

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057844.D
 Acq On : 10 Sep 2019 8:20
 Operator : JC/SP
 Sample : K4622-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 08:45:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	293373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	513334	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	475855	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246046	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	331895	55.86	ug/l	0.00
Spiked Amount			Recovery	=	111.72%	
35) Dibromofluoromethane	7.58	113	227818	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
50) Toluene-d8	10.09	98	930973	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.40	95	303939	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	

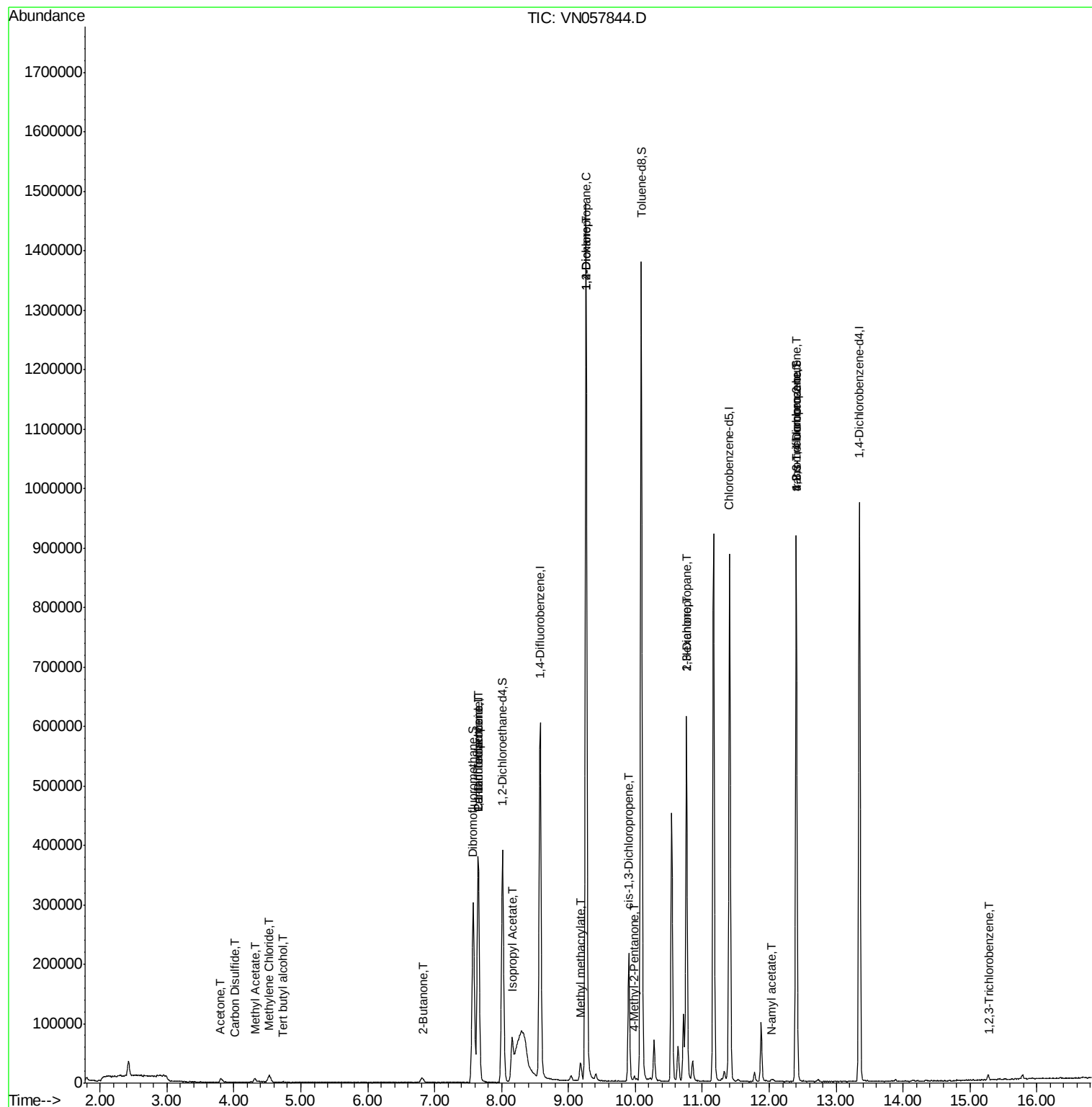
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	280	Below Cal	#	52
11) Tert butyl alcohol	4.73	59	364	0.506	ug/l #	72
16) Acetone	3.80	43	6074	3.118	ug/l	98
17) Carbon Disulfide	4.02	76	338	0.228	ug/l #	75
18) Methyl Acetate	4.31	43	8800	1.694	ug/l	96
20) Methylene Chloride	4.53	84	7549	0.825	ug/l #	88
25) 2-Butanone	6.83	43	2485	0.881	ug/l #	49
31) Cyclohexane	7.65	56	8078	Below Cal	#	27
36) 1,1-Dichloropropene	7.65	75	25823	4.338	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30014	5.522	ug/l #	16
43) Isopropyl Acetate	8.16	43	111946	10.823	ug/l #	84
45) 1,2-Dichloropropane	9.26	63	1149	0.220	ug/l #	44
48) Methyl methacrylate	9.17	41	4462	0.850	ug/l #	13
49) 1,4-Dioxane	9.26	88	62	0.699	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5284	0.863	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	35794	4.892	ug/l #	69
57) 1,3-Dichloropropane	10.76	76	5513	0.669	ug/l #	43
59) 2-Hexanone	10.76	43	94146	20.520	ug/l #	53
74) N-amyl acetate	12.04	43	4229	0.509	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	165305	29.699	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165305	104.512	ug/l #	6
95) Naphthalene	15.12	128	326	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	75	1.013	ug/l #	12

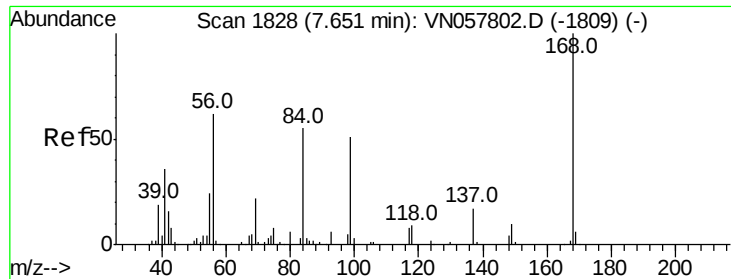
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091019\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 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: VN057844.D

Acq: 10 Sep 2019 8:20

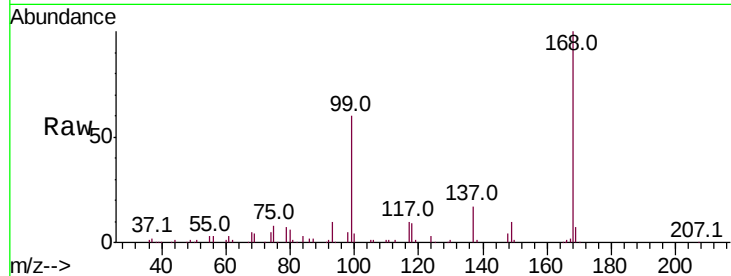
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 293373

Ion Ratio Lower Upper

168 100

99 60.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

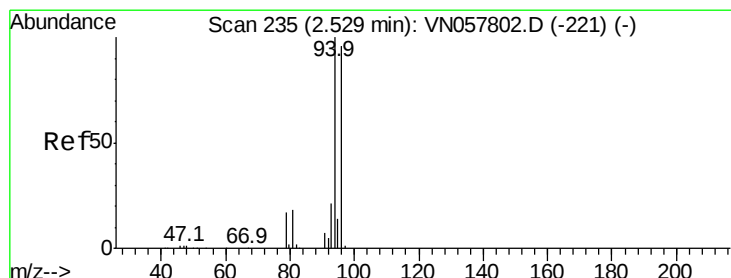
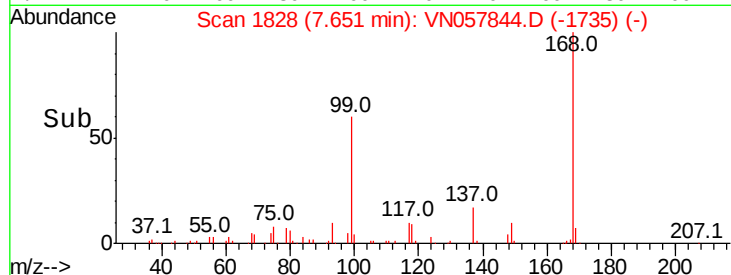
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057844.D

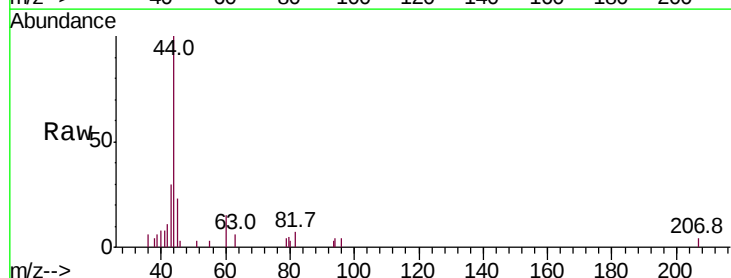
Acq: 10 Sep 2019 8:20

Tgt Ion: 94 Resp: 280

Ion Ratio Lower Upper

94 100

96 48.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

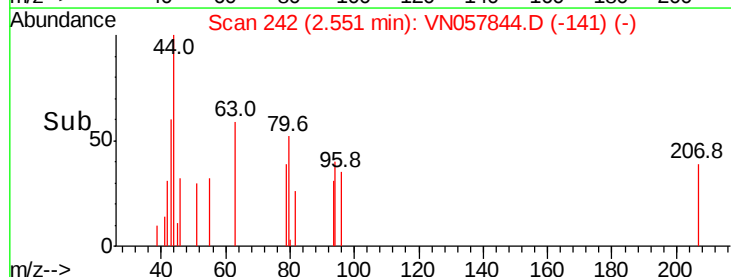
300

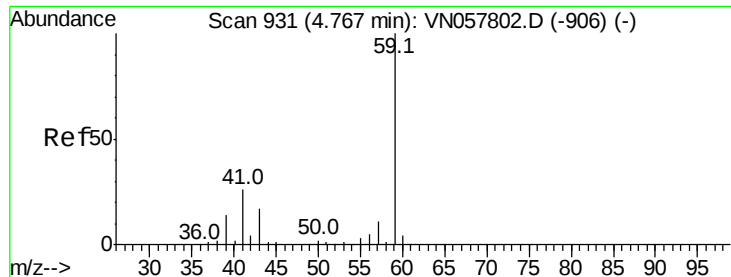
200

100

0

Time-->

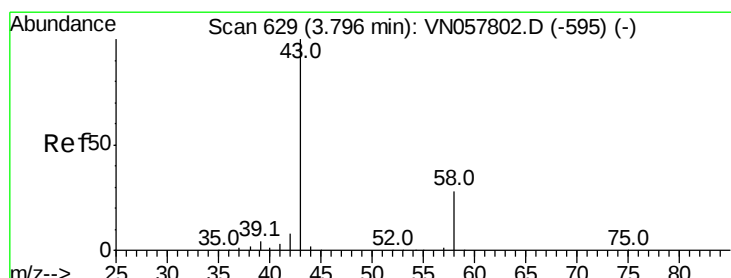
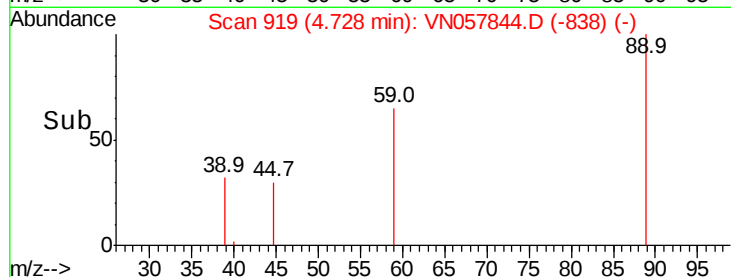
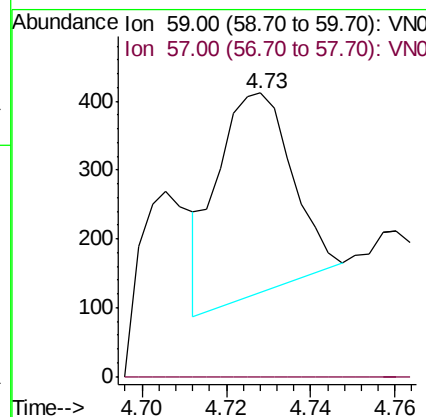
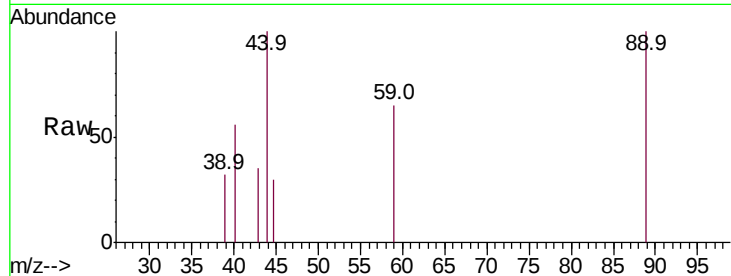




#11
Tert butyl alcohol
Concen: 0.506 ug/l
RT: 4.73 min Scan# 919
Delta R.T. -0.04 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

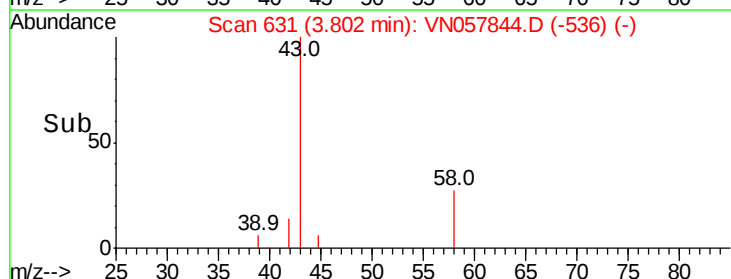
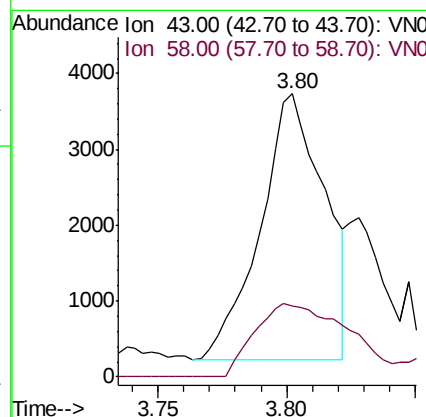
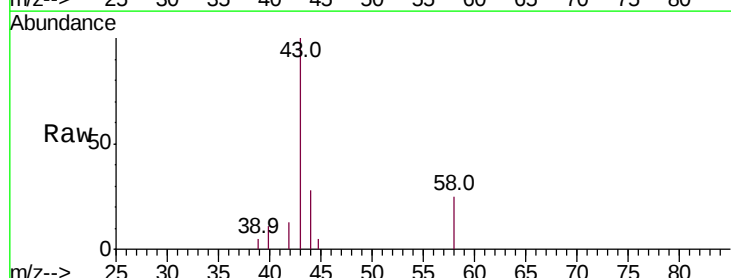
Instrument :
MSVOA_N
ClientSampled :

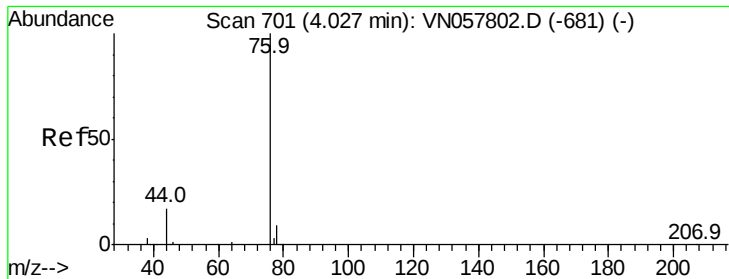
Tot Ion: 59 Resp: 364
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 3.118 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Tgt Ion: 43 Resp: 6074
Ion Ratio Lower Upper
43 100
58 26.7 22.2 33.2

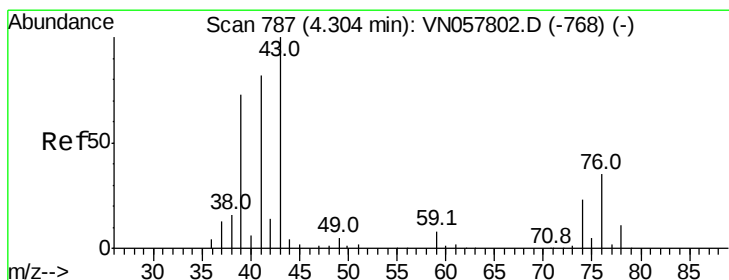
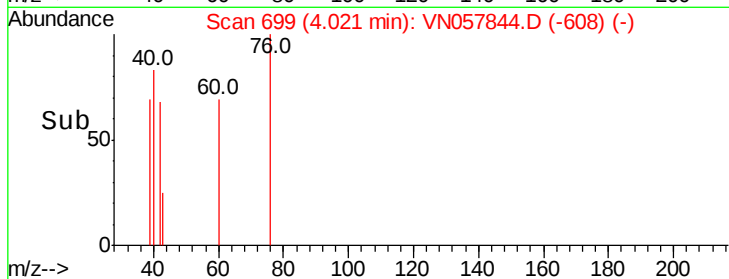
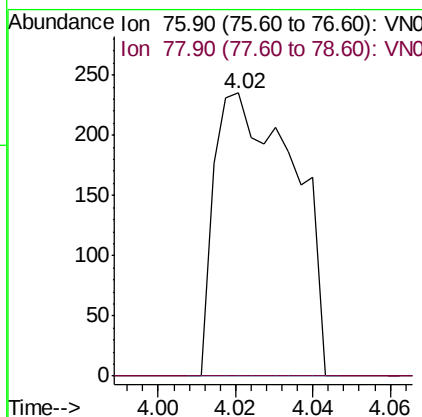
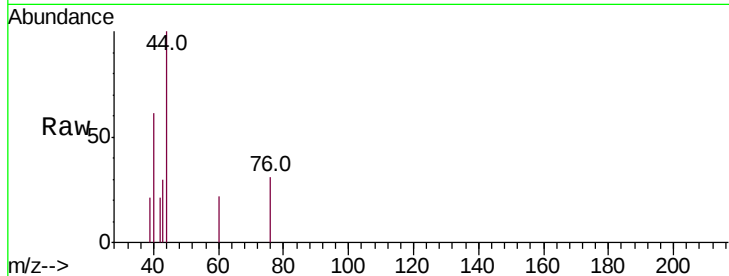




#17
Carbon Disulfide
Concen: 0.228 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.01 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

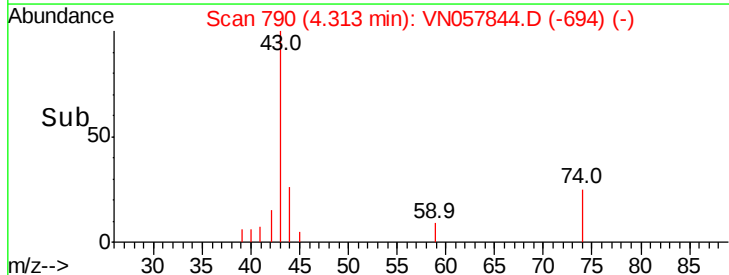
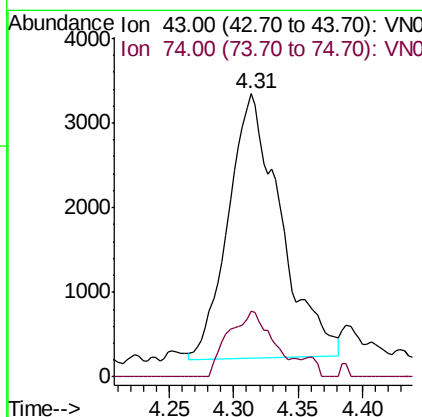
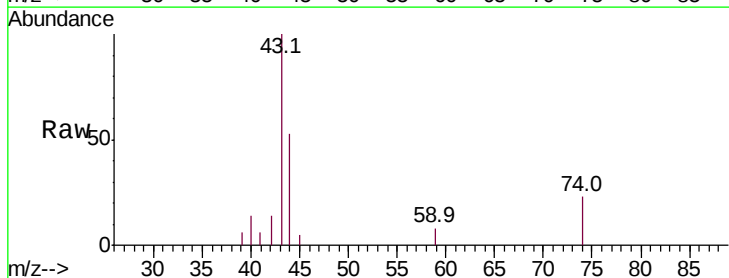
Instrument :
MSVOA_N
ClientSampled :

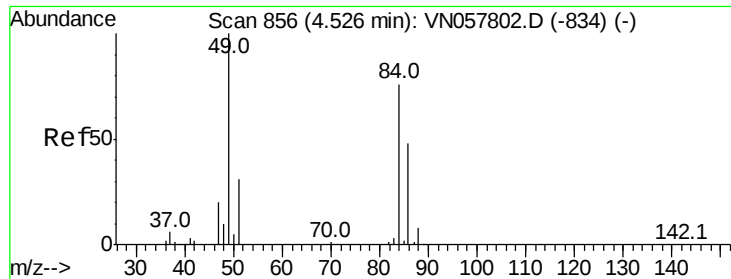
Tot Ion: 76 Resp: 338
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 1.694 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Tgt Ion: 43 Resp: 8800
Ion Ratio Lower Upper
43 100
74 20.5 17.9 26.9

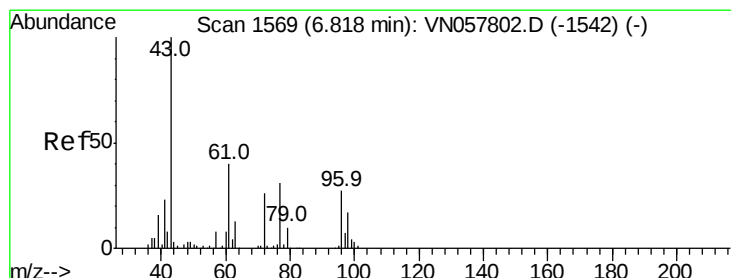
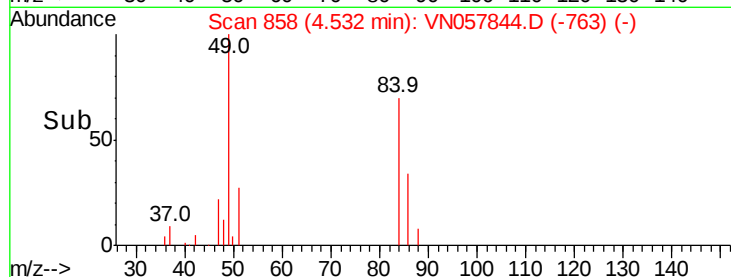
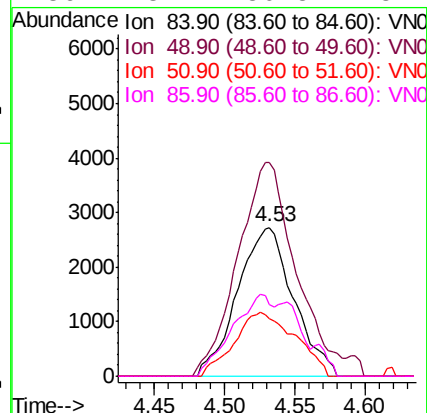
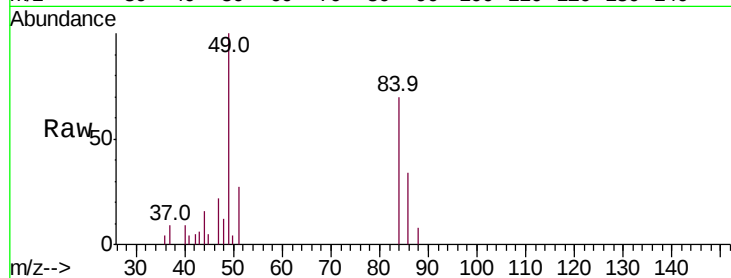




#20
Methvlene Chloride
Concen: 0.825 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

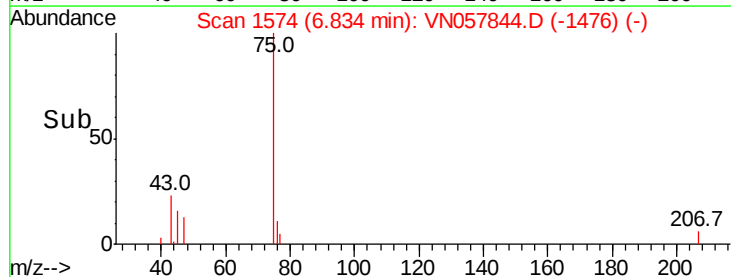
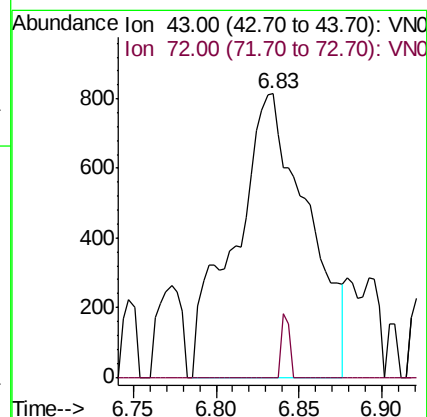
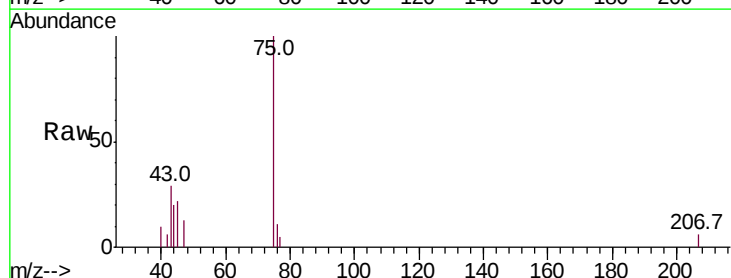
Instrument :
MSVOA_N
ClientSampleId :

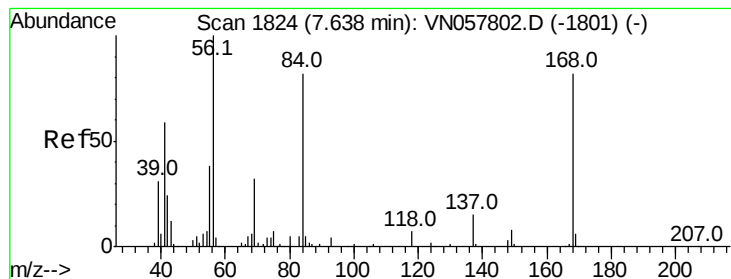
Tot Ion: 84 Resp: 7549
Ion Ratio Lower Upper
84 100
49 143.6 104.8 157.2
51 38.8 33.0 49.4
86 48.2 50.5 75.7#



#25
2-Butanone
Concen: 0.881 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Tgt Ion: 43 Resp: 2485
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057844.D

Acq: 10 Sep 2019 8:20

Instrument :
MSVOA_N
ClientSampleId :

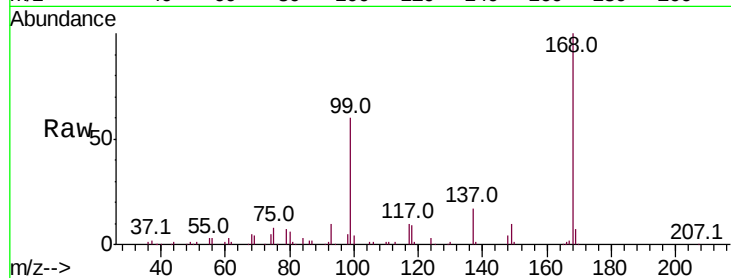
Tot Ion: 56 Resp: 8078

Ion Ratio Lower Upper

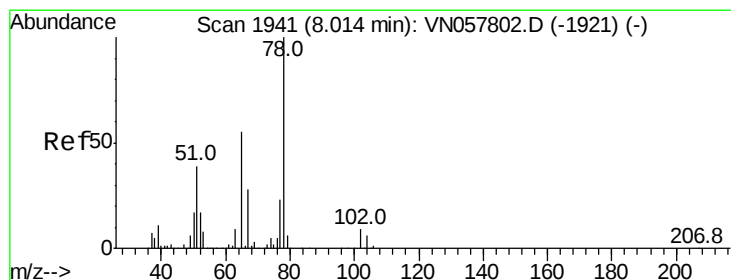
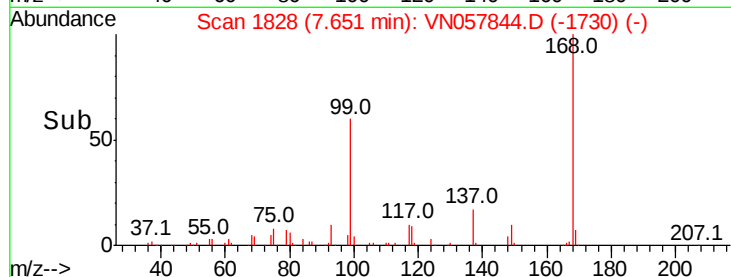
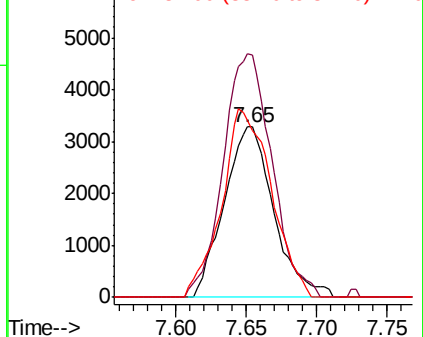
56 100

69 142.9 25.9 38.9#

84 103.5 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 55.855 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057844.D

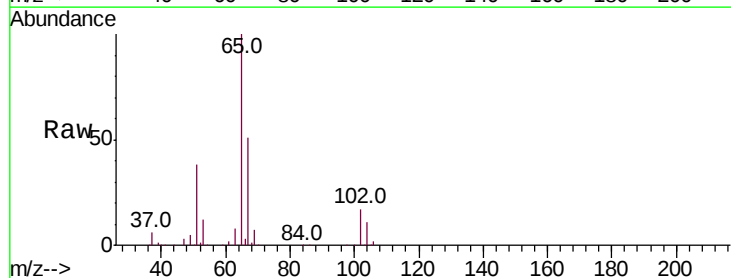
Acq: 10 Sep 2019 8:20

Tgt Ion: 65 Resp: 331895

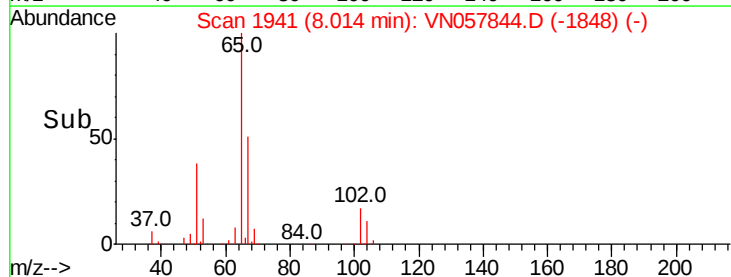
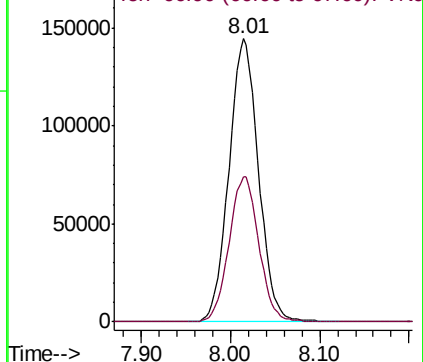
Ion Ratio Lower Upper

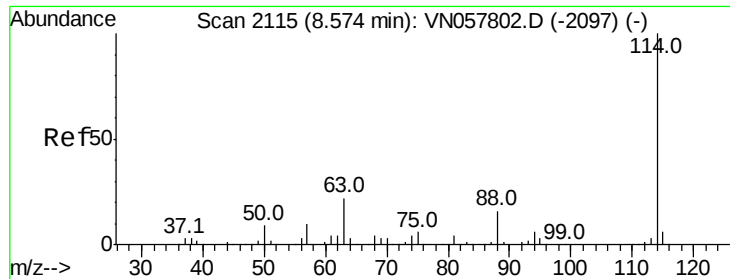
65 100

67 51.6 0.0 104.0



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

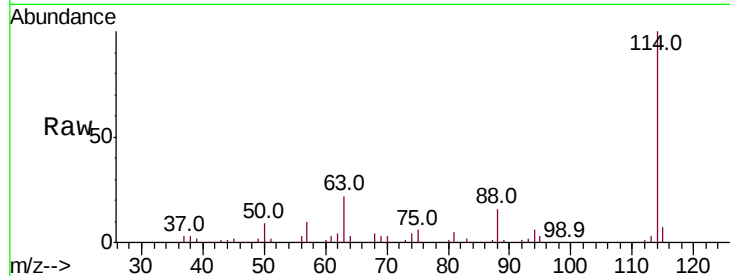




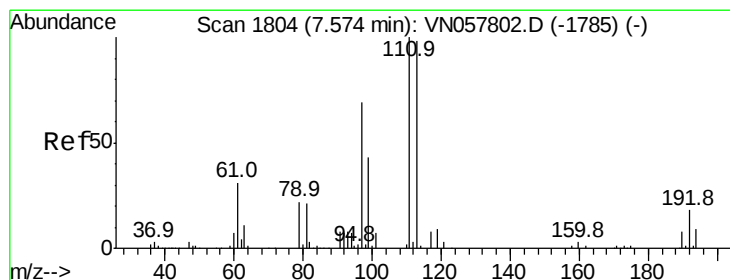
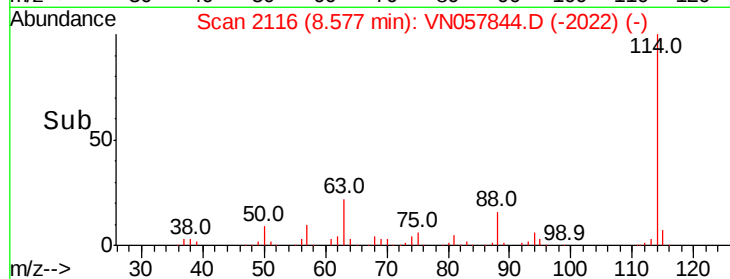
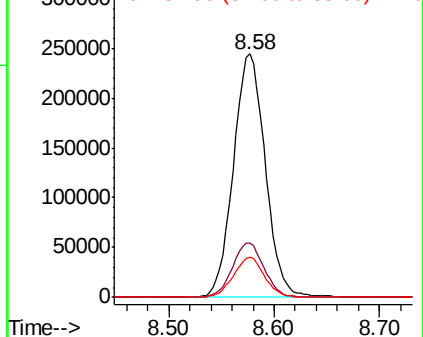
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057844.D
 Acq: 10 Sep 2019 8:20

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.0
88	16.5	0.0	31.4

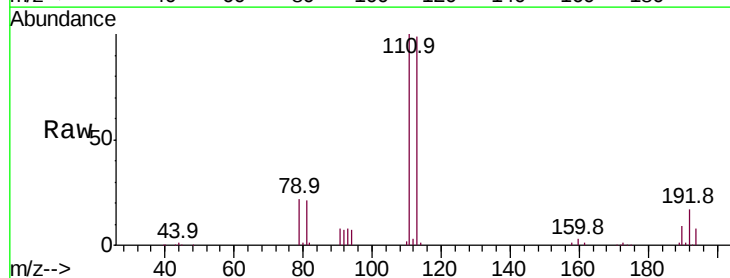


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

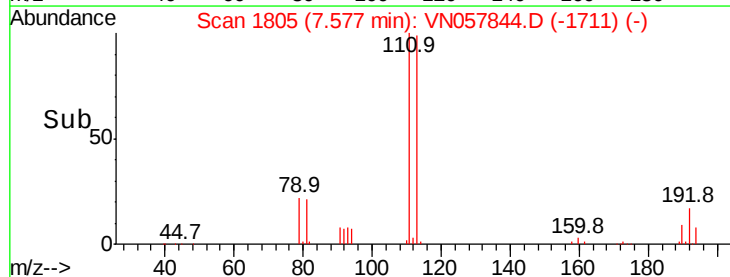
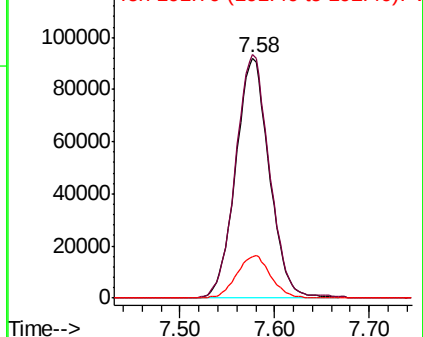


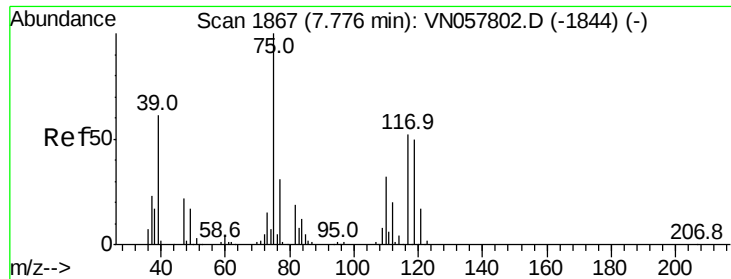
#35
 Dibromofluoromethane
 Concen: 48.084 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057844.D
 Acq: 10 Sep 2019 8:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.3	121.9
192	17.9	14.6	22.0



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

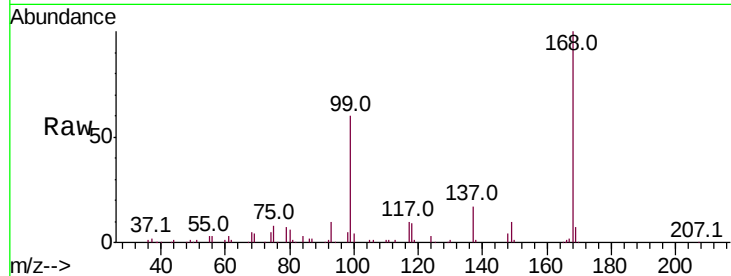




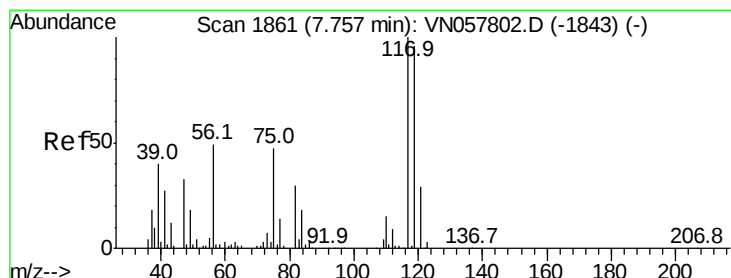
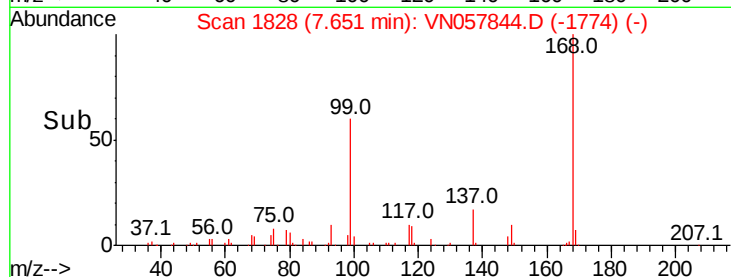
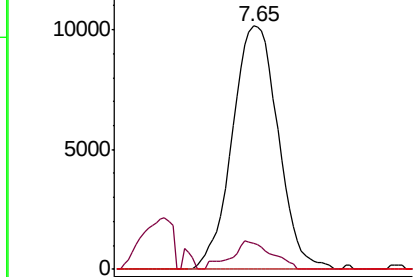
#36
 1,1-Dichloropropene
 Concen: 4.338 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057844.D
 Acq: 10 Sep 2019 8:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.3	48.9#
77	0.0	25.0	37.4#

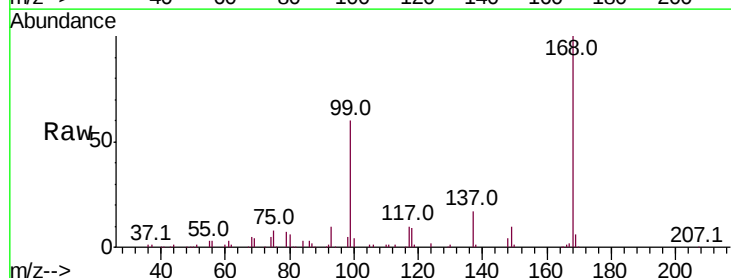


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

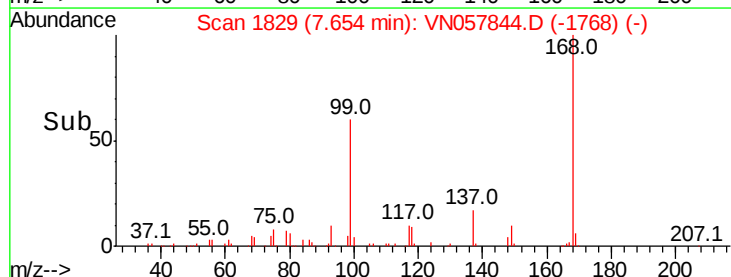
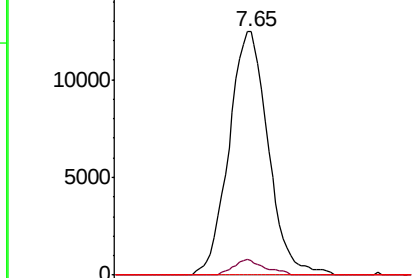


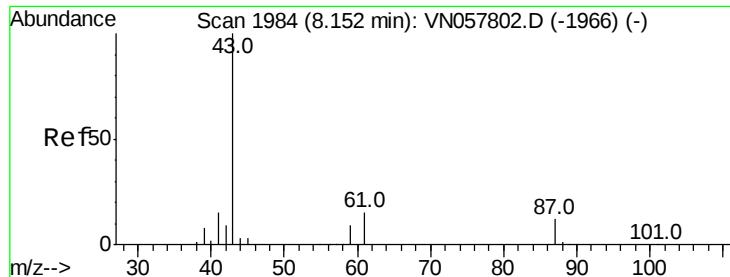
#38
 Carbon Tetrachloride
 Concen: 5.522 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057844.D
 Acq: 10 Sep 2019 8:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 10.823 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057844.D

Acq: 10 Sep 2019 8:20

Instrument :

MSVOA_N

ClientSampleId :

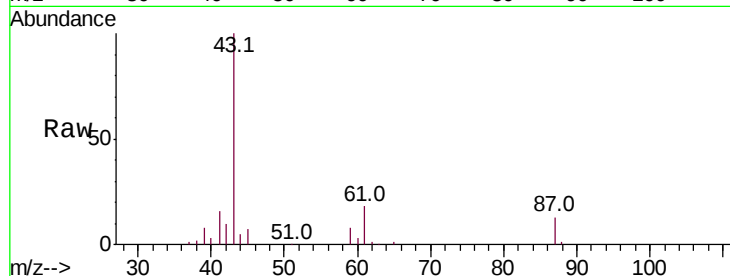
Tot Ion: 43 Resp: 111946

Ion Ratio Lower Upper

43 100

61 15.2 20.1 30.1#

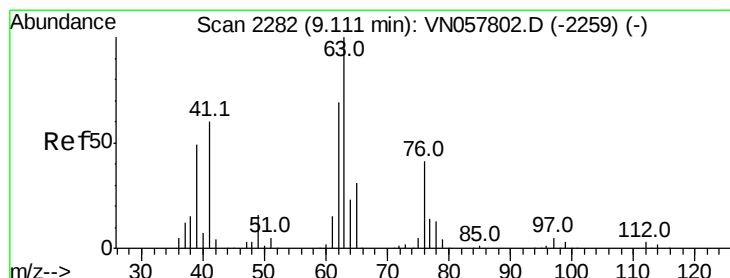
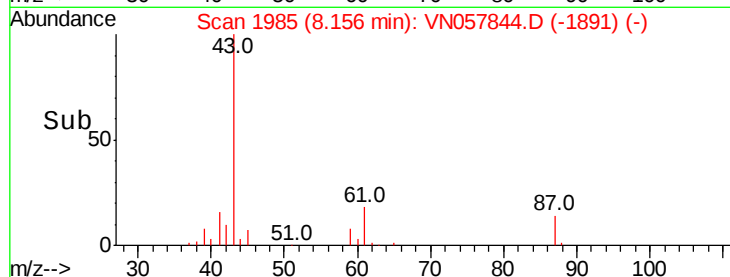
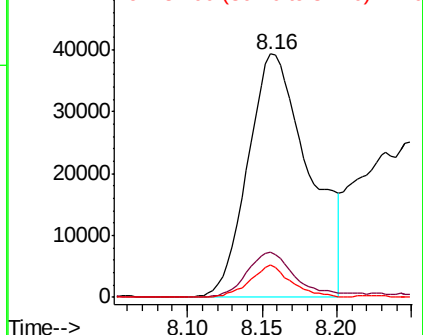
87 8.9 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.220 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN057844.D

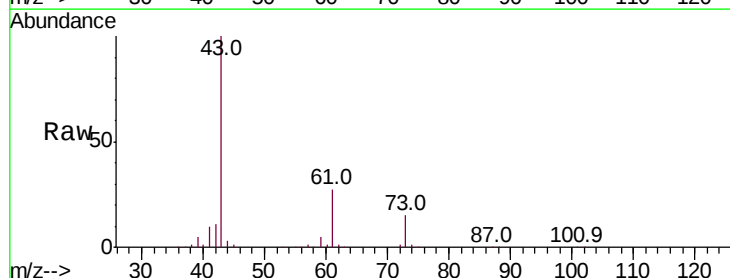
Acq: 10 Sep 2019 8:20

Tgt Ion: 63 Resp: 1149

Ion Ratio Lower Upper

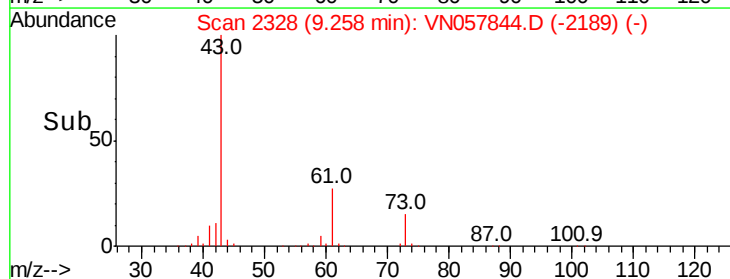
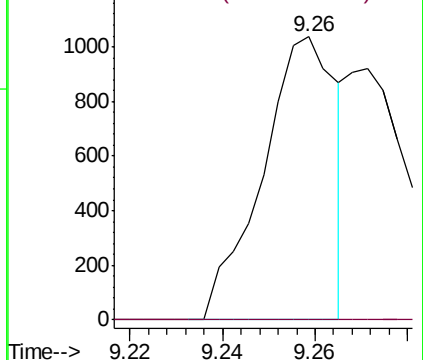
63 100

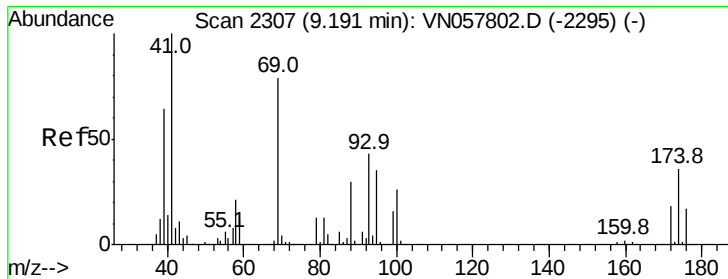
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

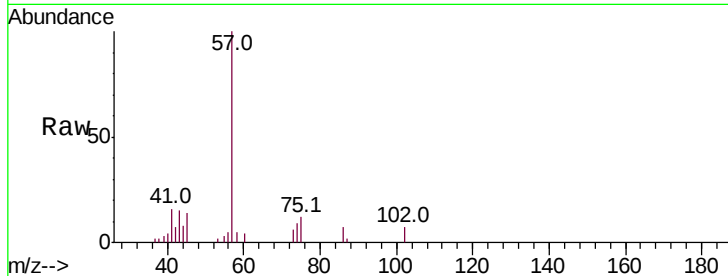




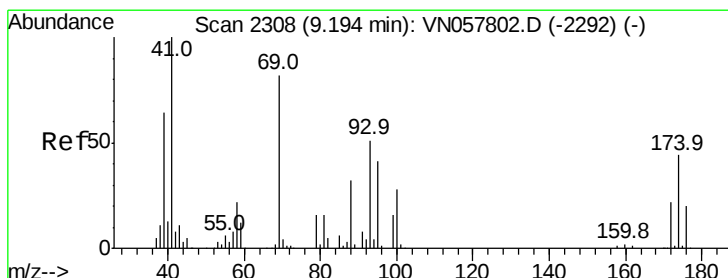
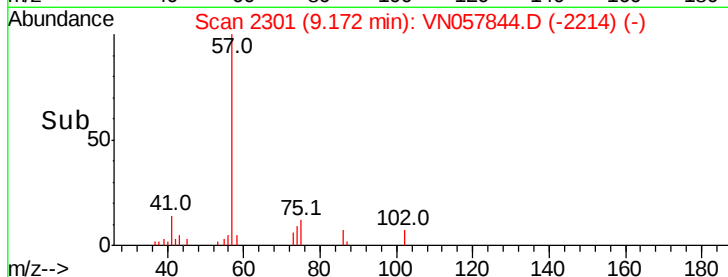
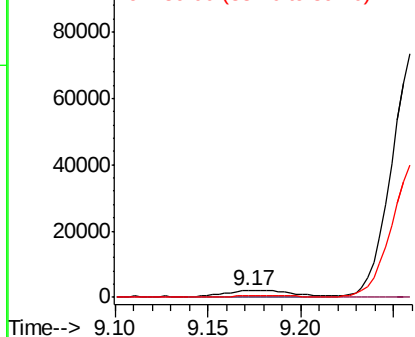
#48
Methyl methacrylate
Concen: 0.850 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 4462
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

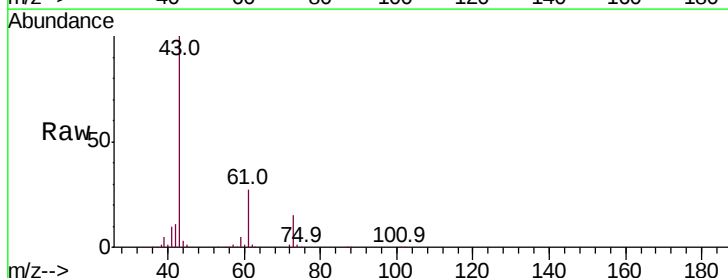


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

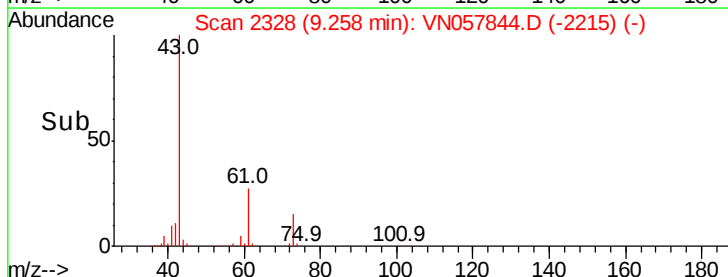
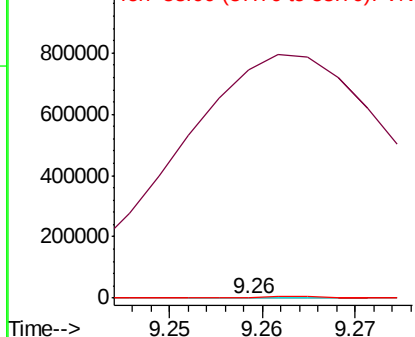


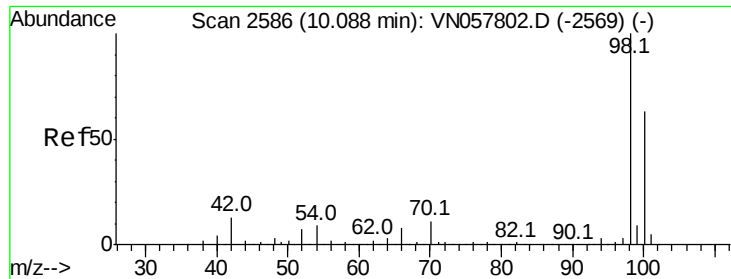
#49
1,4-Dioxane
Concen: 0.699 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 2385421.0 28.5 42.7#
58 11391.9 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 50.610 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057844.D

Acq: 10 Sep 2019 8:20

Instrument :

MSVOA_N

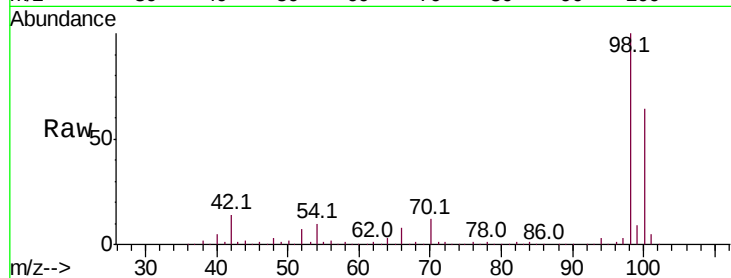
ClientSampleId :

Tot Ion: 98 Resp: 930973

Ion Ratio Lower Upper

98 100

100 63.8 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

500000

400000

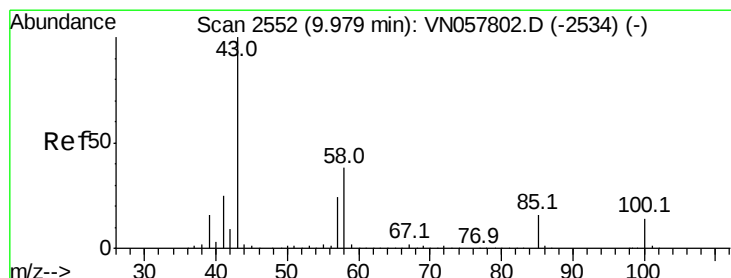
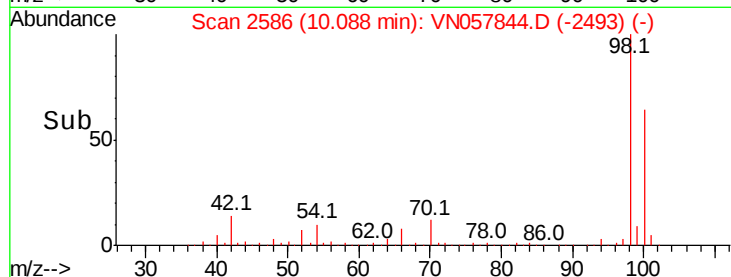
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.863 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057844.D

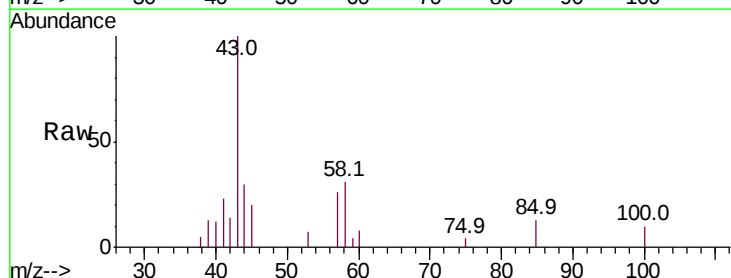
Acq: 10 Sep 2019 8:20

Tgt Ion: 43 Resp: 5284

Ion Ratio Lower Upper

43 100

58 36.8 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

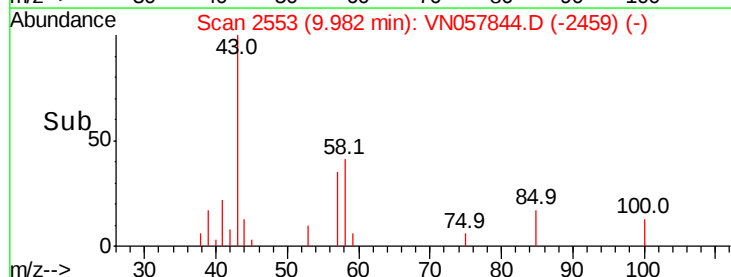
15000

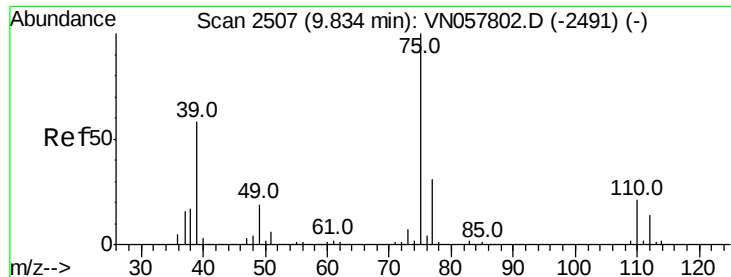
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.892 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057844.D

Acq: 10 Sep 2019 8:20

Instrument :

MSVOA_N

ClientSampleId :

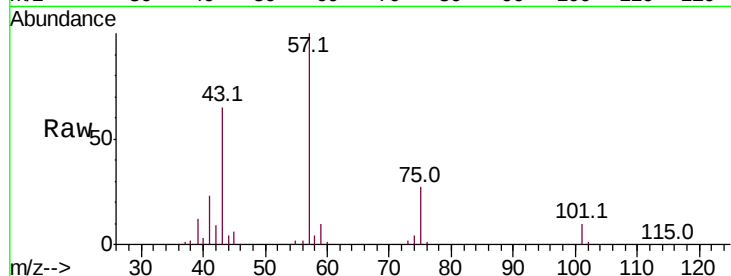
Tot Ion: 75 Resp: 35794

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

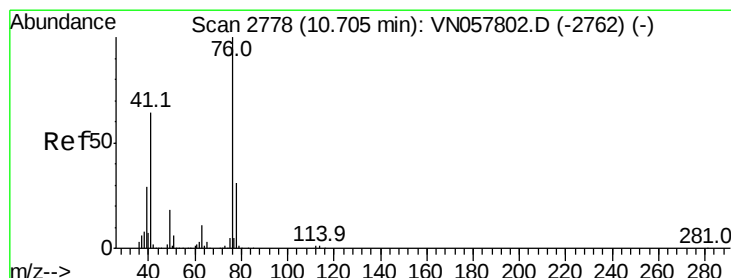
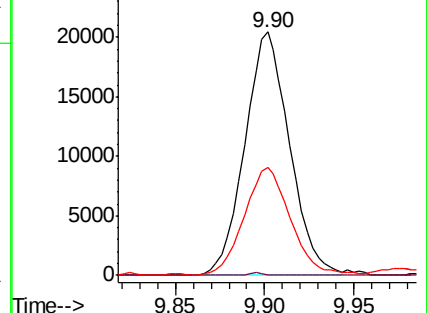
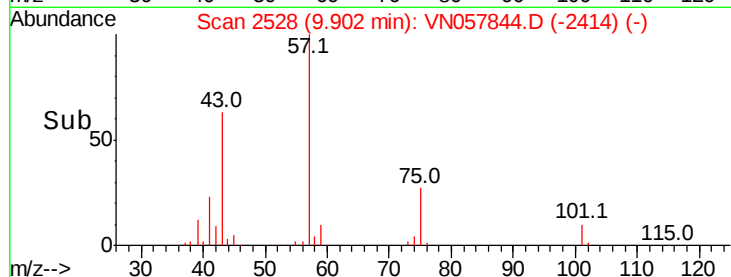
39 44.4 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.669 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057844.D

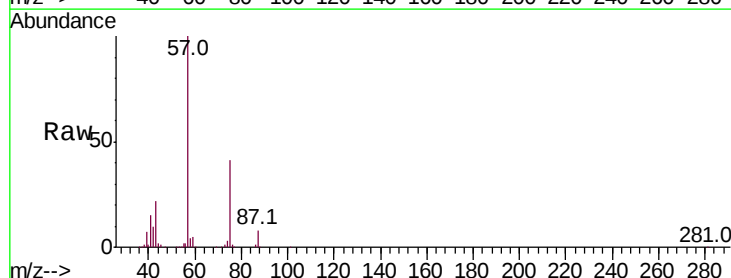
Acq: 10 Sep 2019 8:20

Tgt Ion: 76 Resp: 5513

Ion Ratio Lower Upper

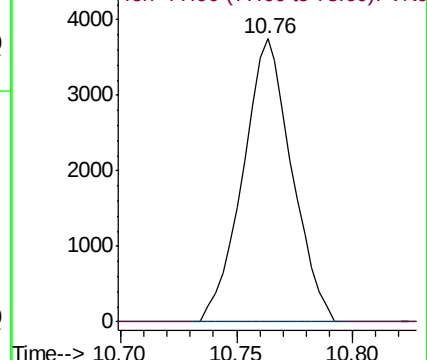
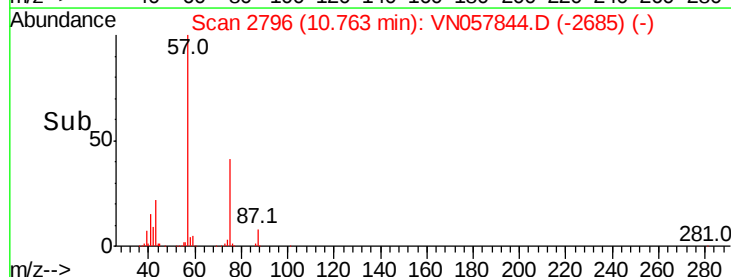
76 100

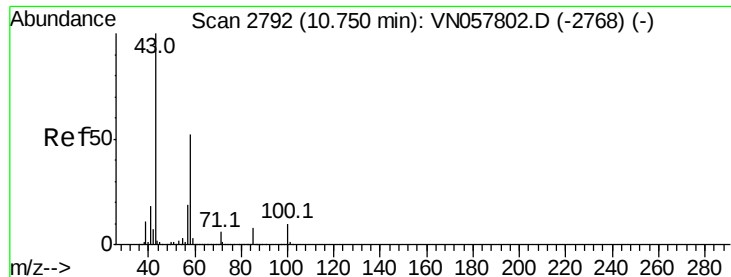
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

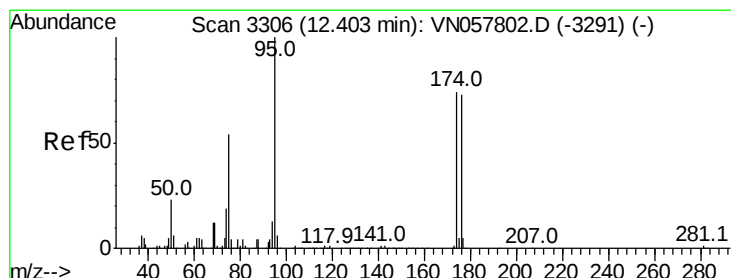
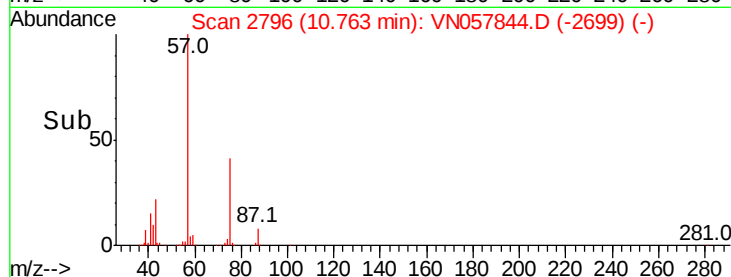
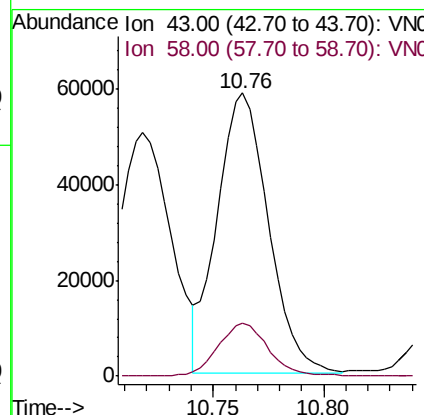
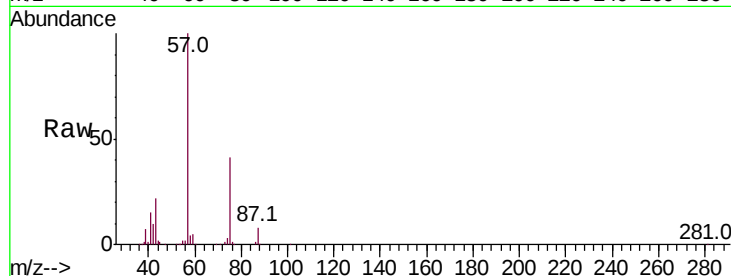




#59
2-Hexanone
Concen: 20.520 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

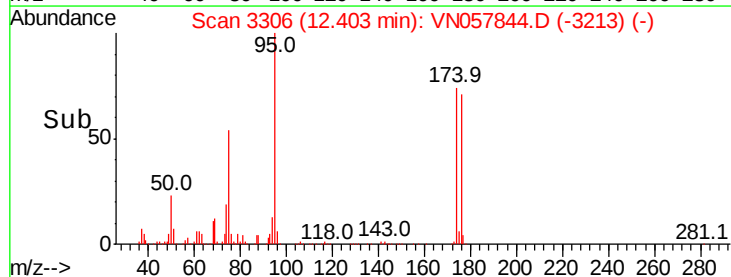
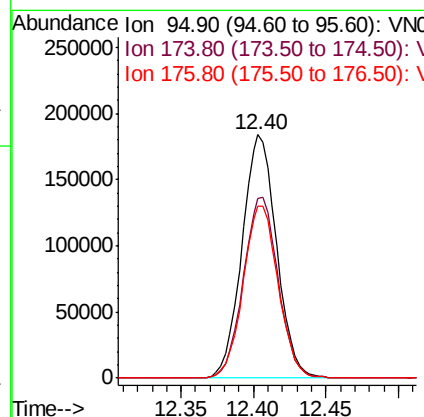
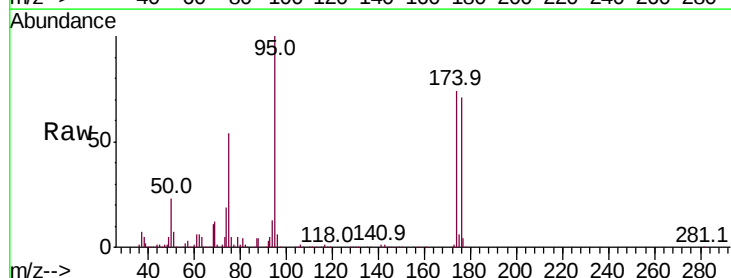
Instrument :
MSVOA_N
ClientSampleId :

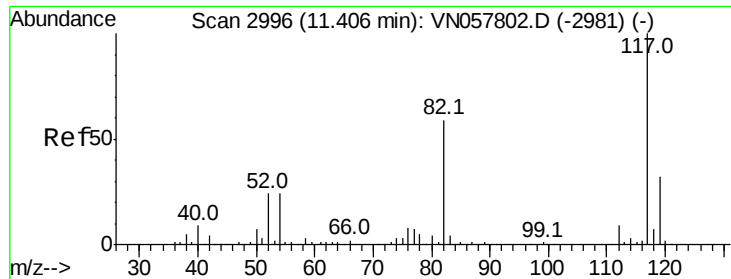
Tot Ion: 43 Resp: 94146
Ion Ratio Lower Upper
43 100
58 18.6 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 43.357 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Tgt Ion: 95 Resp: 303939
Ion Ratio Lower Upper
95 100
174 75.0 0.0 150.2
176 72.1 0.0 146.0

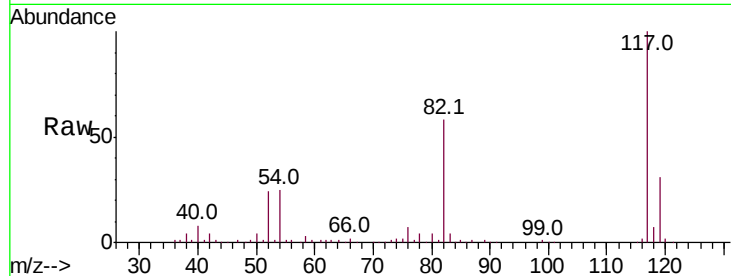




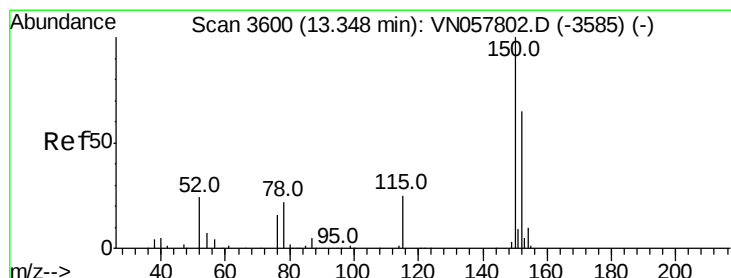
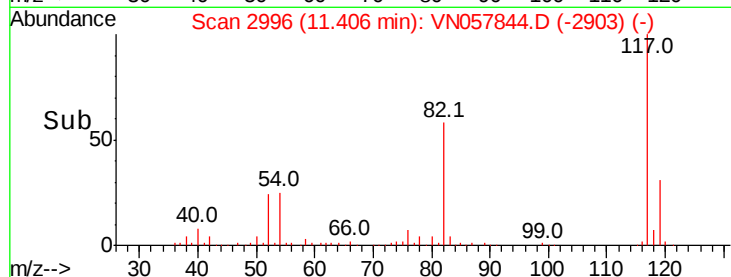
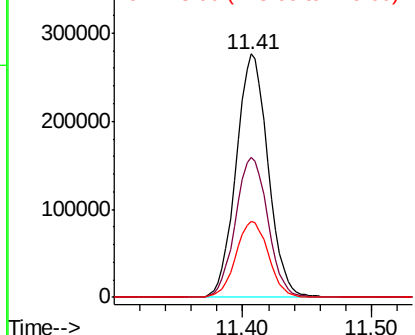
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 475855
Ion Ratio Lower Upper
117 100
82 57.6 47.2 70.8
119 31.2 25.3 37.9

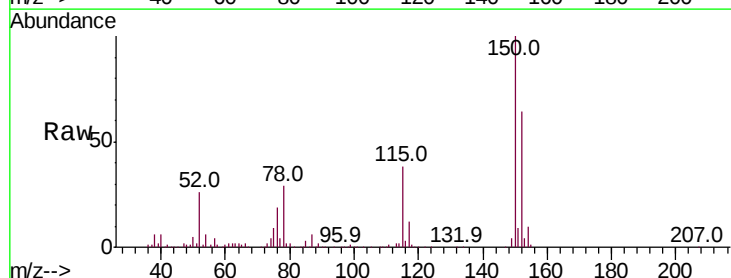


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

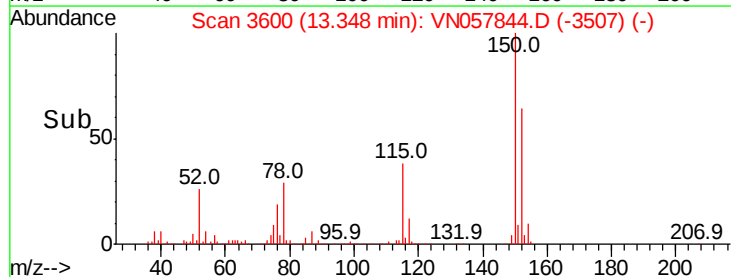
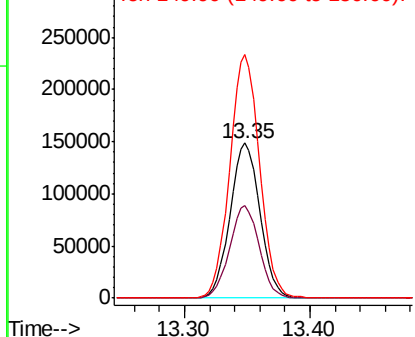


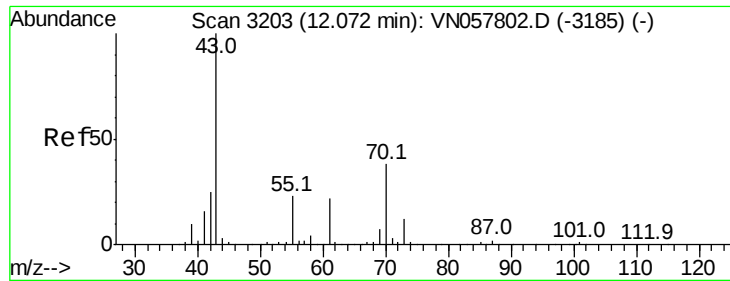
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Tgt Ion:152 Resp: 246046
Ion Ratio Lower Upper
152 100
115 59.3 30.3 91.0
150 156.7 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.509 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057844.D

Acq: 10 Sep 2019 8:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4229

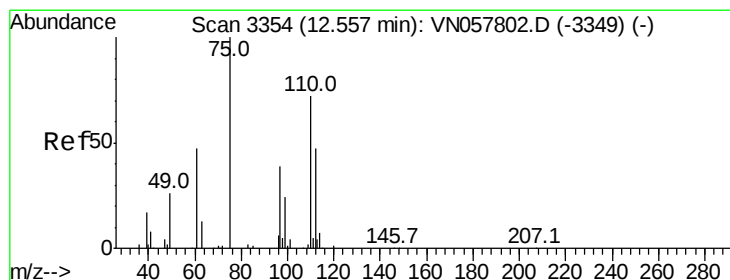
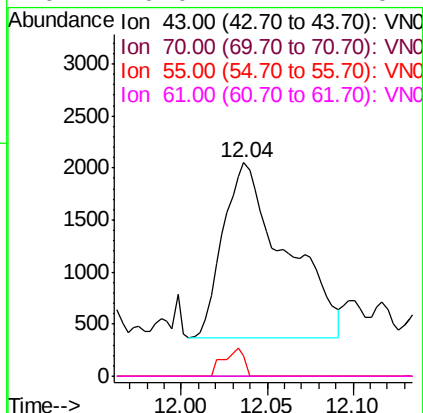
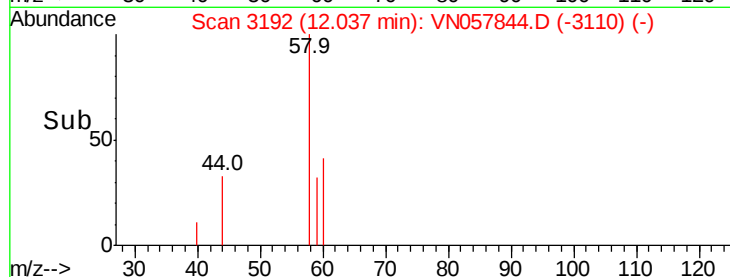
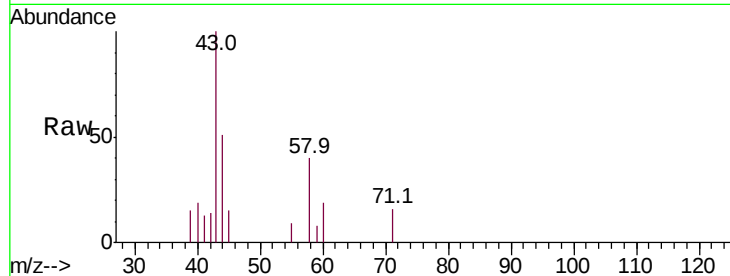
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.2 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 29.699 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057844.D

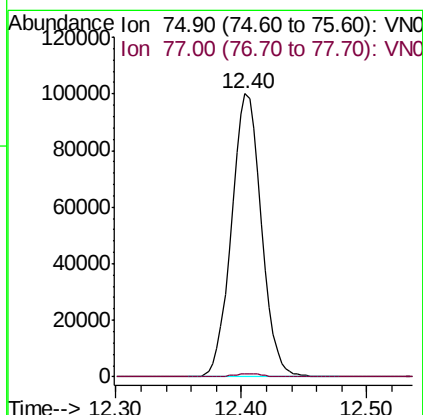
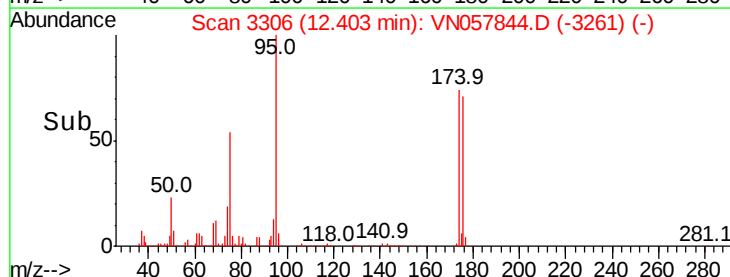
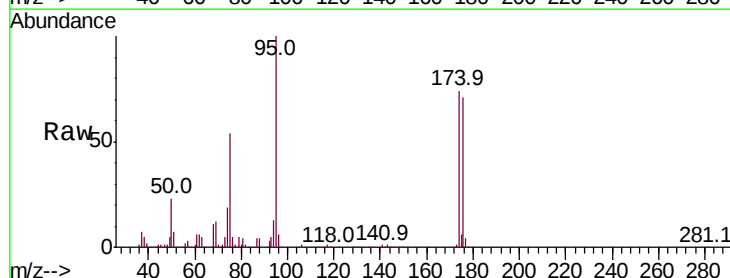
Acq: 10 Sep 2019 8:20

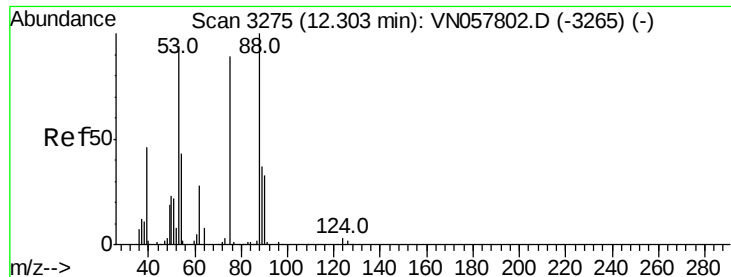
Tgt Ion: 75 Resp: 165305

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

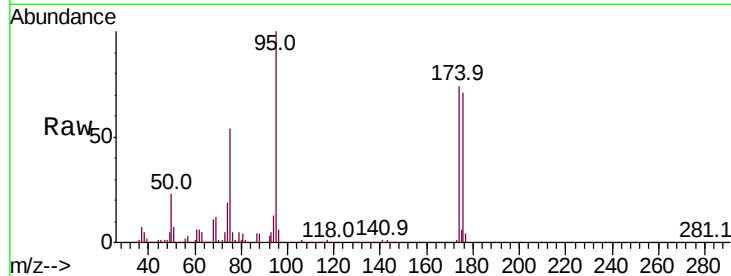




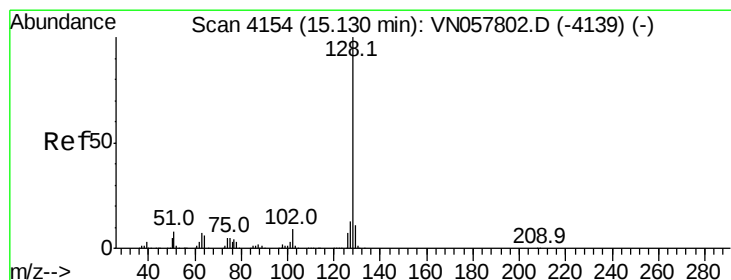
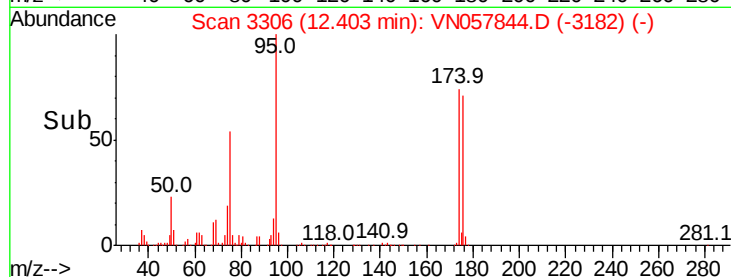
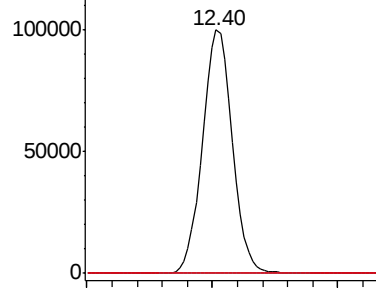
#81
trans-1,4-Dichloro-2-butene
Concen: 104.512 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 165305
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#

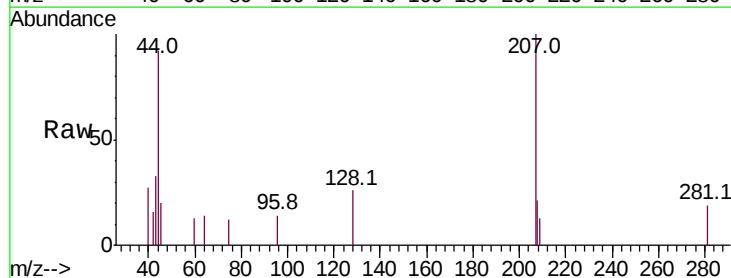


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D
Ion 53.00 (52.70 to 53.70): VN057802.D
Ion 88.90 (88.60 to 89.60): VN057802.D

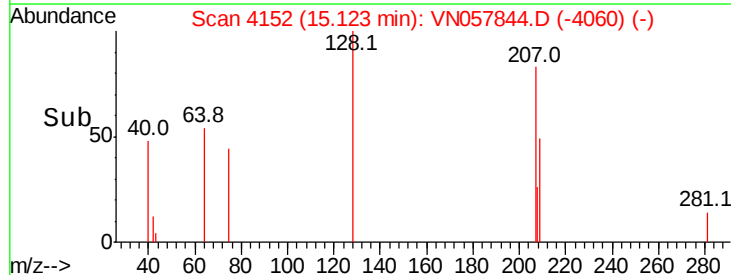
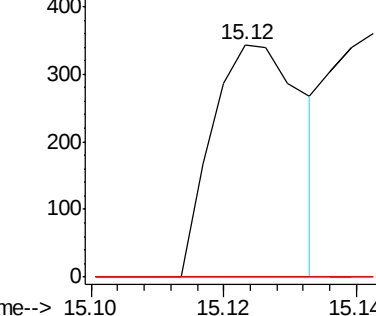


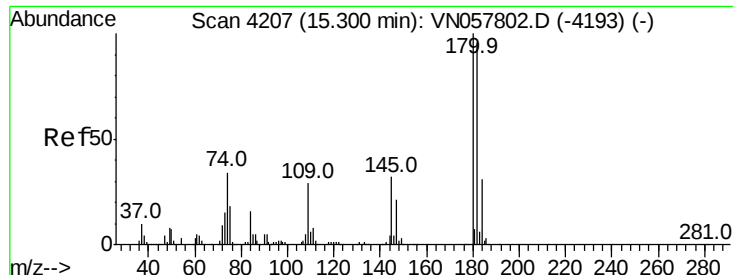
#95
Naphthalene
Concen: Below Cal
RT: 15.12 min Scan# 4152
Delta R.T. -0.01 min
Lab File: VN057844.D
Acq: 10 Sep 2019 8:20

Tgt Ion: 128 Resp: 326
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN057802.D
Ion 127.00 (126.70 to 127.70): VN057802.D
Ion 129.00 (128.70 to 129.70): VN057802.D





#96

1,2,3-Trichlorobenzene

Concen: 1.013 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057844.D

Acq: 10 Sep 2019 8:20

Instrument :

MSVOA_N

ClientSampleId :

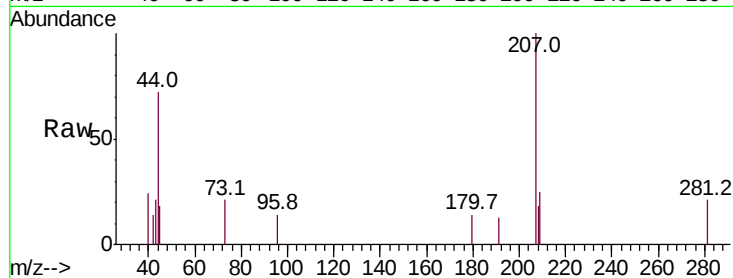
Tot Ion:180 Resp: 75

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.8#

145 0.0 16.3 48.8#



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

