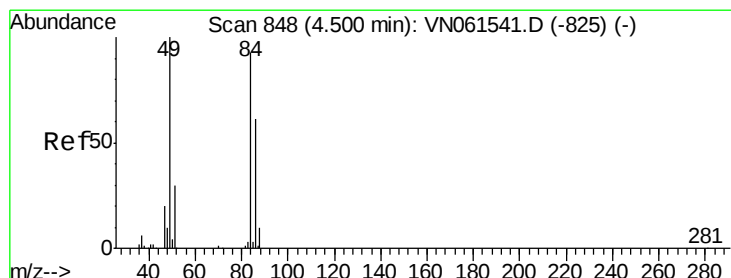
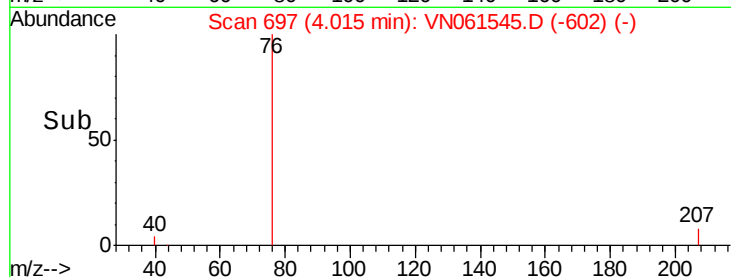
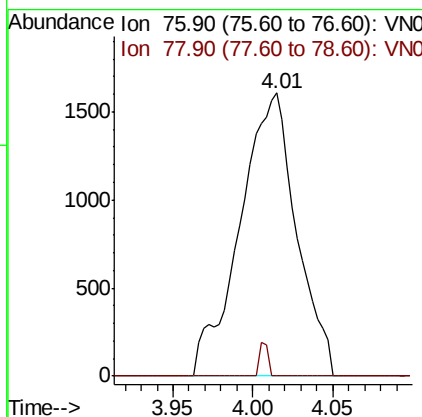
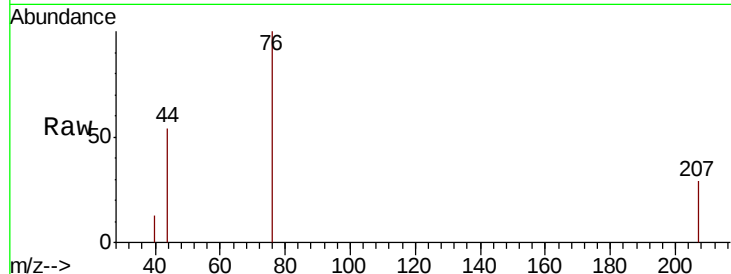




#17
Carbon Disulfide
Concen: 0.564 ug/l
RT: 4.01 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

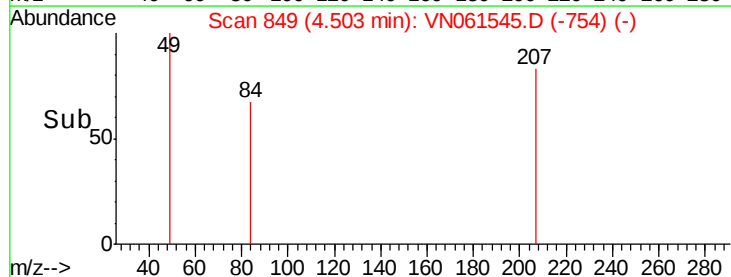
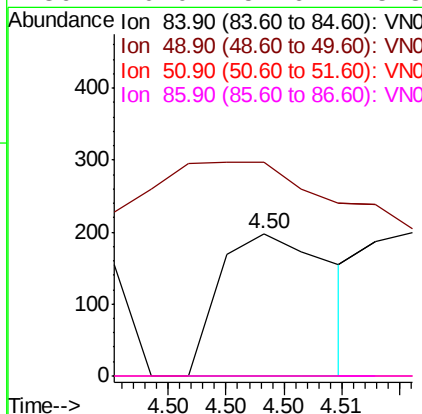
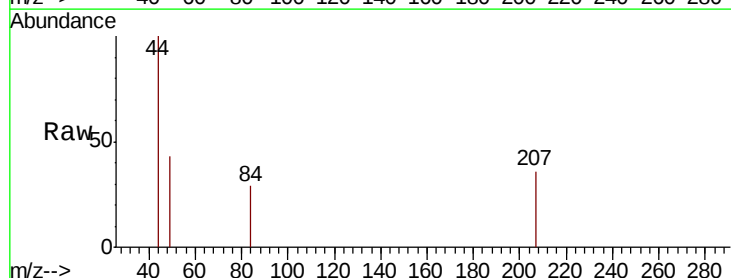
Instrument :
MSVOA_N
ClientSampled :

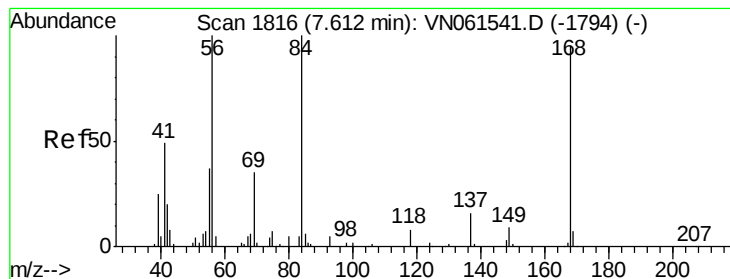
Tot Ion: 76 Resp: 3916
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Tgt Ion: 84 Resp: 134
Ion Ratio Lower Upper
84 100
49 28.8 85.8 128.8#
51 0.0 26.2 39.2#
86 0.0 52.6 78.8#





#31

Cyclohexane

Concen: 1.239 ug/l

RT: 7.62 min Scan# 1816

Delta R.T. 0.01 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

Instrument :

MSVOA_N

ClientSampled :

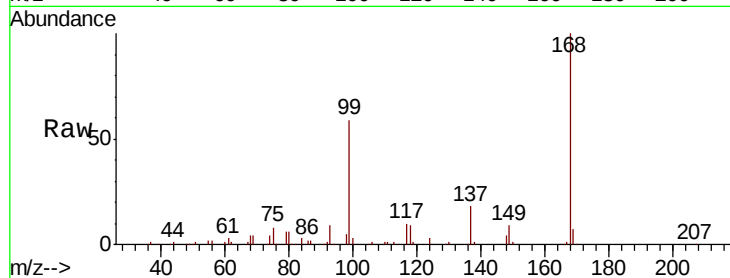
Tot Ion: 56 Resp: 6426

Ion Ratio Lower Upper

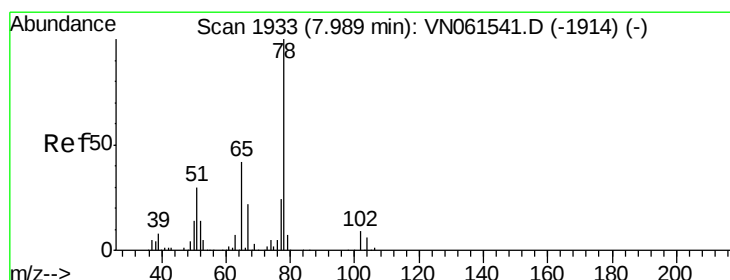
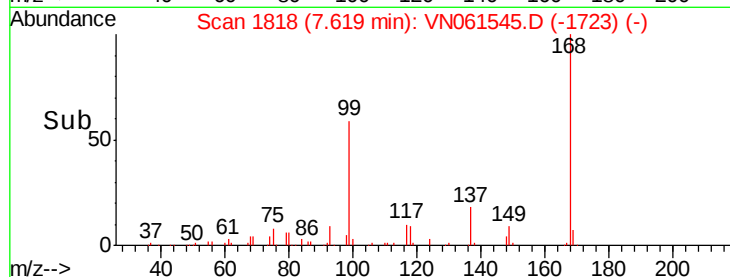
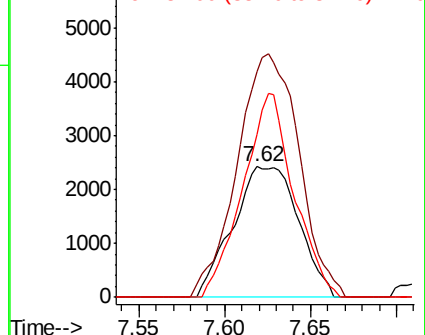
56 100

69 172.5 27.8 41.8#

84 124.7 79.9 119.9#



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



#33

1,2-Dichloroethane-d4

Concen: 50.580 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061545.D

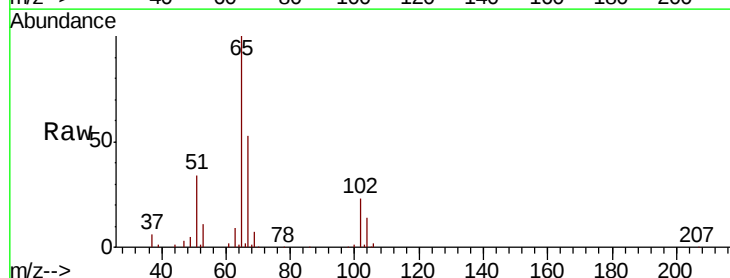
Acq: 28 May 2020 21:40

Tgt Ion: 65 Resp: 186209

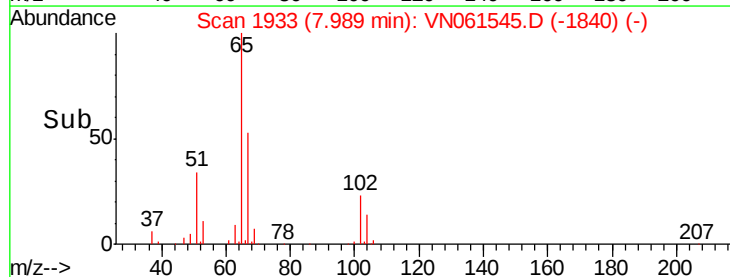
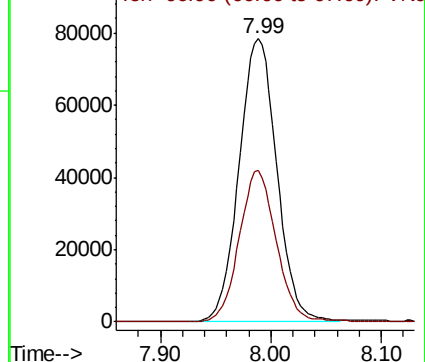
Ion Ratio Lower Upper

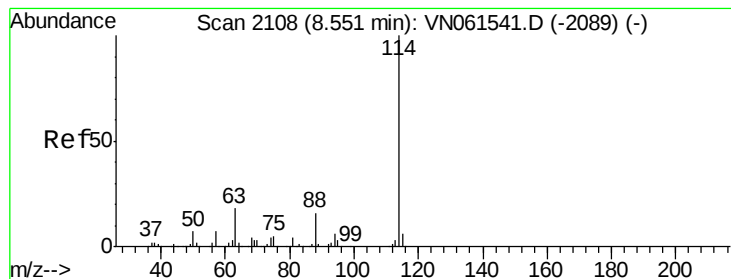
65 100

67 52.4 0.0 104.8



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

Instrument :

MSVOA_N

ClientSampleId :

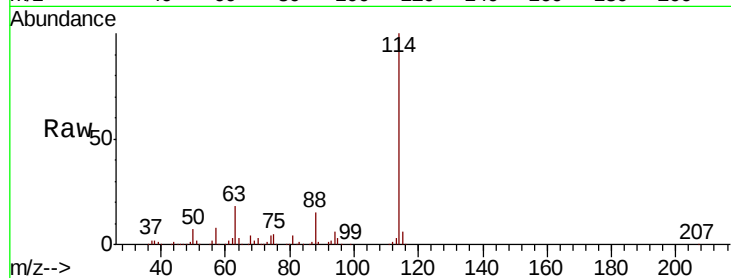
Tot Ion:114 Resp: 541077

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.8

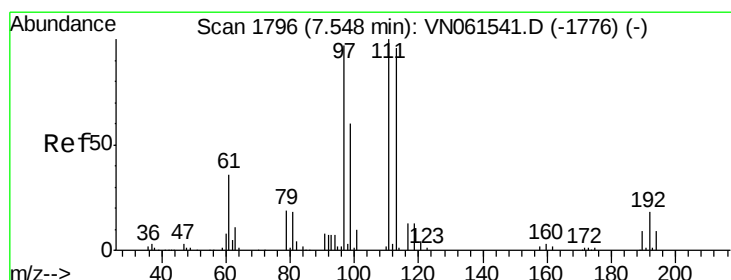
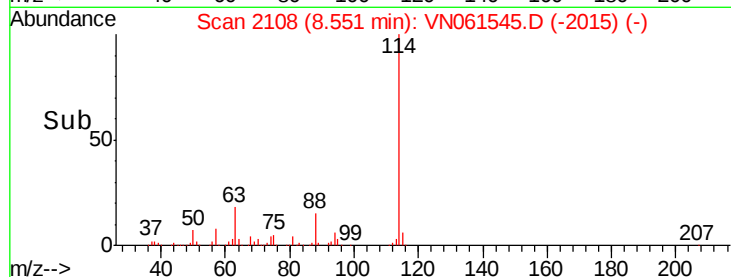
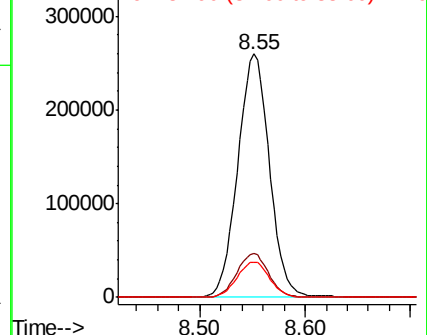
88 14.6 0.0 31.0



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: 56.246 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

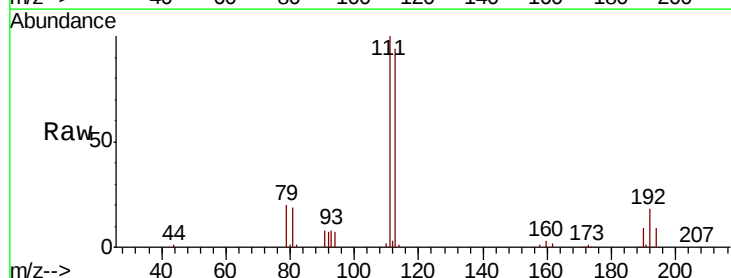
Tgt Ion:113 Resp: 154383

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.0

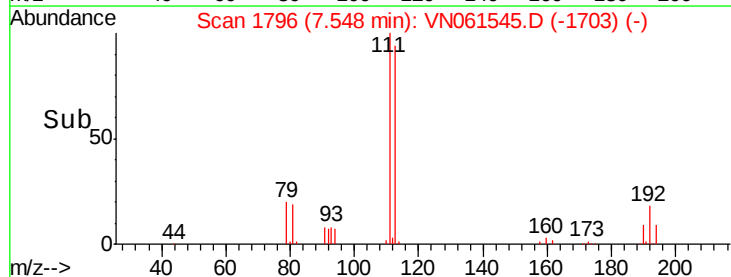
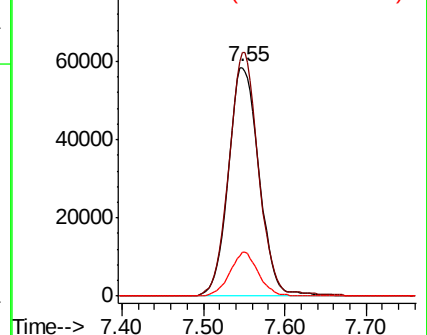
192 17.8 15.4 23.2

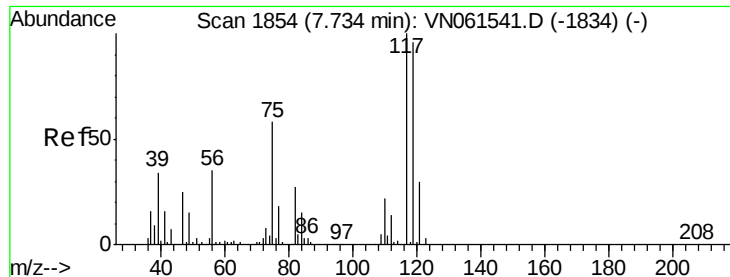


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 6.625 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

Instrument :

MSVOA_N

ClientSampleId :

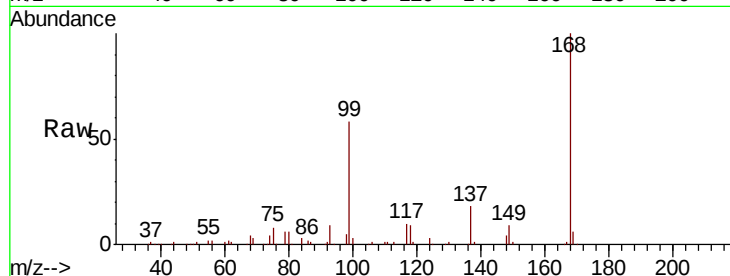
Tot Ion:117 Resp: 30608

Ion Ratio Lower Upper

117 100

119 5.8 76.5 114.7#

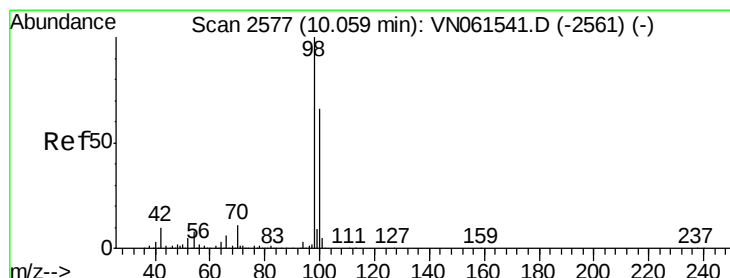
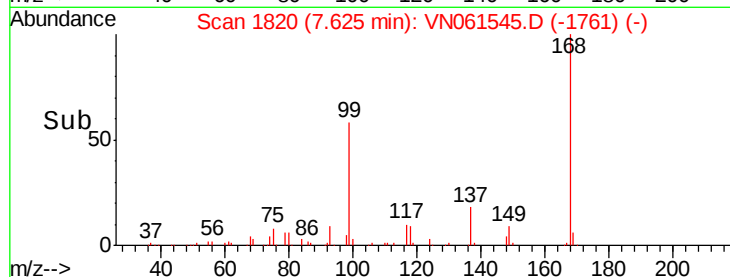
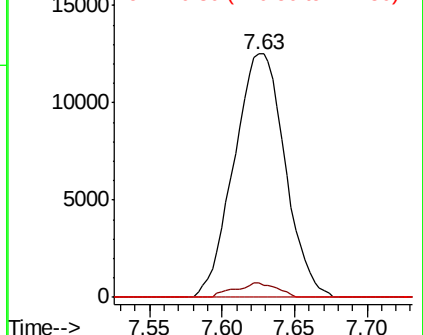
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.987 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061545.D

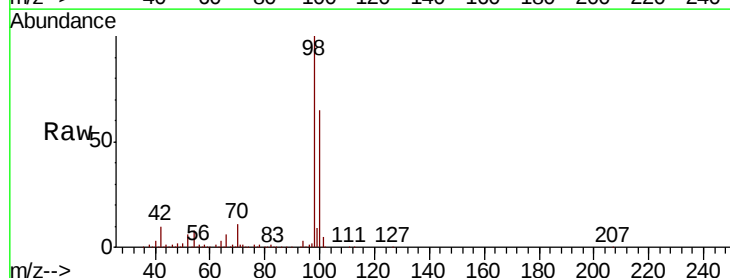
Acq: 28 May 2020 21:40

Tgt Ion: 98 Resp: 648533

Ion Ratio Lower Upper

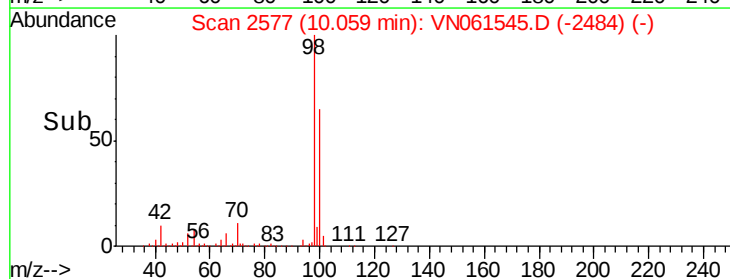
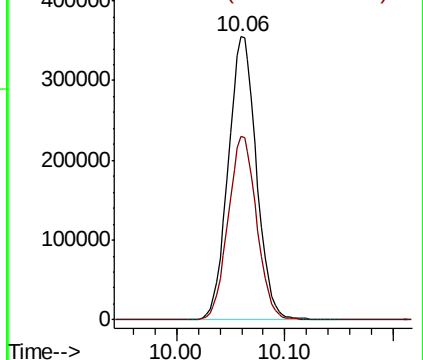
98 100

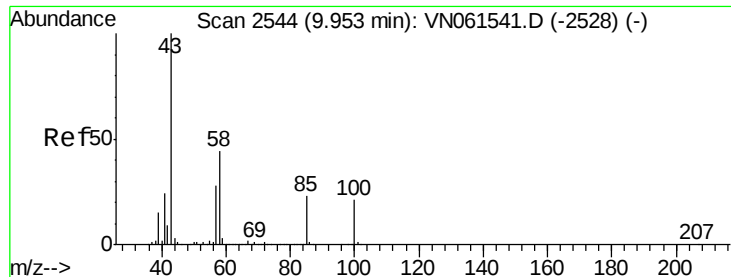
100 65.7 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

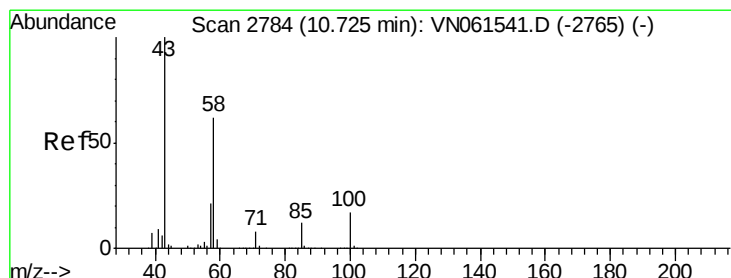
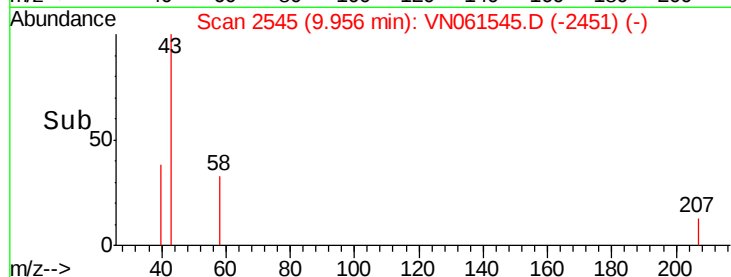
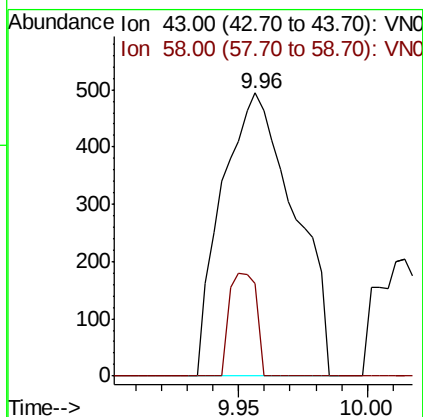
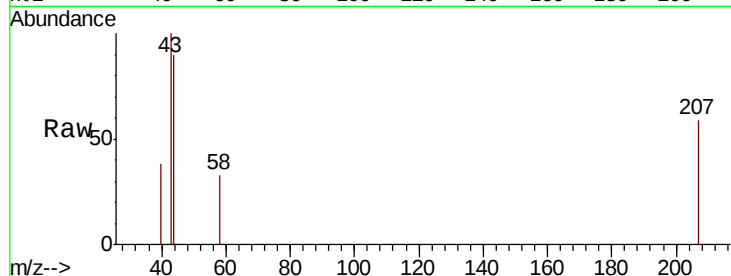




#51
 4-Methyl-2-Pentanone
 Concen: 0.246 ug/l
 RT: 9.96 min Scan# 2545
 Delta R.T. 0.00 min
 Lab File: VN061545.D
 Acq: 28 May 2020 21:40

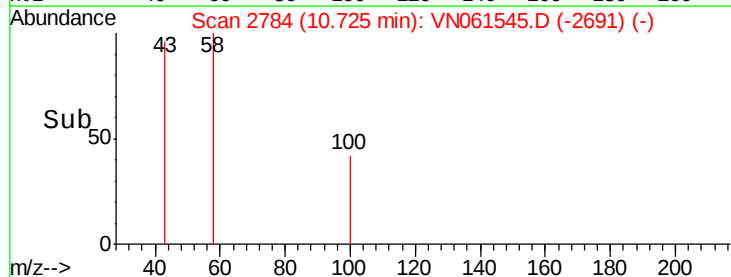
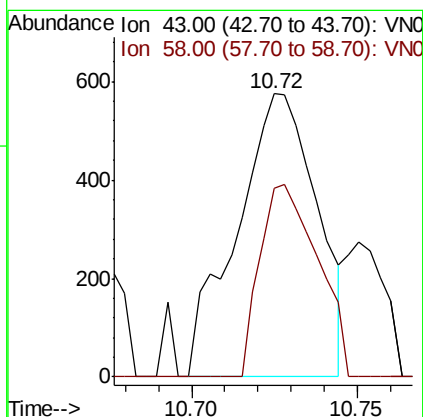
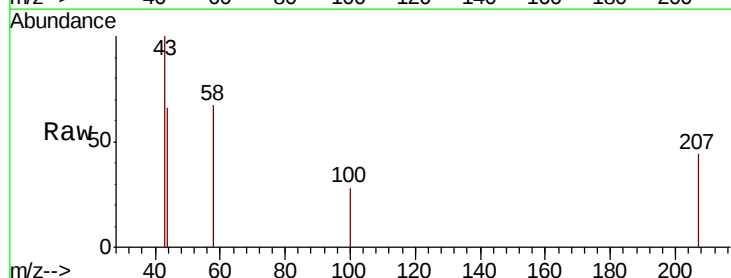
Instrument :
 MSVOA_N
 ClientSampled :

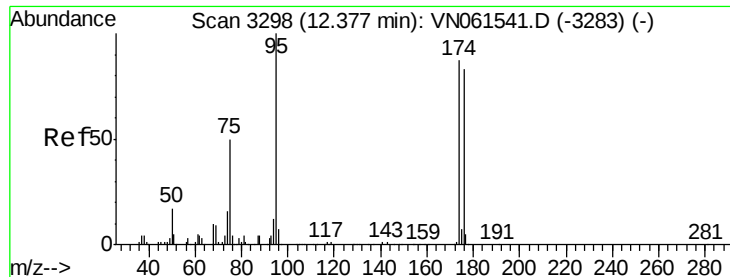
Tot Ion: 43 Resp: 964
 Ion Ratio Lower Upper
 43 100
 58 0.0 35.0 52.6#



#59
 2-Hexanone
 Concen: 0.345 ug/l
 RT: 10.72 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VN061545.D
 Acq: 28 May 2020 21:40

Tgt Ion: 43 Resp: 970
 Ion Ratio Lower Upper
 43 100
 58 49.1 30.7 92.1

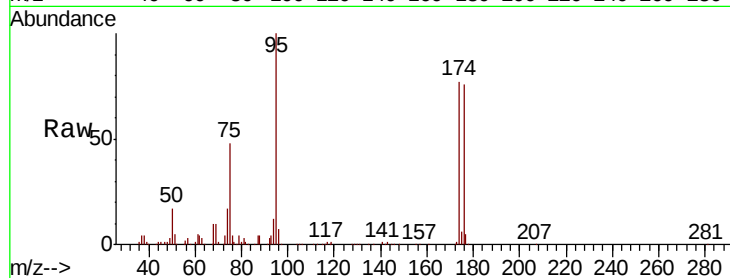




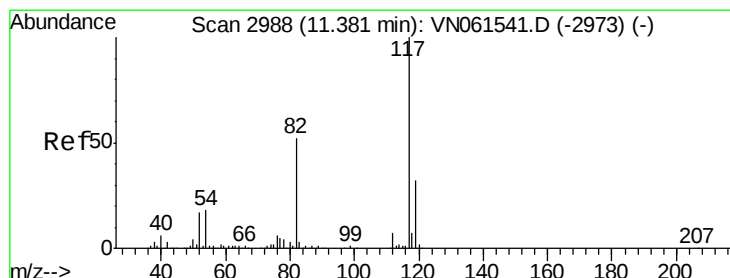
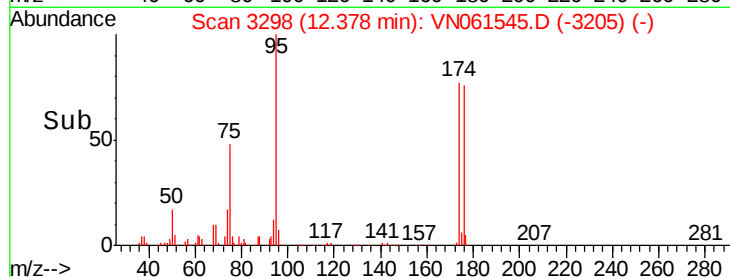
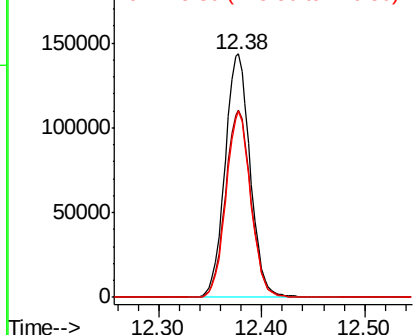
#62
4-Bromofluorobenzene
Concen: 52.516 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 243705
Ion Ratio Lower Upper
95 100
174 77.8 0.0 172.8
176 75.1 0.0 164.8

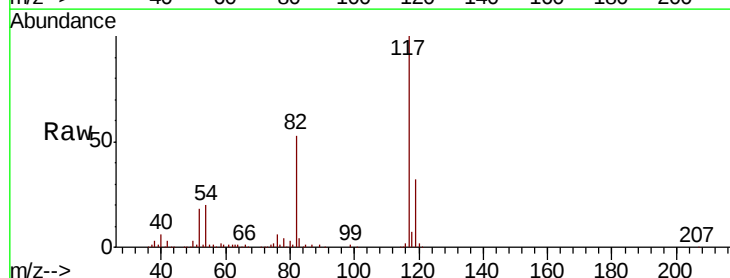


Abundance Ion 94.90 (94.60 to 95.60): VN061545.D (-3283) (-)
Ion 173.80 (173.50 to 174.50): VN061545.D (-3283) (-)
Ion 175.80 (175.50 to 176.50): VN061545.D (-3283) (-)

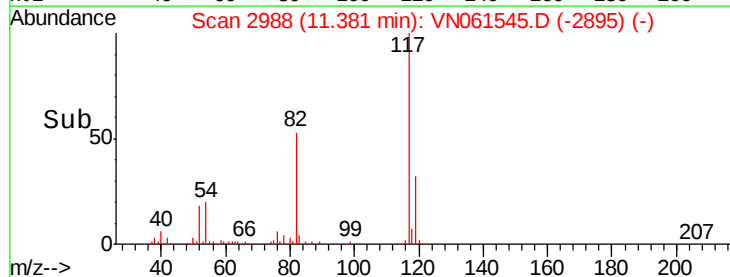
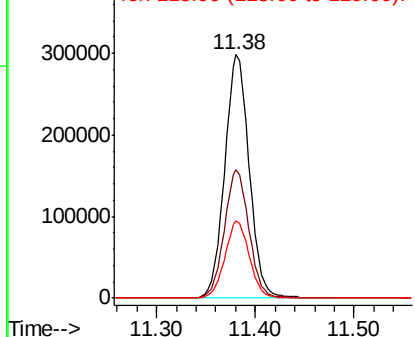


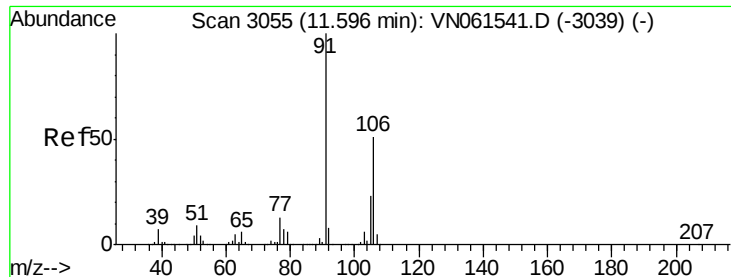
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Tgt Ion: 117 Resp: 520003
Ion Ratio Lower Upper
117 100
82 53.0 41.5 62.3
119 31.8 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN061545.D (-2973) (-)
Ion 82.00 (81.70 to 82.70): VN061545.D (-2973) (-)
Ion 118.90 (118.60 to 119.60): VN061545.D (-2973) (-)

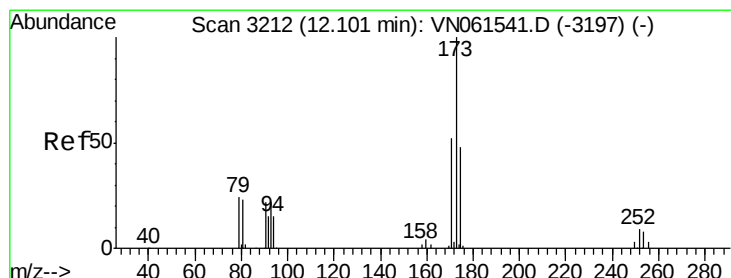
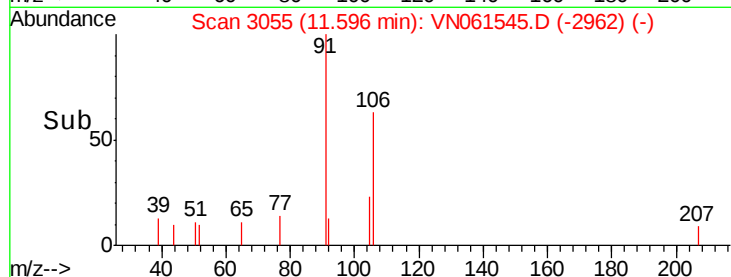
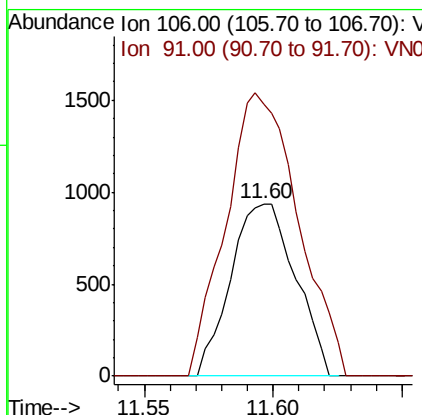
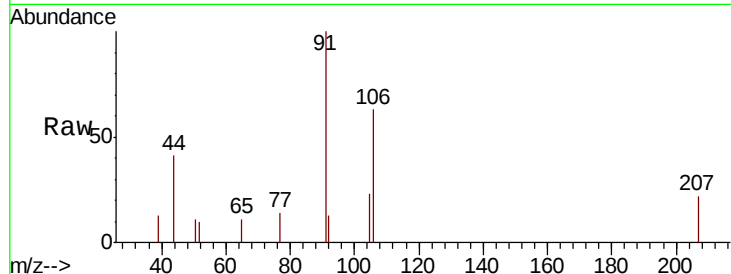




#68
m/p-Xvlenes
Concen: 0.221 ug/l
RT: 11.60 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

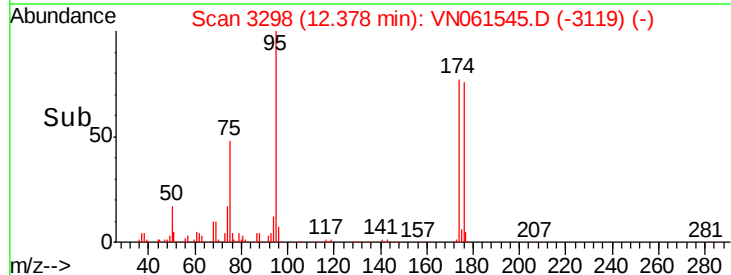
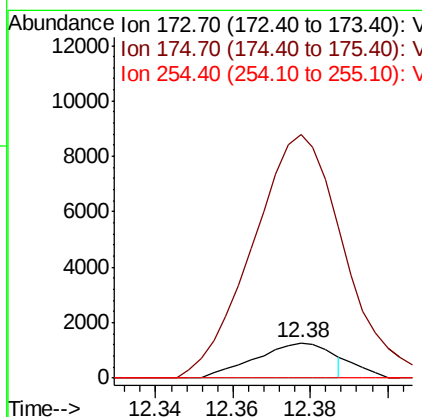
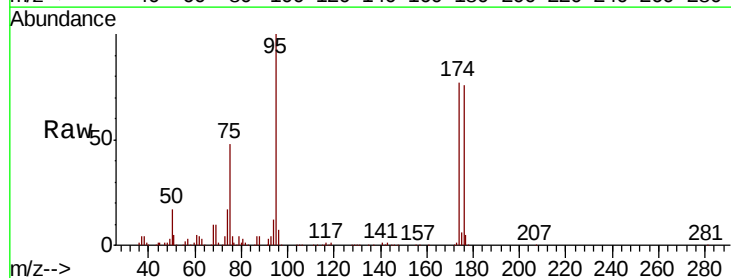
Instrument :
MSVOA_N
ClientSampleId :

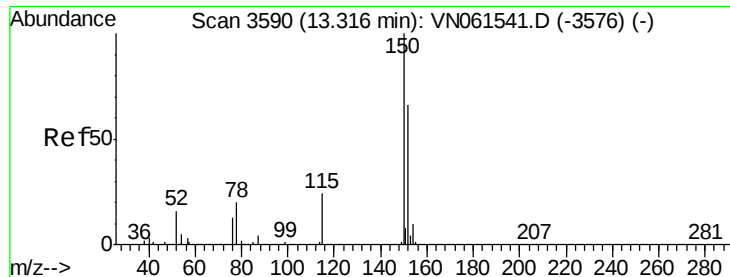
Tot Ion:106 Resp: 1638
Ion Ratio Lower Upper
106 100
91 184.1 156.2 234.4



#71
Bromoform
Concen: 0.556 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Tgt Ion:173 Resp: 1724
Ion Ratio Lower Upper
173 100
175 717.7 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

Instrument :

MSVOA_N

ClientSampleId :

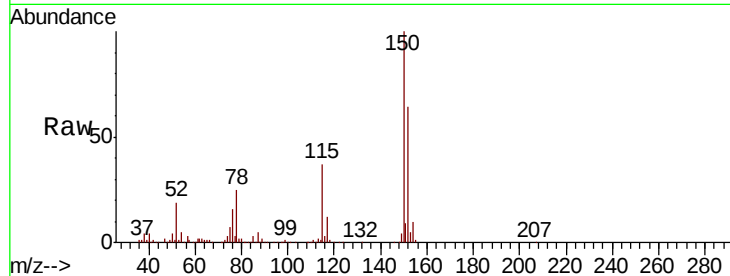
Tot Ion:152 Resp: 237745

Ion Ratio Lower Upper

152 100

115 58.5 28.0 84.0

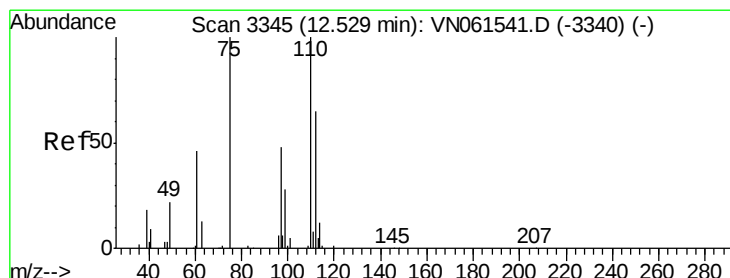
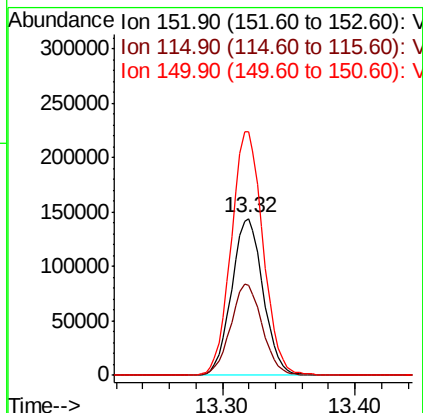
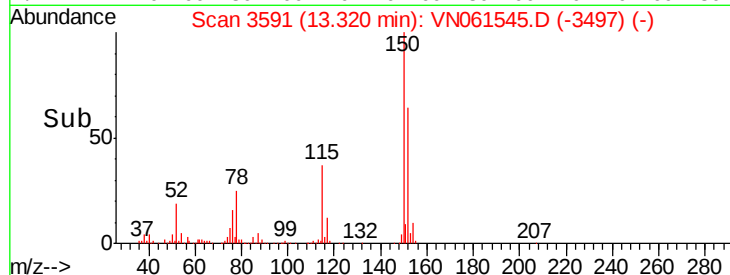
150 157.2 0.0 344.0



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: 27.326 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061545.D

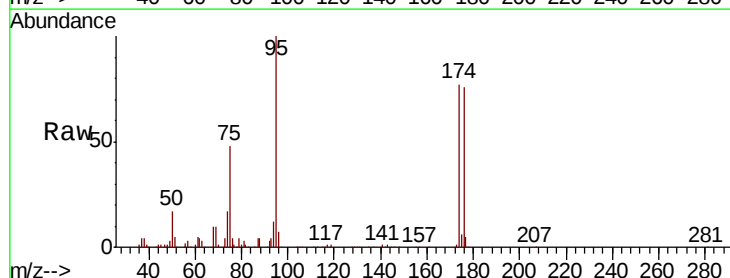
Acq: 28 May 2020 21:40

Tgt Ion: 75 Resp: 118132

Ion Ratio Lower Upper

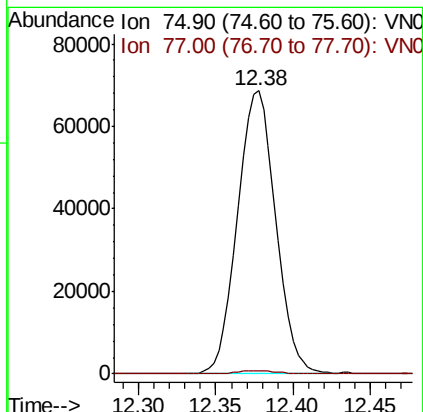
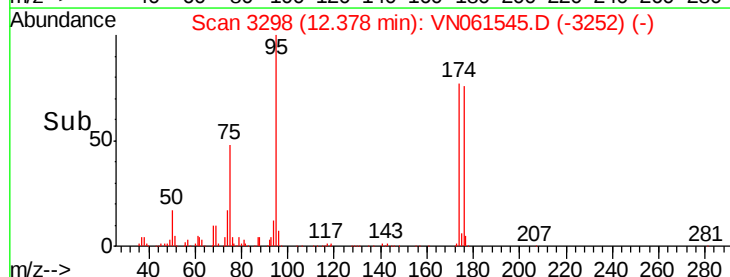
75 100

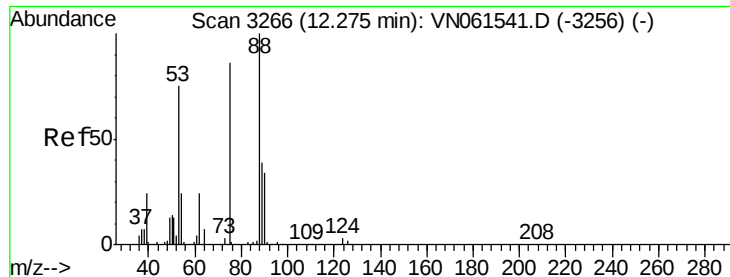
77 1.1 0.0 0.0#



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: 69.879 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061545.D

Acq: 28 May 2020 21:40

Instrument :

MSVOA_N

ClientSampled :

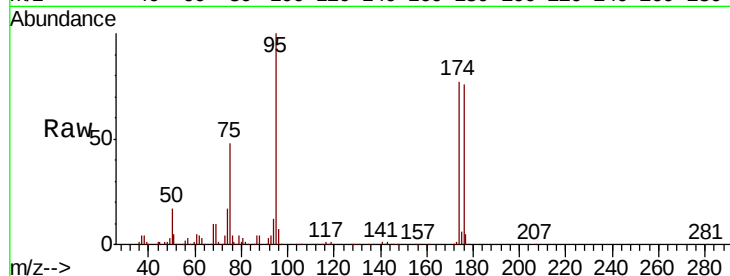
Tot Ion: 75 Resp: 118132

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

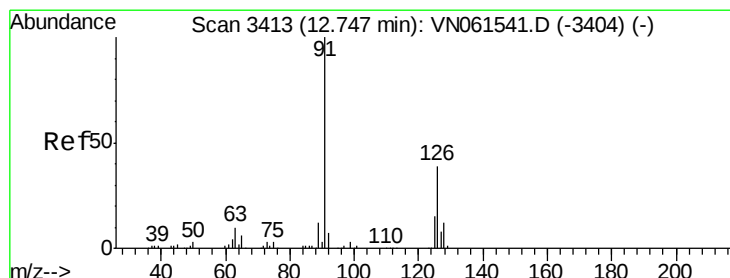
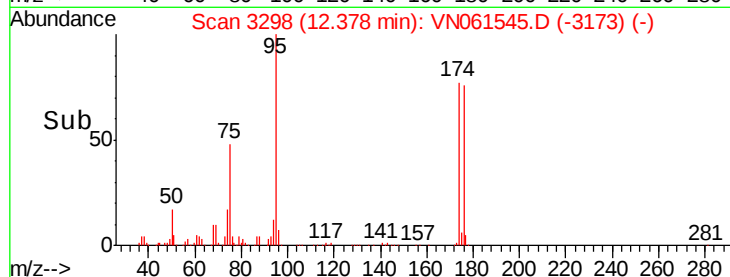
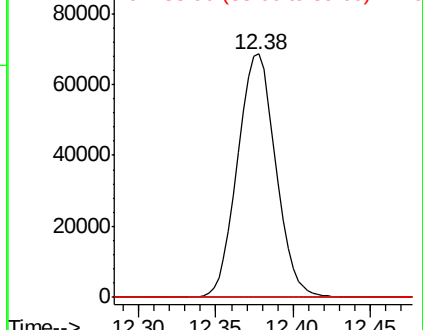
89 0.0 37.1 55.7#



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



#82

4-Chlorotoluene

Concen: 0.215 ug/l

RT: 12.75 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VN061545.D

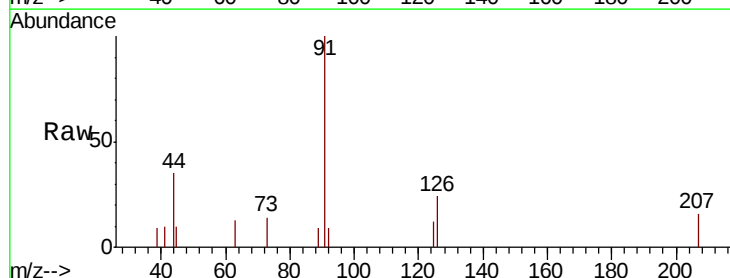
Acq: 28 May 2020 21:40

Tgt Ion: 91 Resp: 2617

Ion Ratio Lower Upper

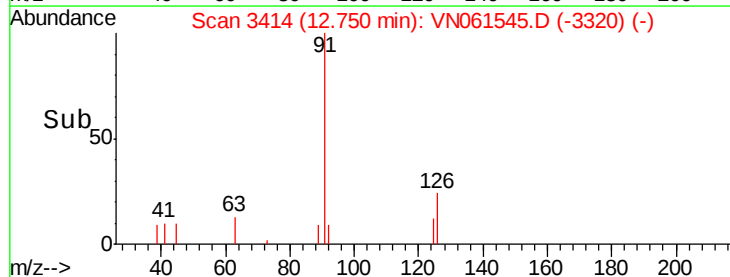
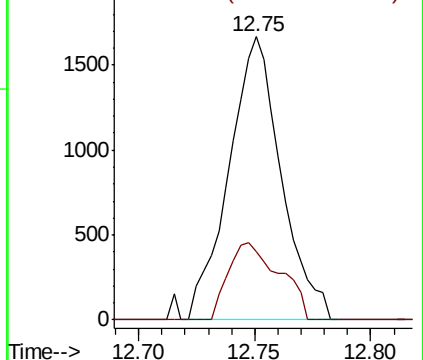
91 100

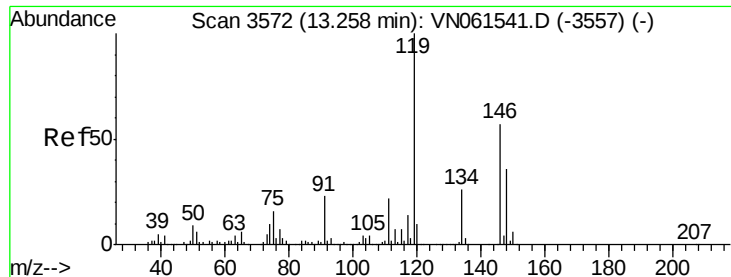
126 26.7 17.5 52.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

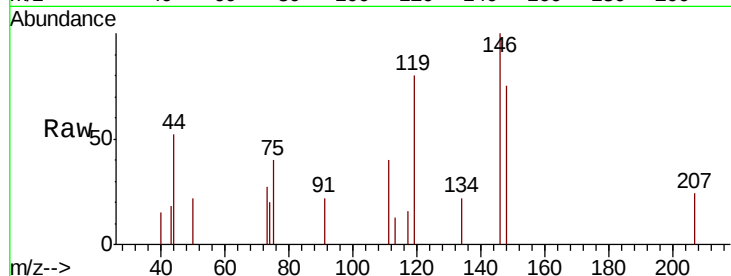




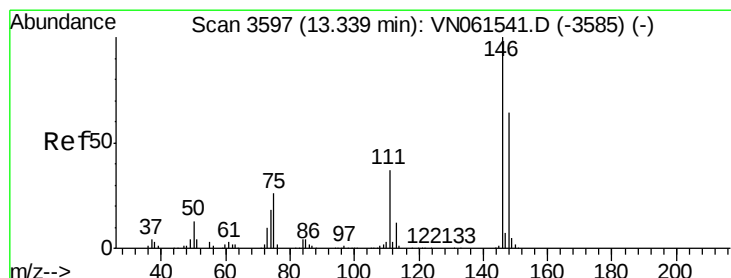
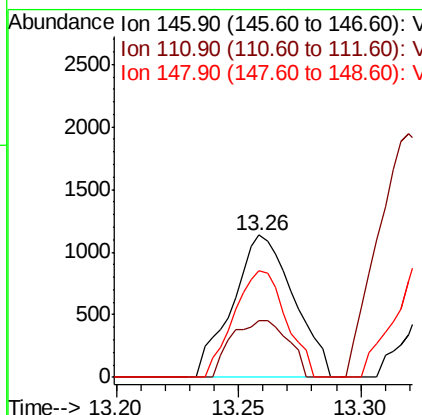
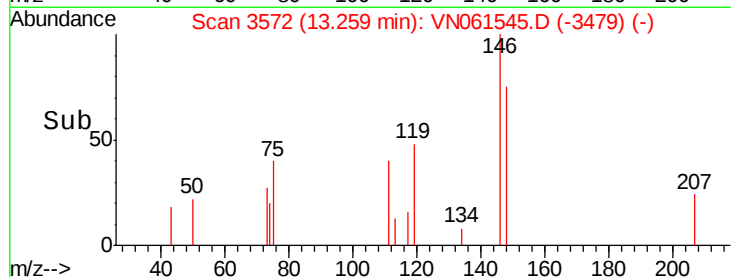
#87
 1,3-Dichlorobenzene
 Concen: 0.251 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VN061545.D
 Acq: 28 May 2020 21:40

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 1971
 Ion Ratio Lower Upper
 146 100
 111 37.2 19.2 57.6
 148 64.0 31.7 95.1

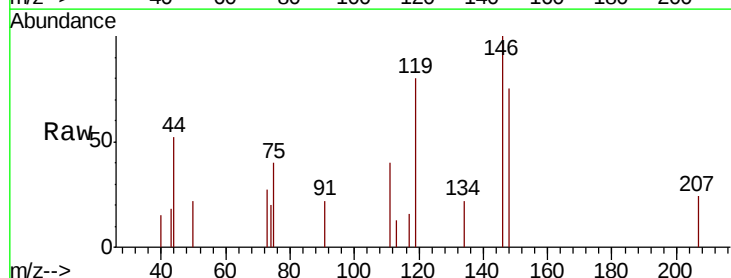


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

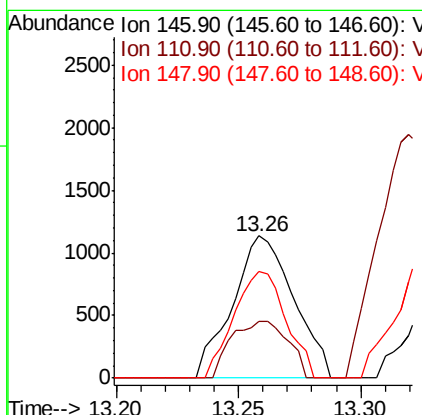
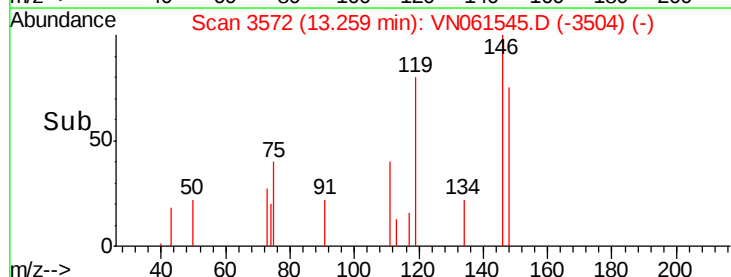


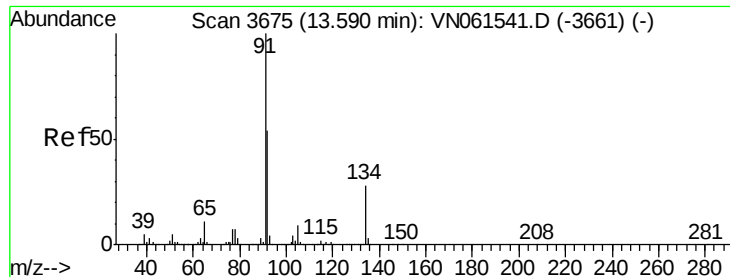
#88
 1,4-Dichlorobenzene
 Concen: 0.247 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. -0.08 min
 Lab File: VN061545.D
 Acq: 28 May 2020 21:40

Tgt Ion:146 Resp: 1971
 Ion Ratio Lower Upper
 146 100
 111 37.2 18.9 56.9
 148 64.0 31.8 95.3



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

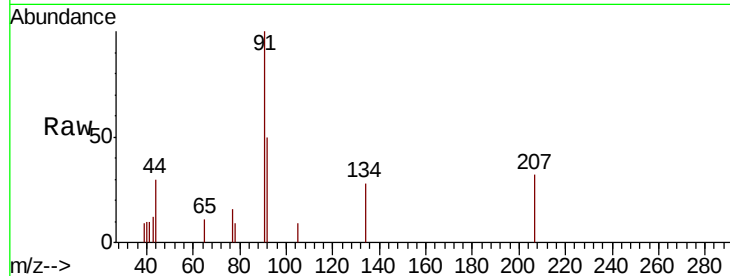




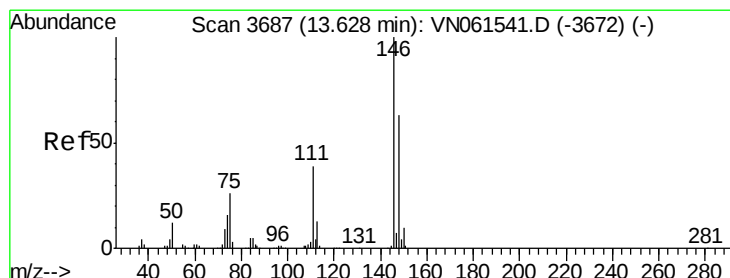
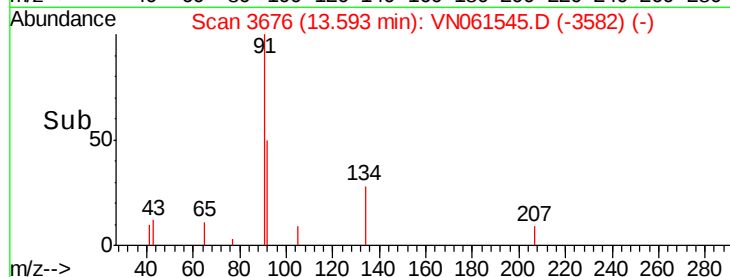
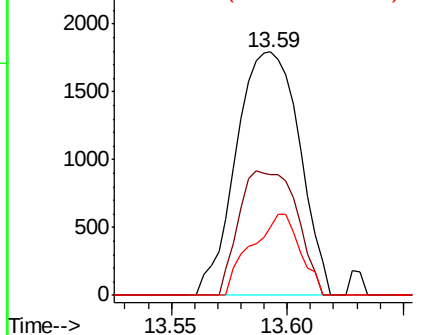
#89
n-Butylbenzene
Concen: 0.267 ug/l
RT: 13.59 min Scan# 3676
Delta R.T. 0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 91 Resp: 3407
Ion Ratio Lower Upper
91 100
92 46.7 27.2 81.6
134 25.6 14.0 42.0

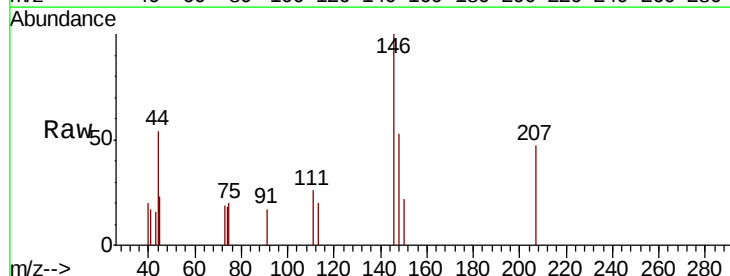


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

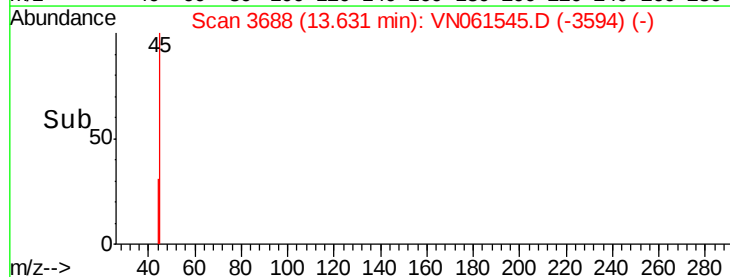
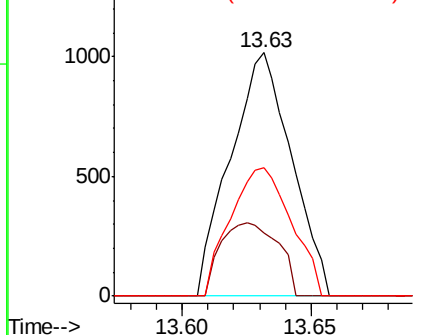


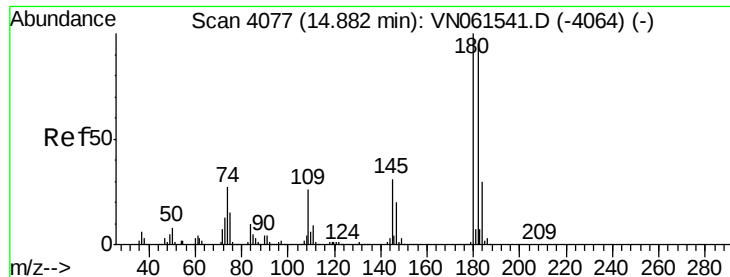
#91
1,2-Dichlorobenzene
Concen: 0.224 ug/l
RT: 13.63 min Scan# 3688
Delta R.T. 0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Tgt Ion: 146 Resp: 1682
Ion Ratio Lower Upper
146 100
111 28.3 20.1 60.2
148 52.4 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

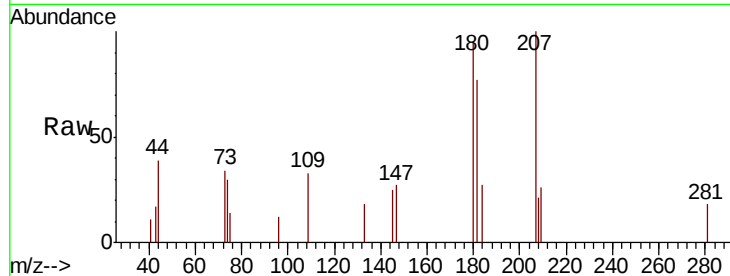




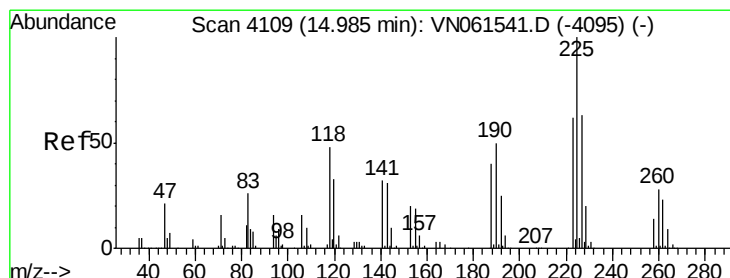
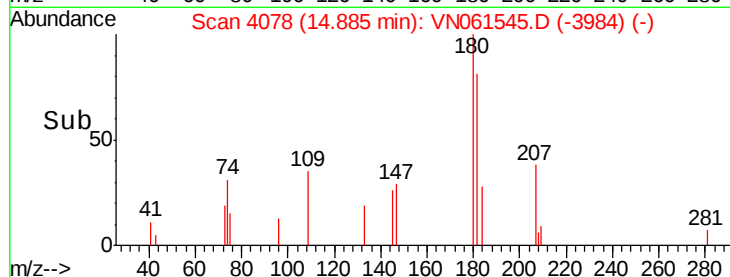
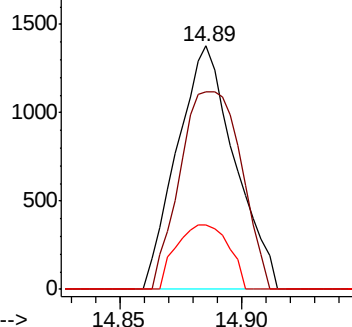
#93
 1,2,4-Trichlorobenzene
 Concen: 0.516 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN061545.D
 Acq: 28 May 2020 21:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 2262
 Ion Ratio Lower Upper
 180 100
 182 86.6 47.8 143.3
 145 24.0 15.5 46.5

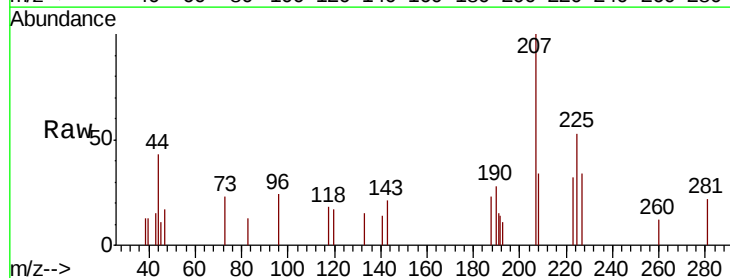


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

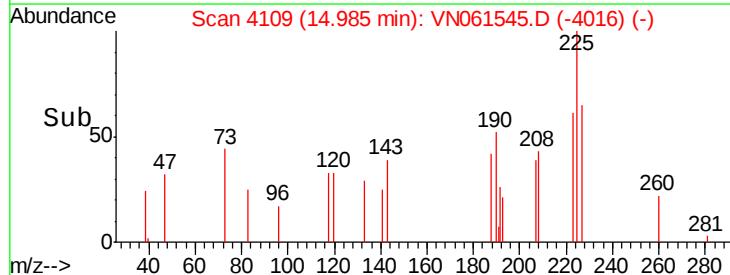
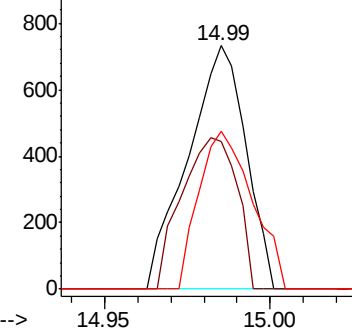


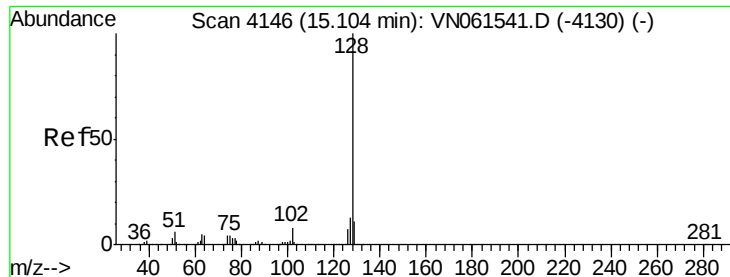
#94
 Hexachlorobutadiene
 Concen: 0.477 ug/l
 RT: 14.99 min Scan# 4109
 Delta R.T. 0.00 min
 Lab File: VN061545.D
 Acq: 28 May 2020 21:40

Tgt Ion:225 Resp: 892
 Ion Ratio Lower Upper
 225 100
 223 59.0 31.9 95.5
 227 59.9 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

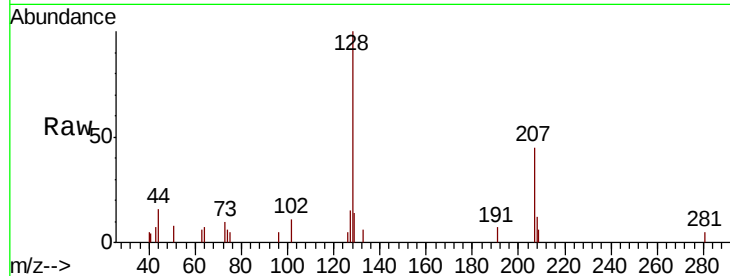




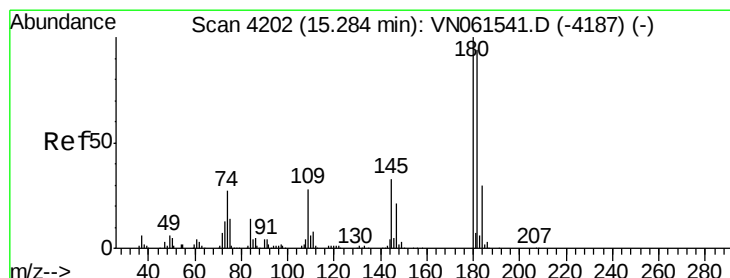
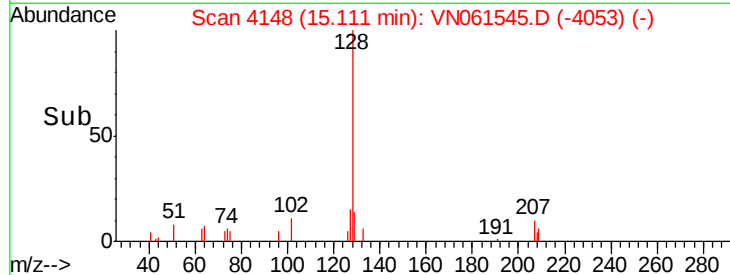
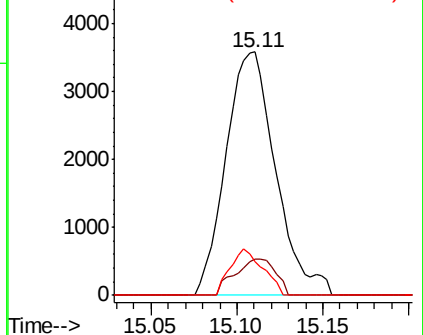
#95
Naphthalene
Concen: 0.541 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 7216
Ion Ratio Lower Upper
128 100
127 12.0 10.0 15.0
129 12.5 8.5 12.7

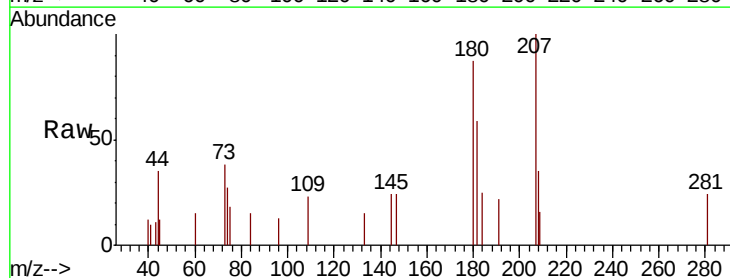


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.531 ug/l
RT: 15.28 min Scan# 4201
Delta R.T. -0.00 min
Lab File: VN061545.D
Acq: 28 May 2020 21:40

Tgt Ion:180 Resp: 2287
Ion Ratio Lower Upper
180 100
182 82.6 47.1 141.3
145 27.6 16.3 48.9



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

