

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120919\
 Data File : VN059532.D
 Acq On : 9 Dec 2019 16:57
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 09 17:38:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 09 16:19:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	253775	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	416032	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	373592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	166168	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	183932	58.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.82%	
35) Dibromofluoromethane	7.57	113	129382	51.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.30%	
50) Toluene-d8	10.08	98	488993	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
62) 4-Bromofluorobenzene	12.40	95	170787	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	

Target Compounds

					Qvalue
3) Chloromethane	2.04	50	1400	0.367	ug/l 90
4) Vinyl Chloride	2.17	62	636	0.248	ug/l # 43
5) Bromomethane	2.54	94	1270	0.803	ug/l 99
10) Methyl Iodide	3.92	142	1829	0.553	ug/l # 86
11) Tert butyl alcohol	4.73	59	406	0.704	ug/l # 71
13) Acrolein	3.59	56	568	1.281	ug/l # 76
15) Acrylonitrile	4.97	53	1016	0.651	ug/l 88
16) Acetone	3.79	43	6575	3.175	ug/l 94
17) Carbon Disulfide	4.03	76	12499	1.423	ug/l 100
20) Methylene Chloride	4.53	84	2814	0.865	ug/l 87
21) trans-1,2-Dichloroethene	5.01	96	720	0.250	ug/l # 69
23) Vinyl Acetate	5.88	43	2668	0.350	ug/l # 74
25) 2-Butanone	6.82	43	2901	1.239	ug/l 96
29) Tetrahydrofuran	7.19	42	1304	0.882	ug/l # 69
31) Cyclohexane	7.64	56	6411	1.241	ug/l # 17
36) 1,1-Dichloropropene	7.64	75	21258	5.014	ug/l # 50
38) Carbon Tetrachloride	7.64	117	26264	6.410	ug/l # 16
41) Methacrylonitrile	7.18	41	881	0.451	ug/l # 100
42) 1,2-Dichloroethane	8.11	62	973	0.227	ug/l # 78
44) Trichloroethene	8.82	130	758	0.235	ug/l 91
49) 1,4-Dioxane	9.19	88	461	9.803	ug/l # 59
51) 4-Methyl-2-Pentanone	9.98	43	2338	0.557	ug/l 88
53) t-1,3-Dichloropropene	10.37	75	1195	0.245	ug/l # 39
58) 2-Chloroethyl Vinyl ether	9.69	63	1436	1.152	ug/l # 64
59) 2-Hexanone	10.75	43	3208	1.015	ug/l 88
64) Tetrachloroethene	10.63	164	743	0.245	ug/l # 80
65) Chlorobenzene	11.43	112	2354	0.296	ug/l 92
68) m/p-Xylenes	11.62	106	1701	0.324	ug/l 82
70) Styrene	11.96	104	1815	0.227	ug/l 94
75) 1,1,2,2-Tetrachloroethane	12.50	83	1059	0.258	ug/l # 87
76) 1,2,3-Trichloropropane	12.40	75	91198	22.464	ug/l # 100
77) Bromobenzene	12.52	156	1294	0.403	ug/l 89
78) n-propylbenzene	12.59	91	3526	0.237	ug/l 95
79) 2-Chlorotoluene	12.67	91	2344	0.261	ug/l 90

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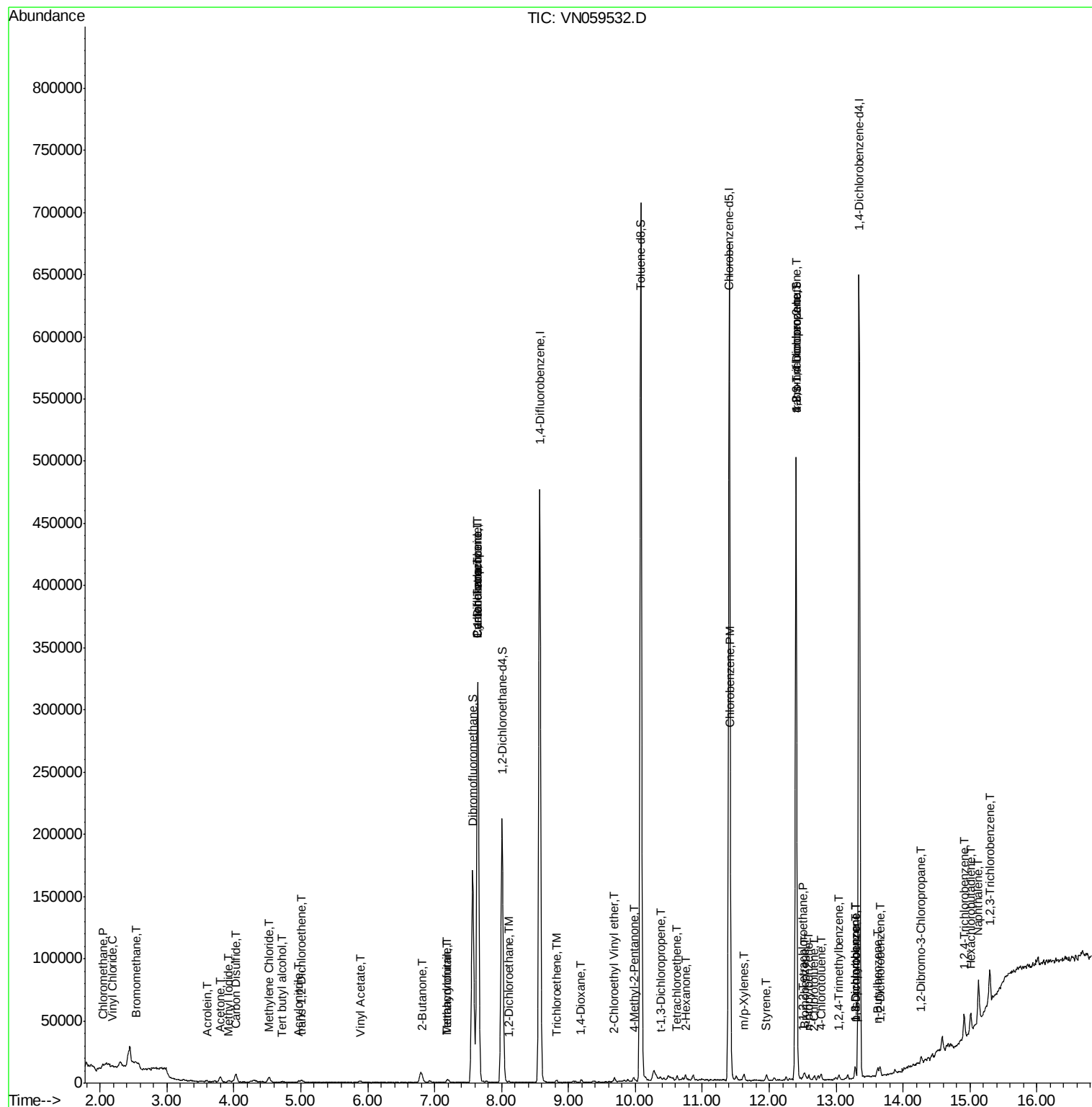
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) trans-1,4-Dichloro-2-buten	12.40	75	91198	60.969	ug/l #	16
82) 4-Chlorotoluene	12.78	91	3671	0.394	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	2294	0.218	ug/l	100
86) p-Isopropyltoluene	13.29	119	2493	0.224	ug/l	92
87) 1,3-Dichlorobenzene	13.28	146	2995	0.525	ug/l	94
88) 1,4-Dichlorobenzene	13.28	146	2995	0.520	ug/l	93
89) n-Butylbenzene	13.62	91	4086	0.409	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	3305	0.605	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1648	1.661	ug/l	61
93) 1,2,4-Trichlorobenzene	14.91	180	6072	1.767	ug/l	96
94) Hexachlorobutadiene	15.01	225	2512	1.174	ug/l	97
95) Naphthalene	15.13	128	26109	2.591	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	8061	2.193	ug/l	94

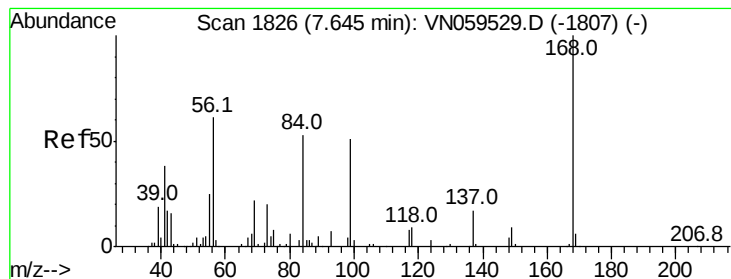
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120919\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

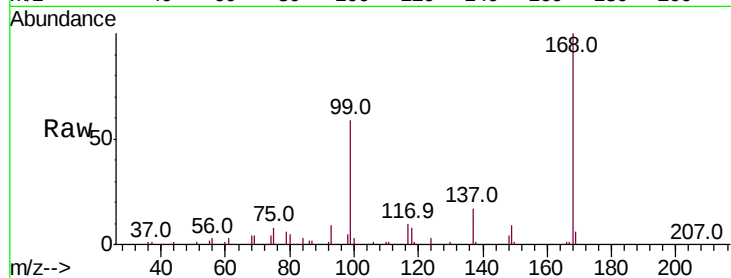
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 253775

Ion Ratio Lower Upper

168 100

99 58.9 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

120000

100000

80000

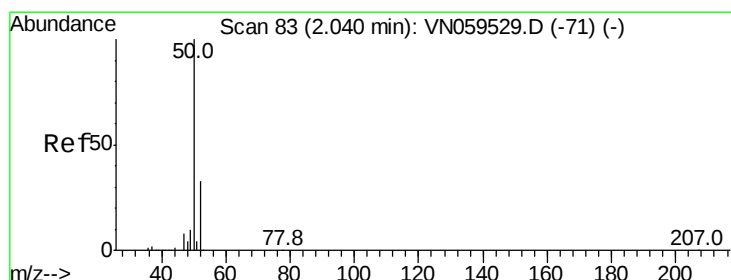
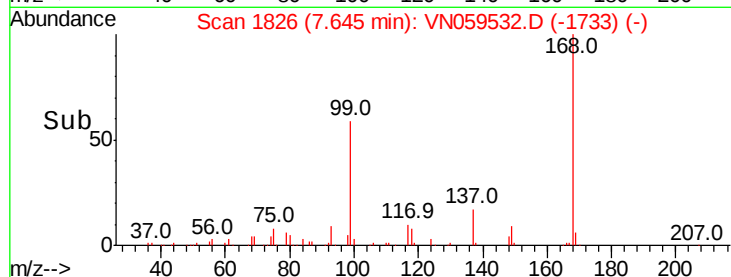
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.367 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059532.D

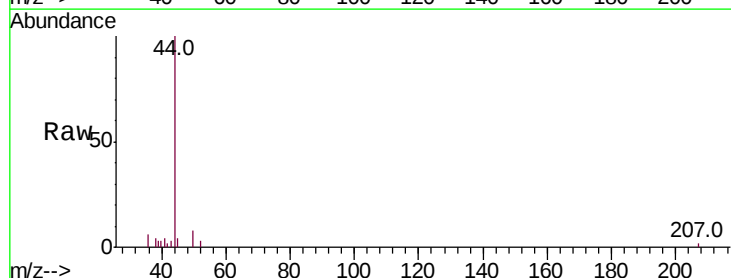
Acq: 9 Dec 2019 16:57

Tgt Ion: 50 Resp: 1400

Ion Ratio Lower Upper

50 100

52 38.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

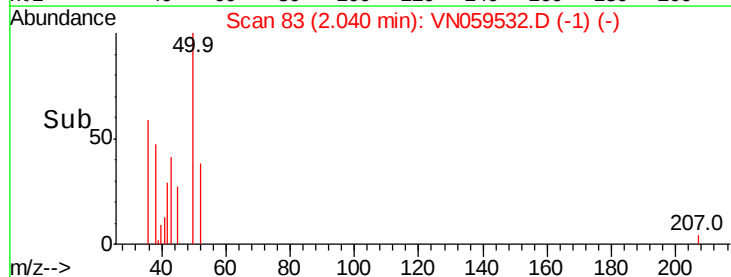
600

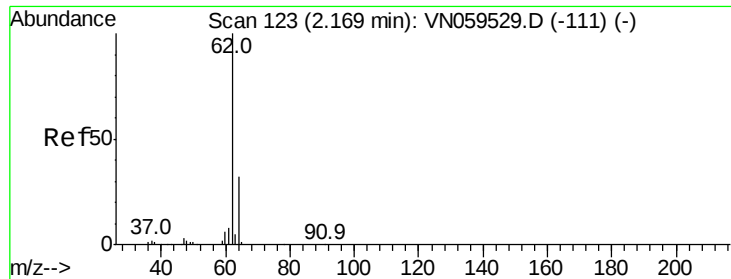
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.248 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

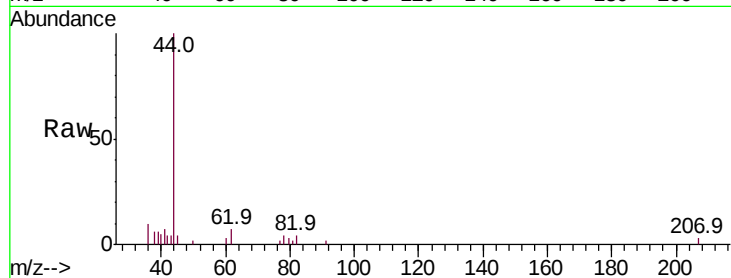
ClientSampleId :

Tot Ion: 62 Resp: 636

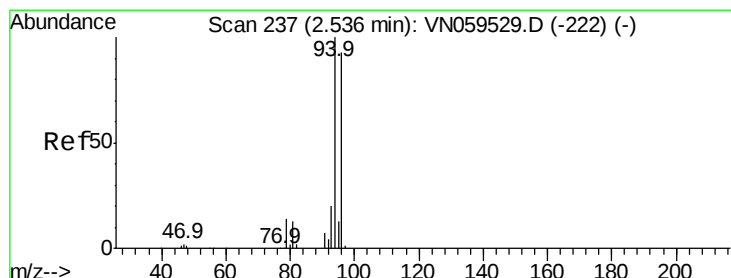
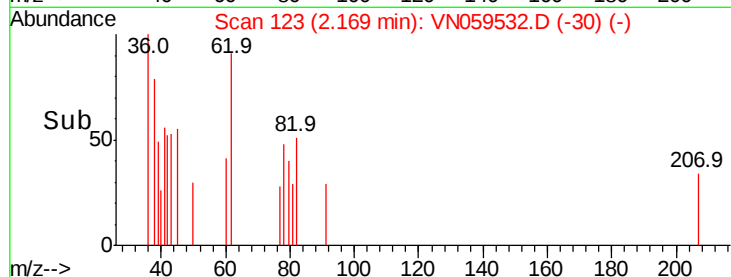
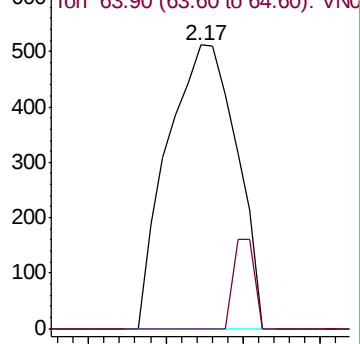
Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VN0



#5

Bromomethane

Concen: 0.803 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN059532.D

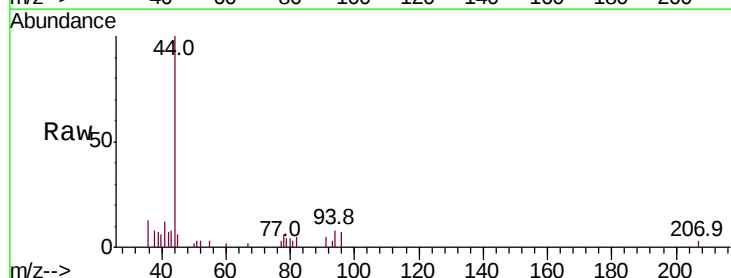
Acq: 9 Dec 2019 16:57

Tgt Ion: 94 Resp: 1270

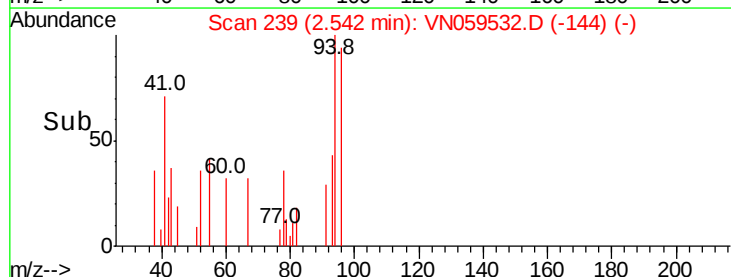
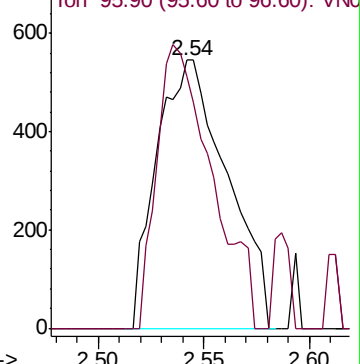
Ion Ratio Lower Upper

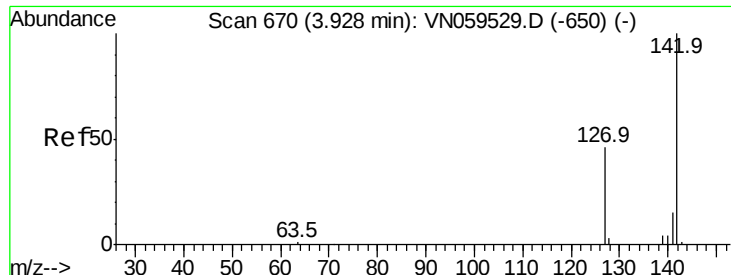
94 100

96 94.0 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

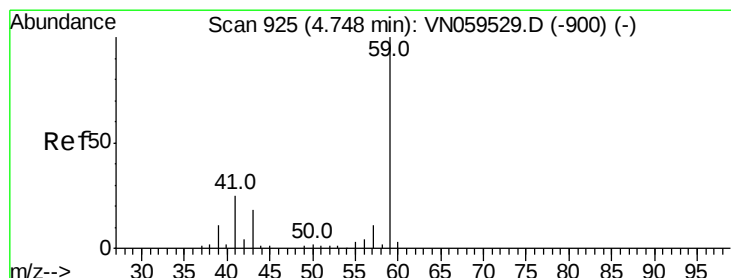
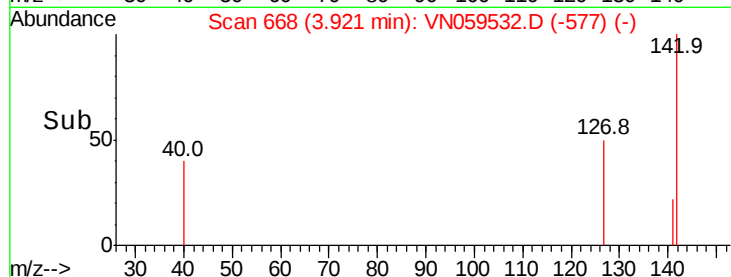
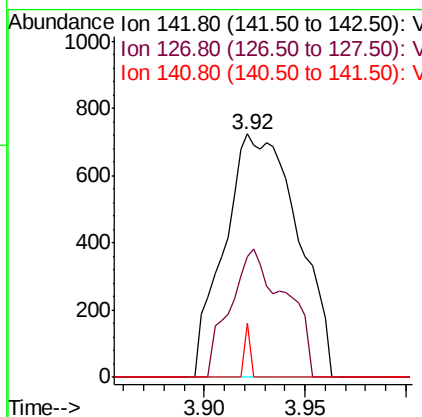
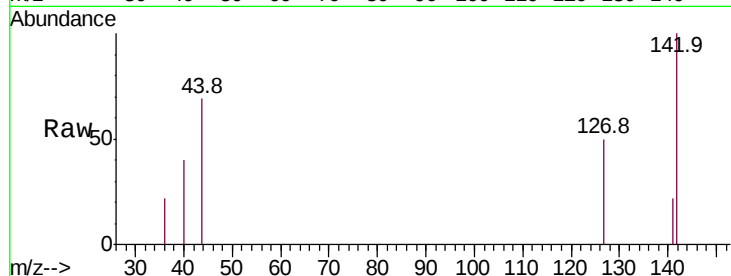




#10
Methvl Iodide
Concen: 0.553 ug/l
RT: 3.92 min Scan# 668
Delta R.T. -0.01 min
Lab File: VN059532.D
Acq: 9 Dec 2019 16:57

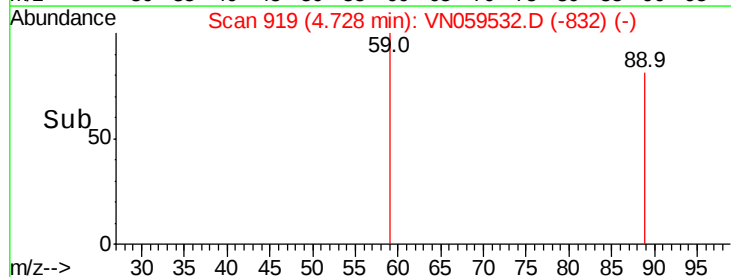
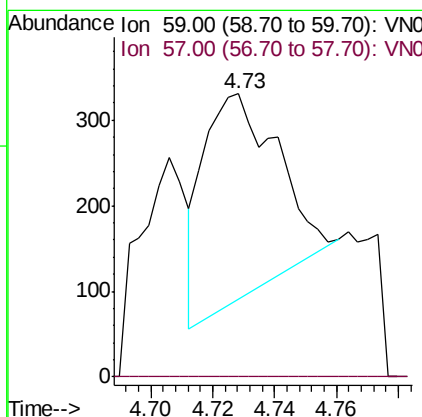
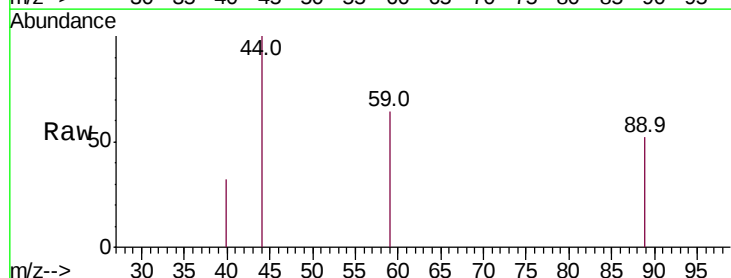
Instrument :
MSVOA_N
ClientSampleId :

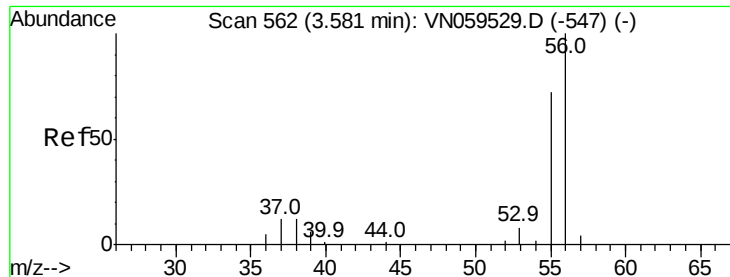
Tot Ion:142 Resp: 1829
Ion Ratio Lower Upper
142 100
127 40.1 36.6 54.8
141 1.7 11.6 17.4#



#11
Tert butyl alcohol
Concen: 0.704 ug/l
RT: 4.73 min Scan# 919
Delta R.T. -0.02 min
Lab File: VN059532.D
Acq: 9 Dec 2019 16:57

Tgt Ion: 59 Resp: 406
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#13

Acrolein

Concen: 1.281 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.01 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

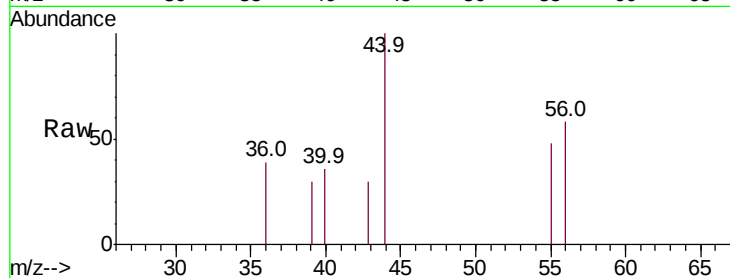
ClientSampled :

Tot Ion: 56 Resp: 568

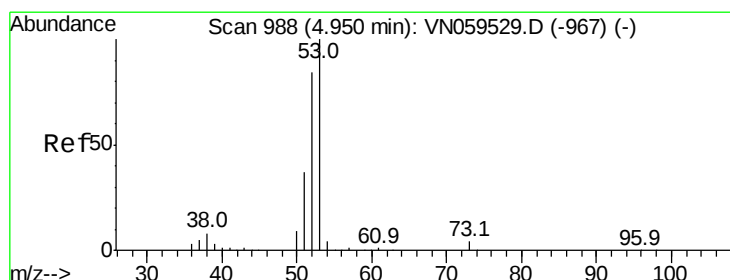
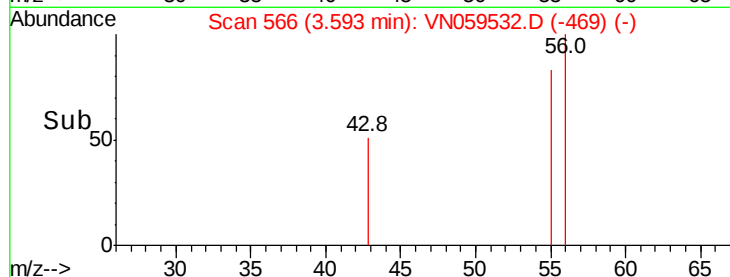
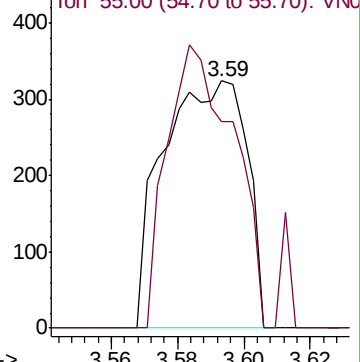
Ion Ratio Lower Upper

56 100

55 91.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#15

Acrylonitrile

Concen: 0.651 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.02 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

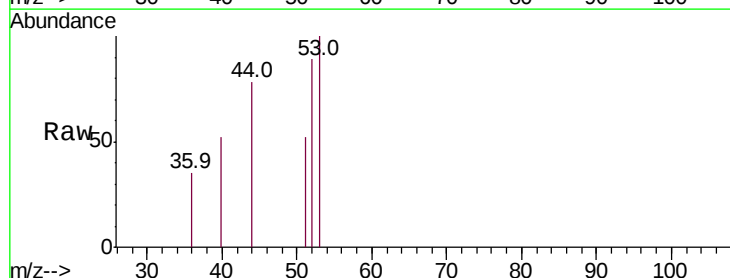
Tgt Ion: 53 Resp: 1016

Ion Ratio Lower Upper

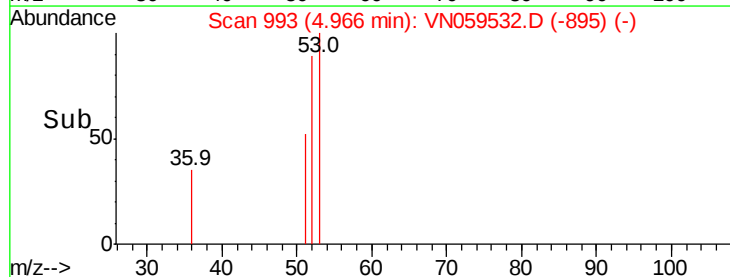
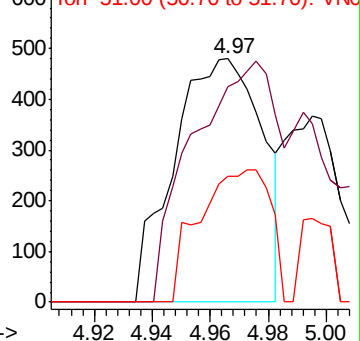
53 100

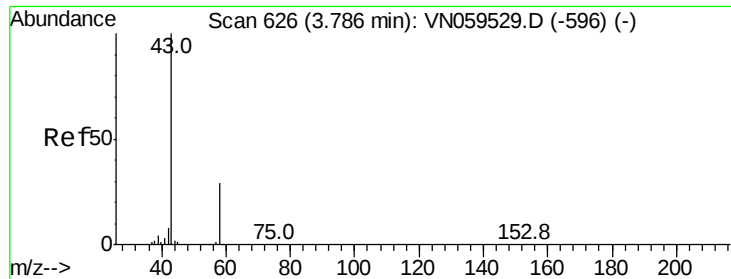
52 95.0 66.6 99.8

51 43.9 29.8 44.8



Abundance Ion 53.00 (52.70 to 53.70): VN0





#16

Acetone

Concen: 3.175 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

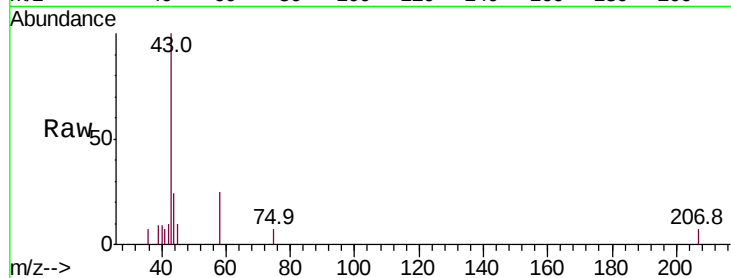
ClientSampled :

Tot Ion: 43 Resp: 6575

Ion Ratio Lower Upper

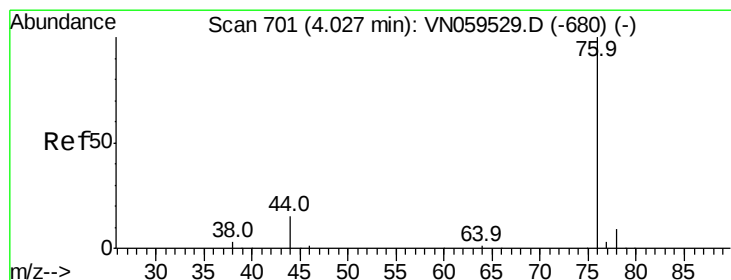
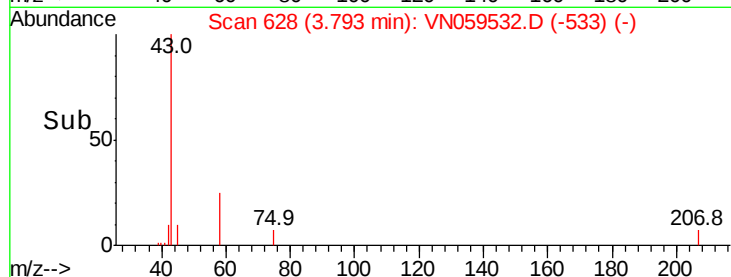
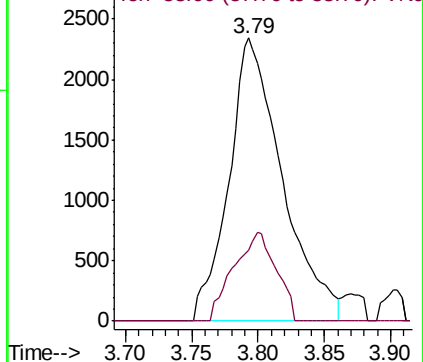
43 100

58 25.3 23.0 34.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 1.423 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN059532.D

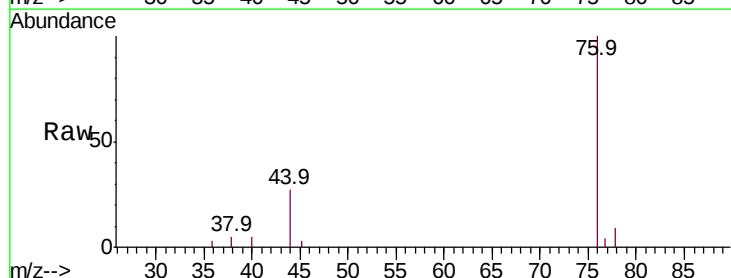
Acq: 9 Dec 2019 16:57

Tgt Ion: 76 Resp: 12499

Ion Ratio Lower Upper

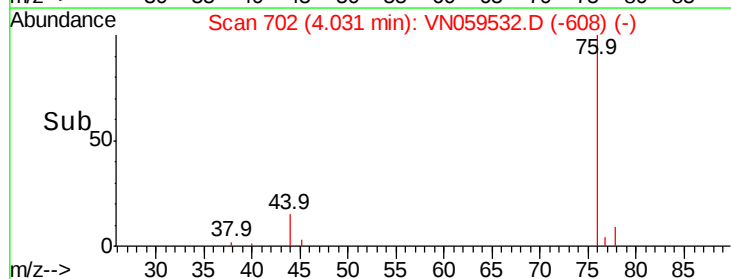
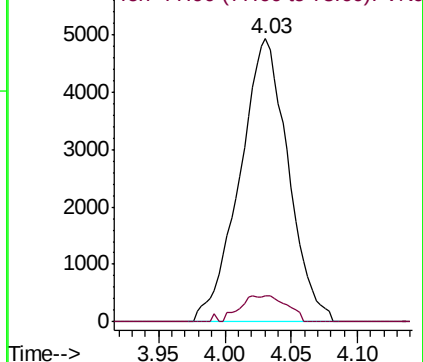
76 100

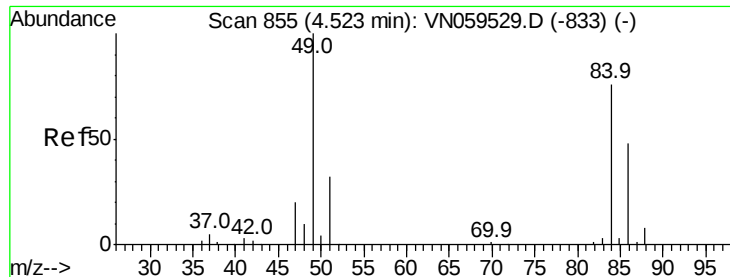
78 9.3 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

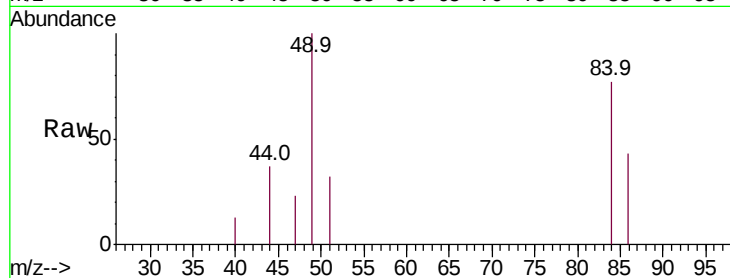




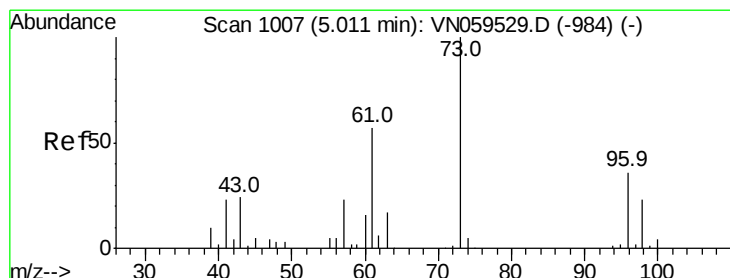
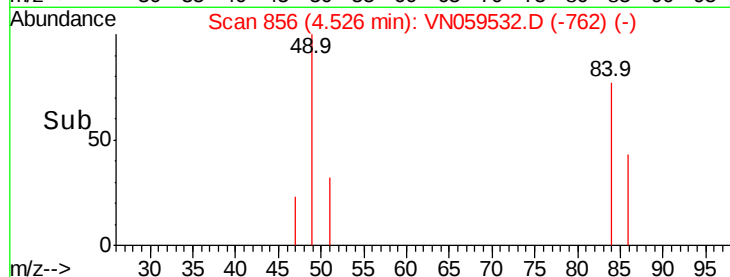
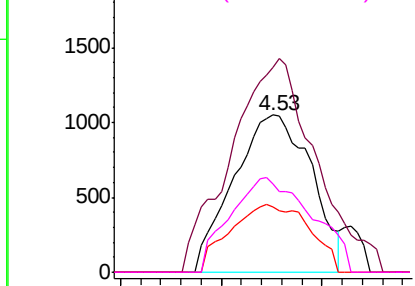
#20
Methvlene Chloride
Concen: 0.865 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059532.D
Acq: 9 Dec 2019 16:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 2814
Ion Ratio Lower Upper
84 100
49 111.4 105.8 158.8
51 41.7 33.7 50.5
86 56.0 51.0 76.4

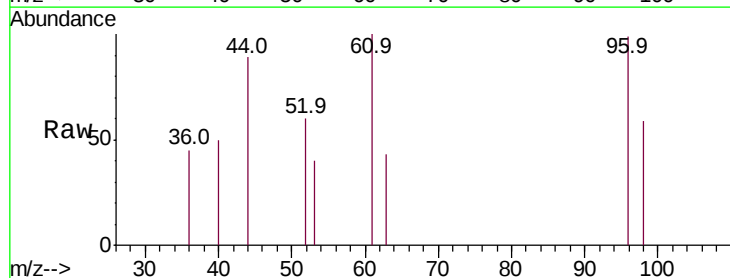


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

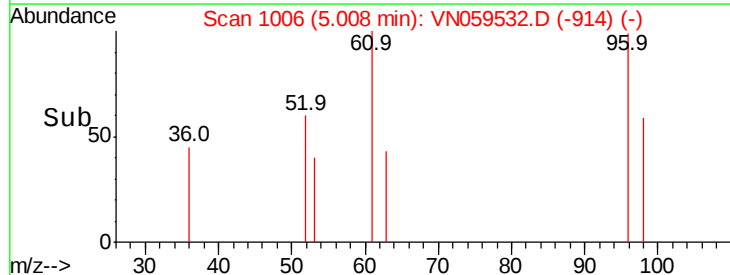
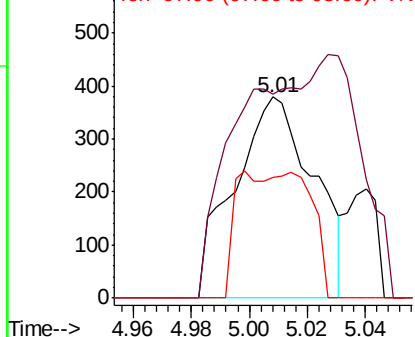


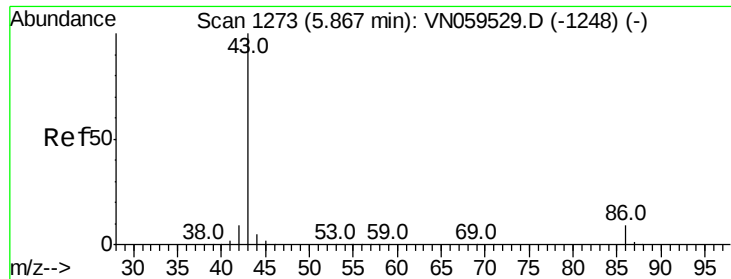
#21
trans-1,2-Dichloroethene
Concen: 0.250 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VN059532.D
Acq: 9 Dec 2019 16:57

Tgt Ion: 96 Resp: 720
Ion Ratio Lower Upper
96 100
61 101.3 124.8 187.2#
98 59.9 51.0 76.4



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





#23

Vinyl Acetate

Concen: 0.350 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.01 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

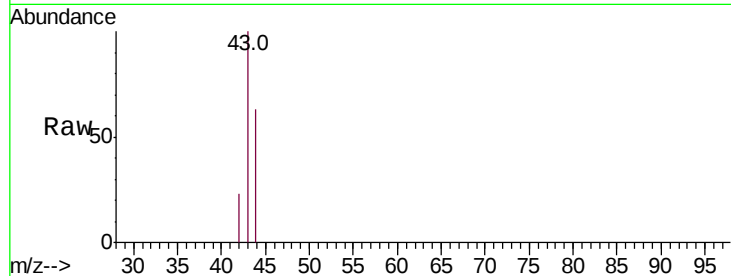
ClientSampled :

Tot Ion: 43 Resp: 2668

Ion Ratio Lower Upper

43 100

86 0.0 7.4 11.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.88

800

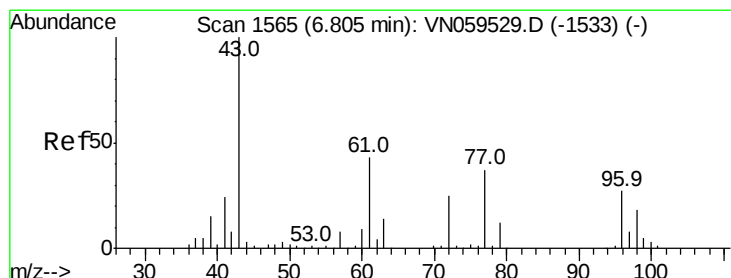
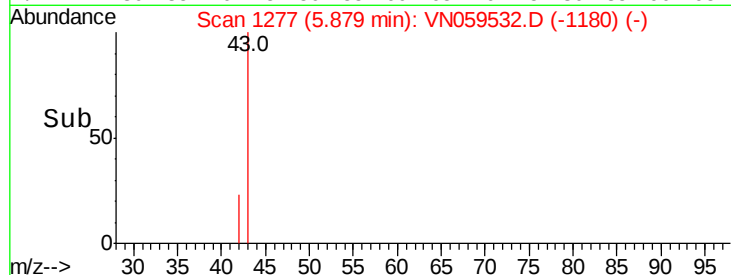
600

400

200

0

Time-->



#25

2-Butanone

Concen: 1.239 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.02 min

Lab File: VN059532.D

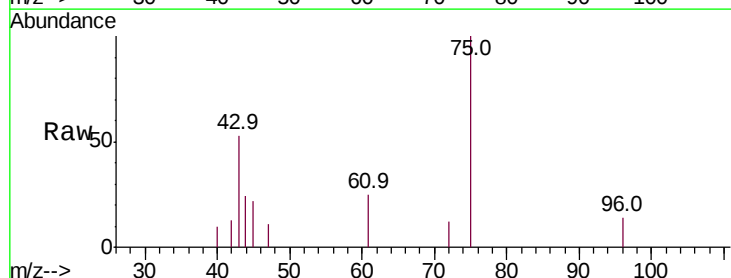
Acq: 9 Dec 2019 16:57

Tgt Ion: 43 Resp: 2901

Ion Ratio Lower Upper

43 100

72 22.7 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.82

800

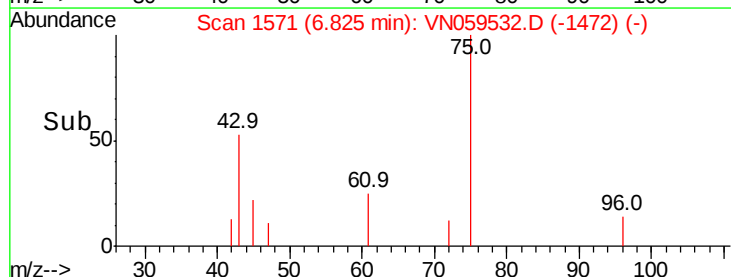
600

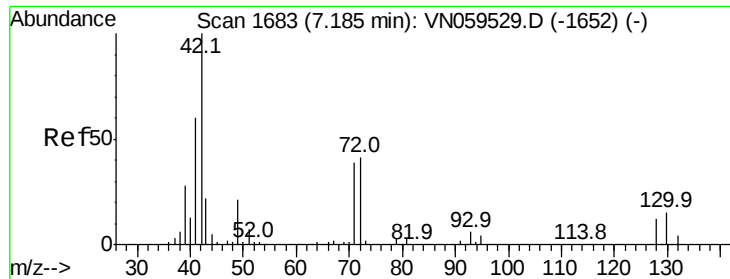
400

200

0

Time-->





#29

Tetrahydrofuran

Concen: 0.882 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :

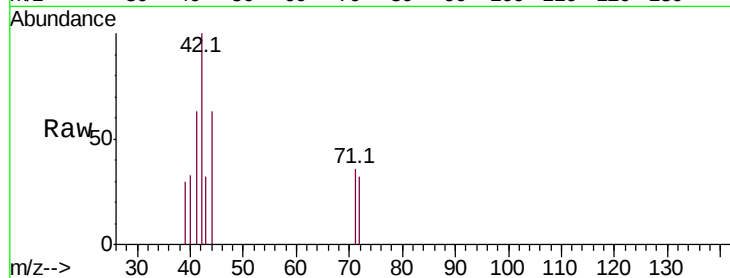
Tot Ion: 42 Resp: 1304

Ion Ratio Lower Upper

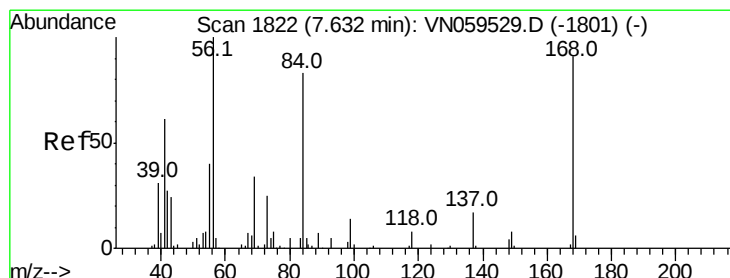
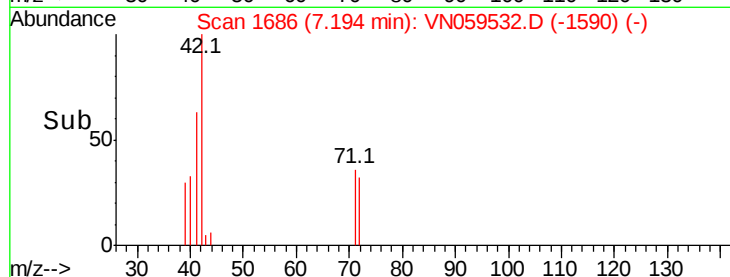
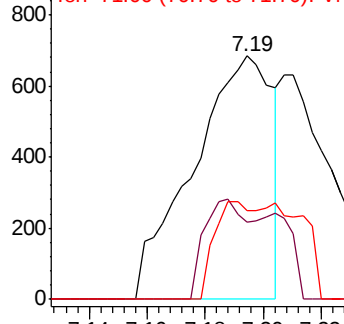
42 100

72 20.9 32.7 49.1#

71 20.9 31.4 47.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.241 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

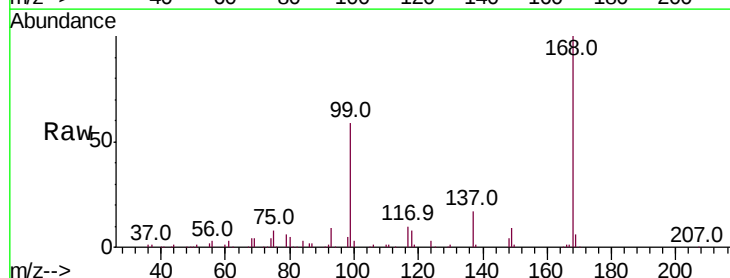
Tgt Ion: 56 Resp: 6411

Ion Ratio Lower Upper

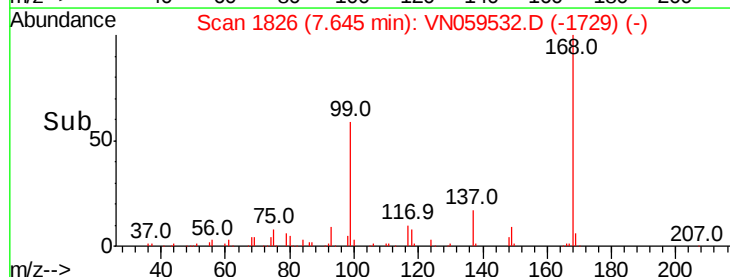
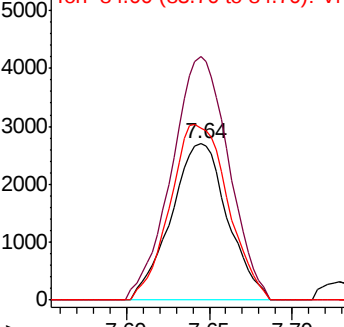
56 100

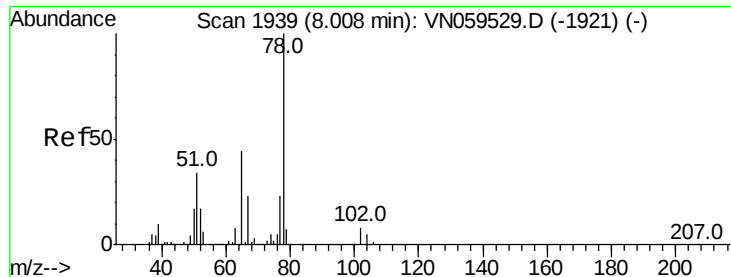
69 155.8 26.9 40.3#

84 109.9 66.5 99.7#



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

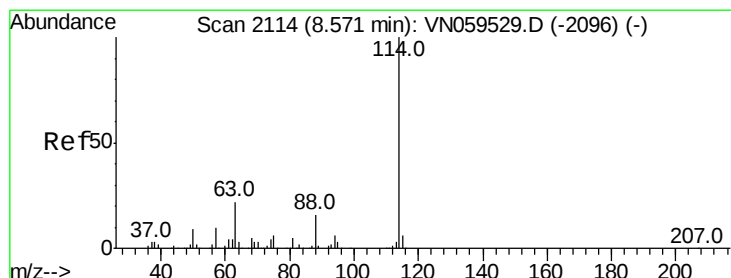
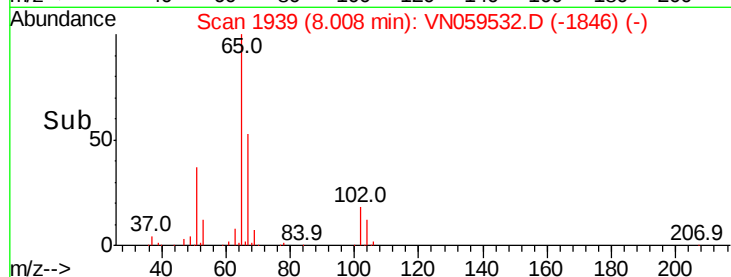
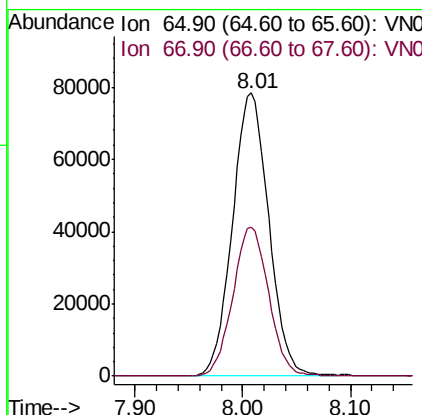
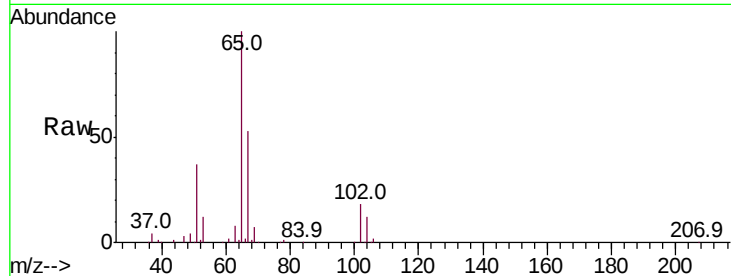




#33
 1,2-Dichloroethane-d4
 Concen: 58.413 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN059532.D
 Acq: 9 Dec 2019 16:57

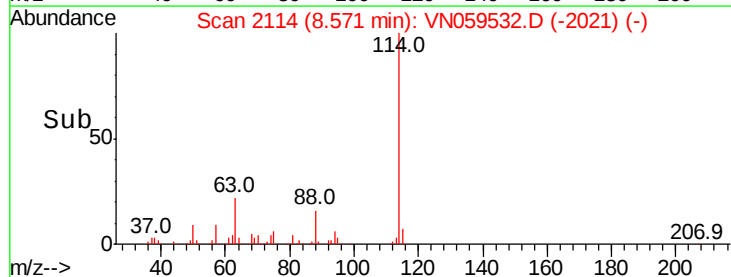
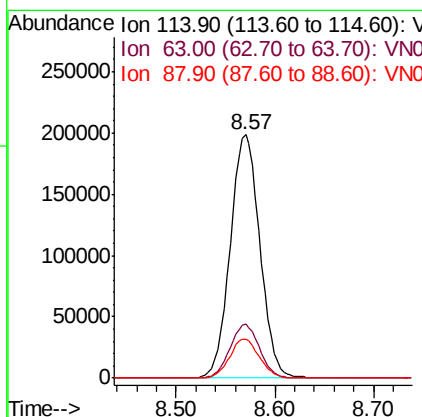
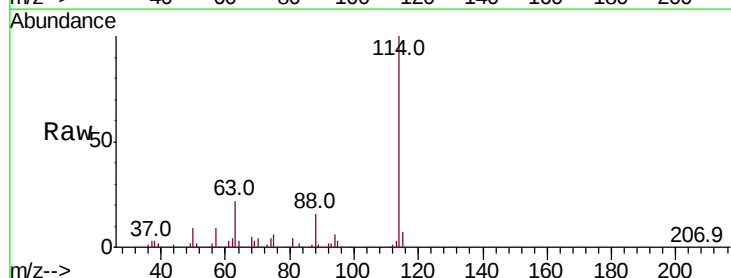
Instrument :
 MSVOA_N
 ClientSampleId :

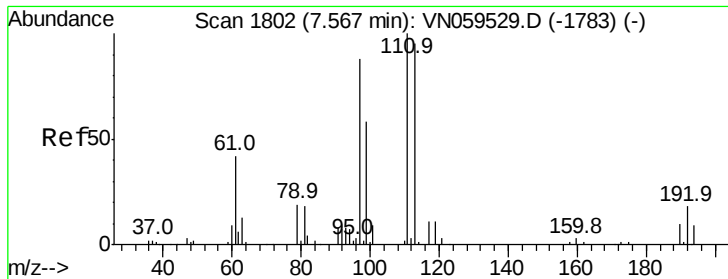
Tot Ion: 65 Resp: 183932
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN059532.D
 Acq: 9 Dec 2019 16:57

Tgt Ion: 114 Resp: 416032
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 45.0
 88 16.2 0.0 32.2





#35

Dibromofluoromethane

Concen: 51.154 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :

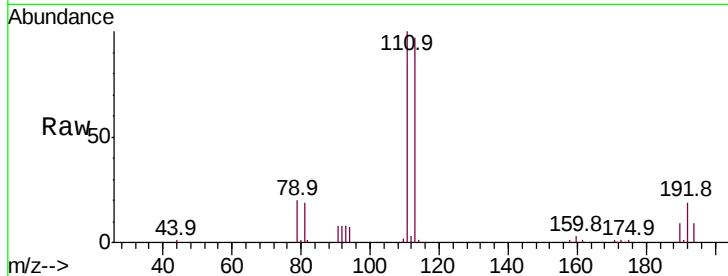
Tot Ion:113 Resp: 129382

Ion Ratio Lower Upper

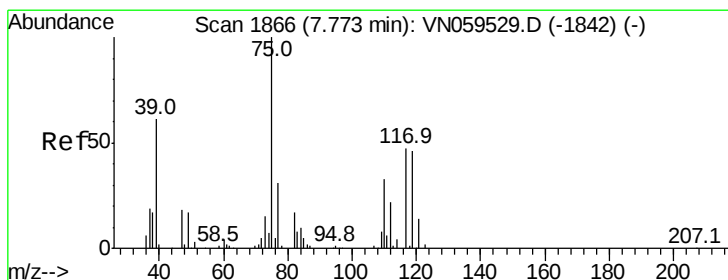
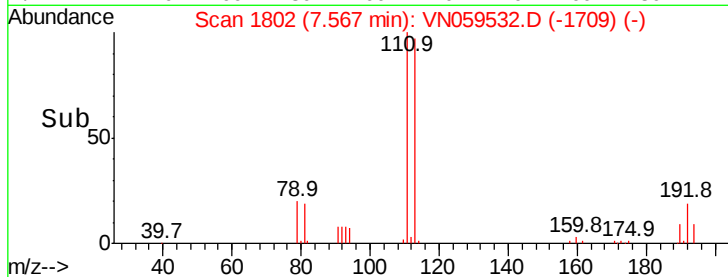
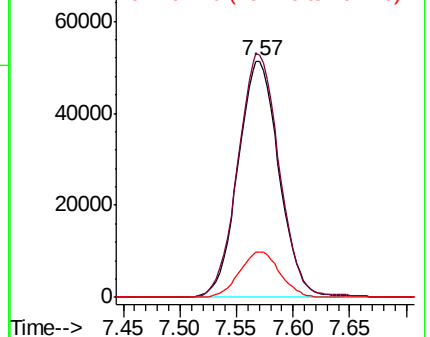
113 100

111 103.9 82.2 123.4

192 19.1 14.8 22.2



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



#36

1,1-Dichloropropene

Concen: 5.014 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

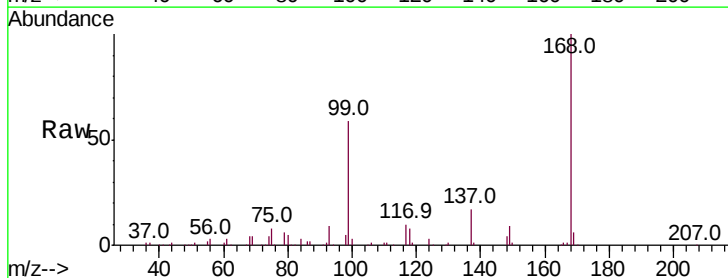
Tgt Ion: 75 Resp: 21258

Ion Ratio Lower Upper

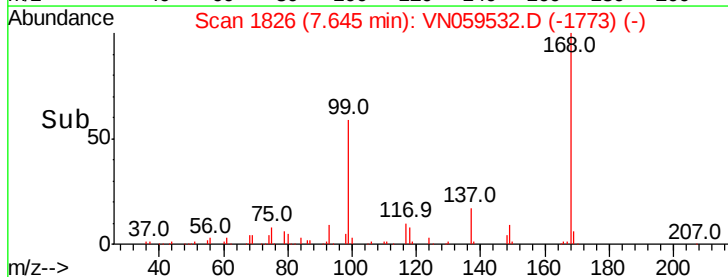
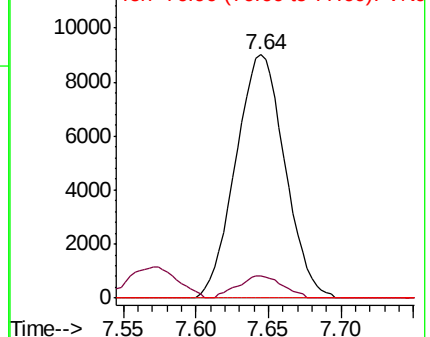
75 100

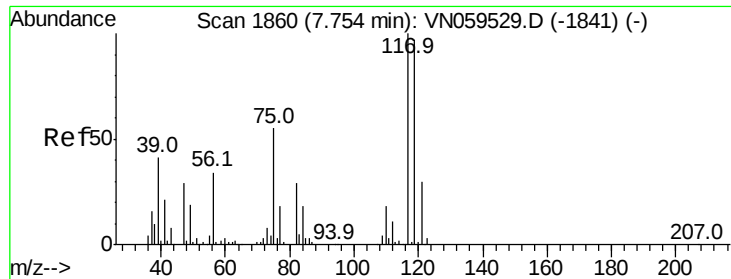
110 8.4 16.7 50.0#

77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.410 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

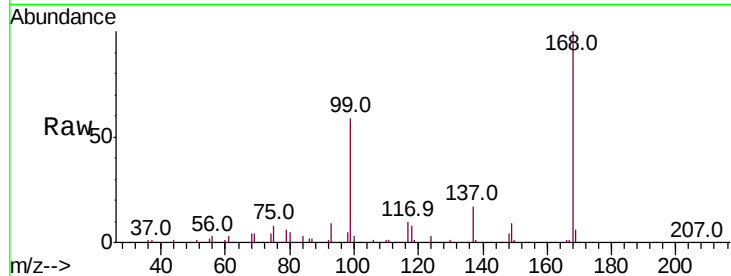
Tot Ion:117 Resp: 26264

Ion Ratio Lower Upper

117 100

119 5.7 77.0 115.4#

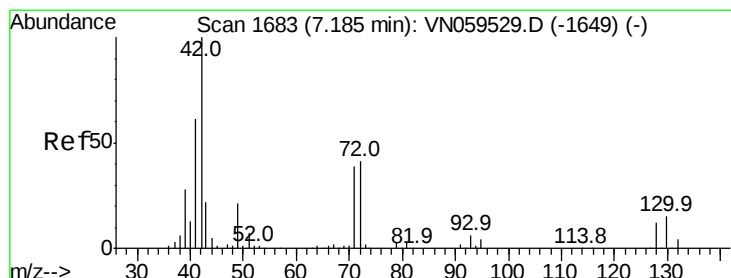
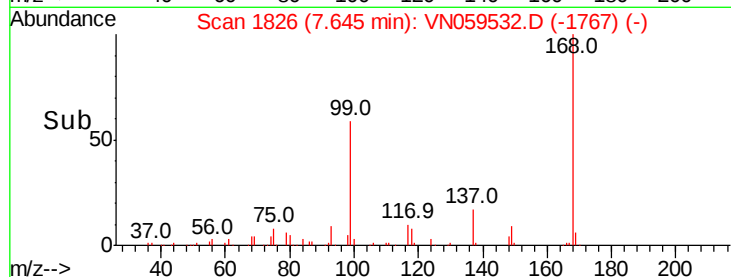
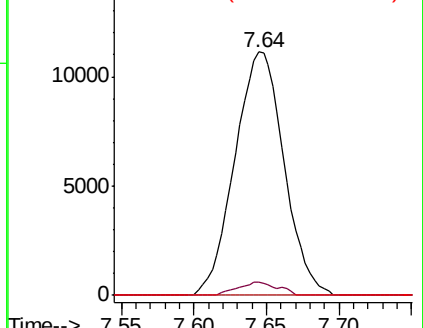
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.451 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.03 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Tgt Ion: 41 Resp: 881

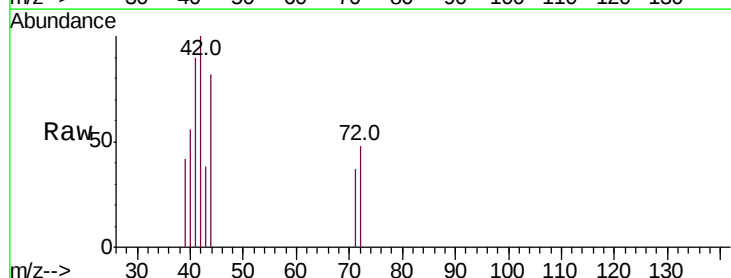
Ion Ratio Lower Upper

41 100

39 41.0 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

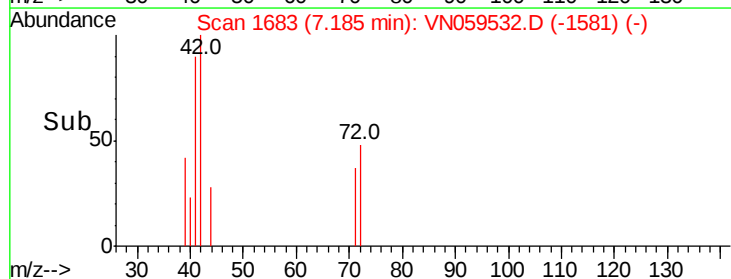
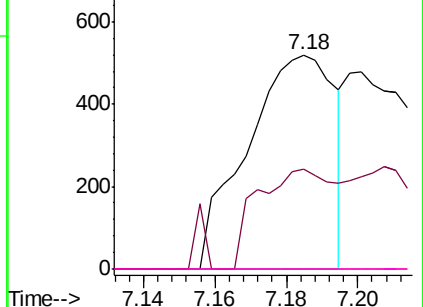


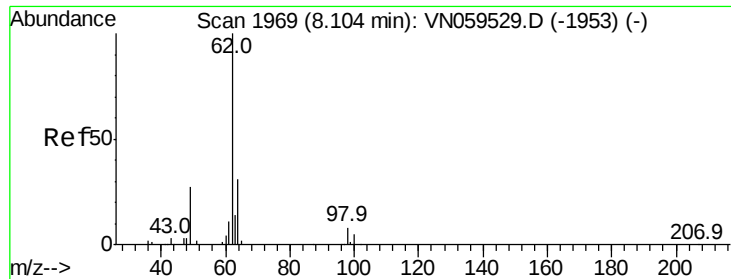
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#42

1,2-Dichloroethane

Concen: 0.227 ug/l

RT: 8.11 min Scan# 1971

Delta R.T. 0.01 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

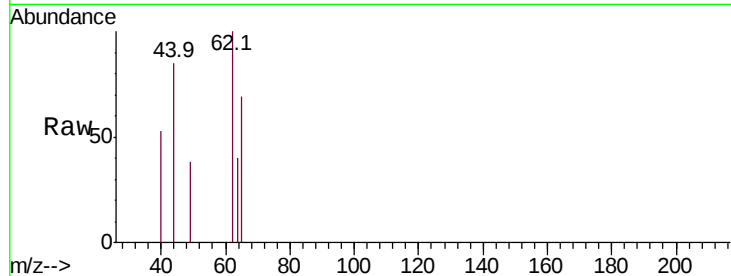
ClientSampleId :

Tot Ion: 62 Resp: 973

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.4



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

8.11

400

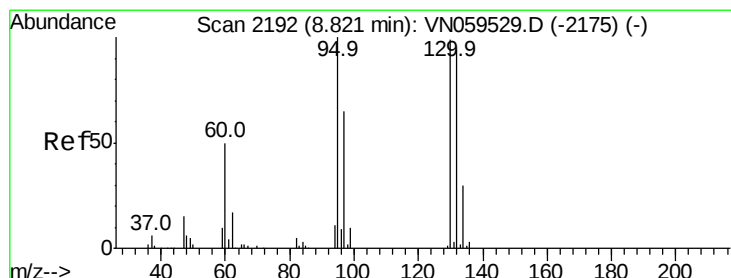
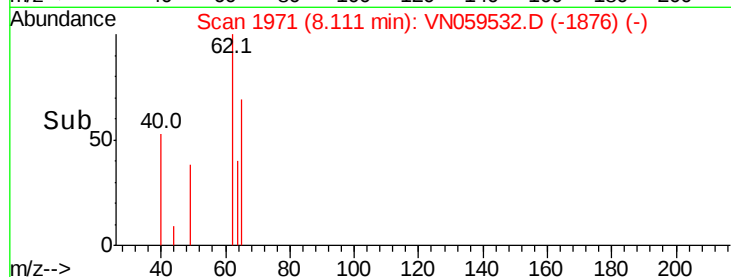
300

200

100

0

Time--> 8.05 8.10 8.15



#44

Trichloroethene

Concen: 0.235 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN059532.D

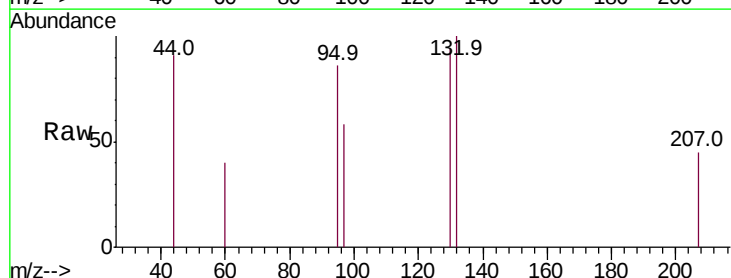
Acq: 9 Dec 2019 16:57

Tgt Ion:130 Resp: 758

Ion Ratio Lower Upper

130 100

95 91.6 0.0 202.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.82

400

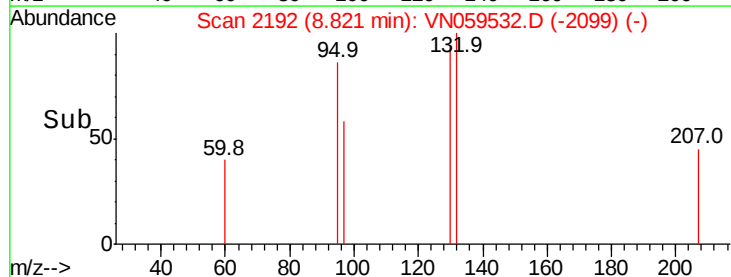
300

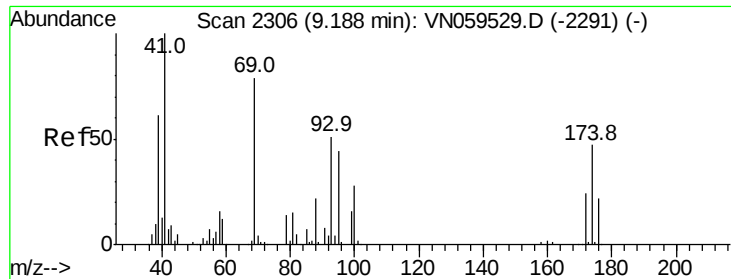
200

100

0

Time--> 8.78 8.80 8.82 8.84 8.86

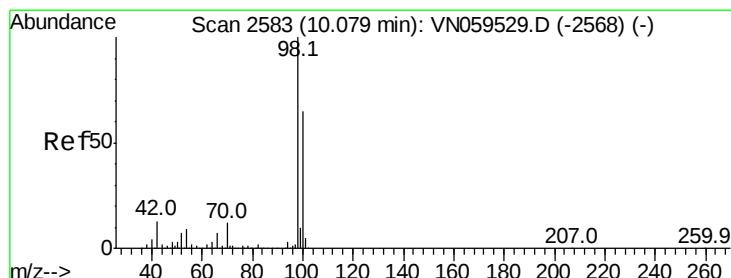
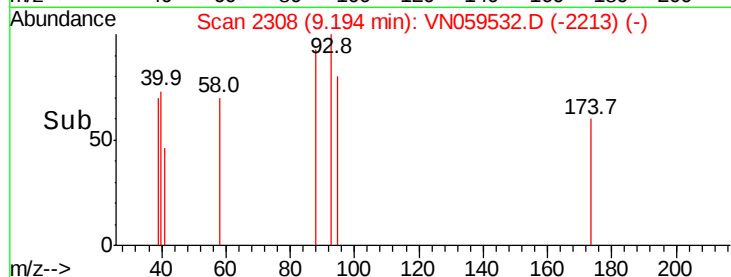
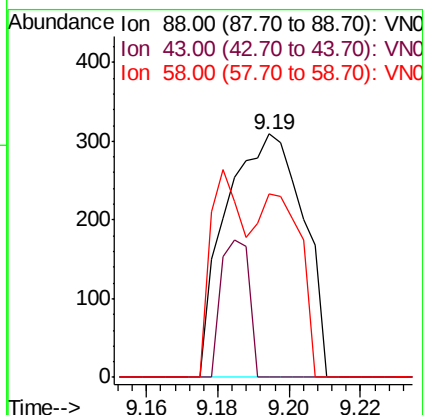
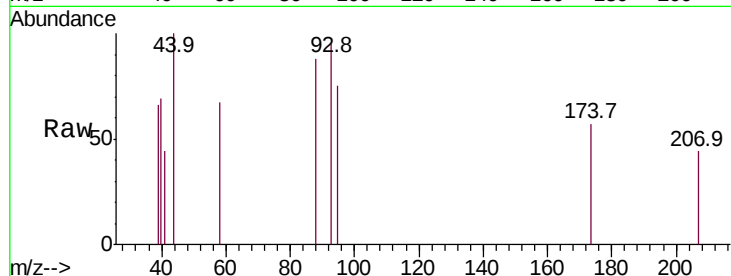




#49
1,4-Dioxane
Concen: 9.803 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VN059532.D
Acq: 9 Dec 2019 16:57

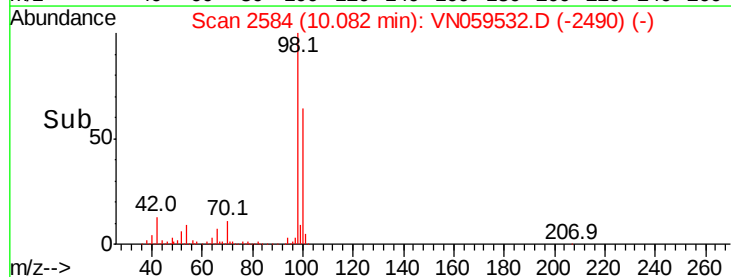
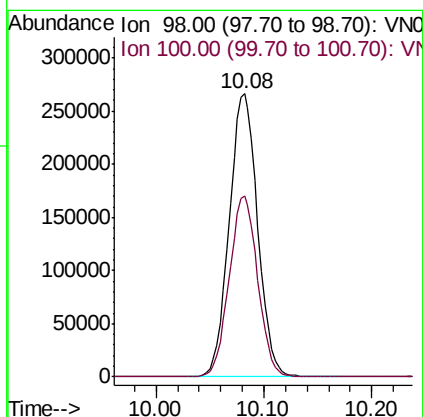
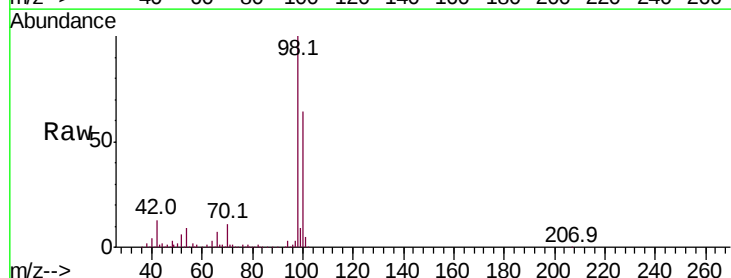
Instrument :
MSVOA_N
ClientSampled :

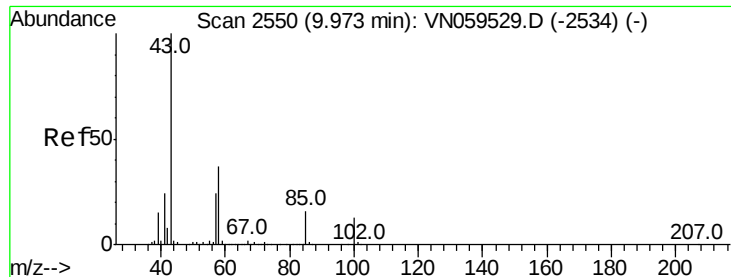
Tot Ion: 88 Resp: 461
Ion Ratio Lower Upper
88 100
43 20.6 31.4 47.0#
58 36.7 61.0 91.6#



#50
Toluene-d8
Concen: 49.384 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059532.D
Acq: 9 Dec 2019 16:57

Tgt Ion: 98 Resp: 488993
Ion Ratio Lower Upper
98 100
100 64.0 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 0.557 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.01 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

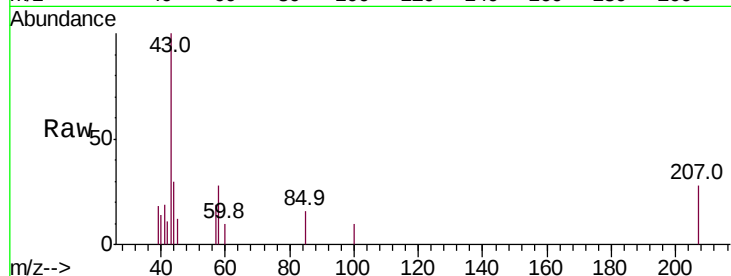
ClientSampleId :

Tot Ion: 43 Resp: 2338

Ion Ratio Lower Upper

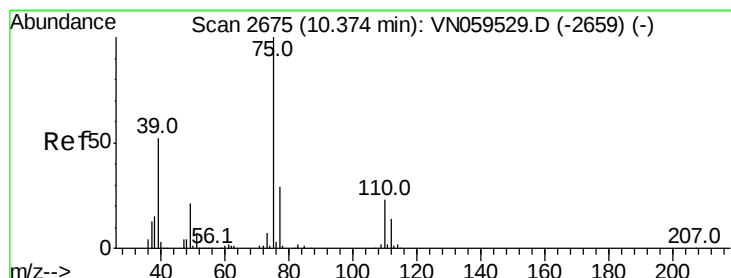
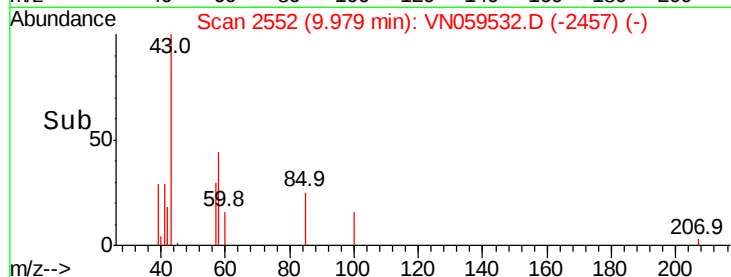
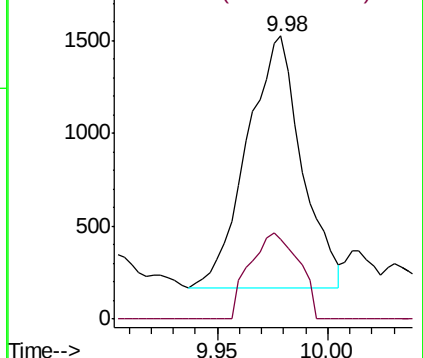
43 100

58 30.6 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.245 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.00 min

Lab File: VN059532.D

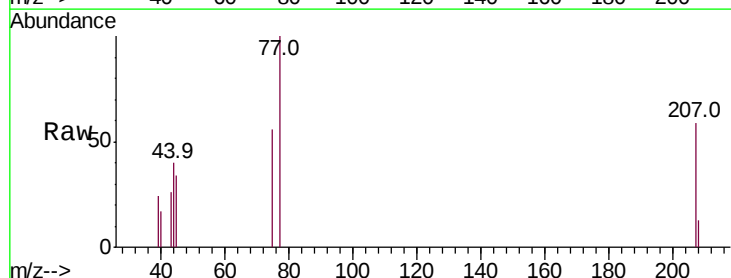
Acq: 9 Dec 2019 16:57

Tgt Ion: 75 Resp: 1195

Ion Ratio Lower Upper

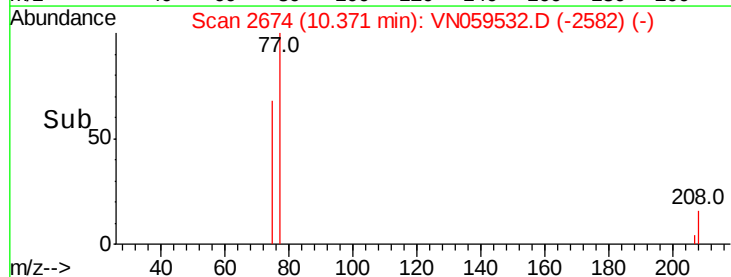
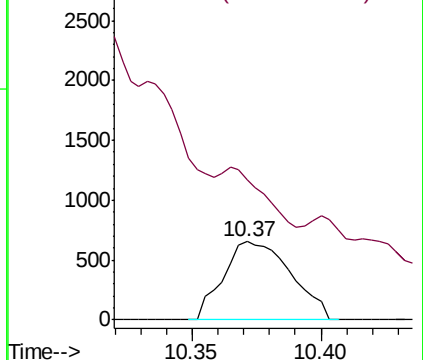
75 100

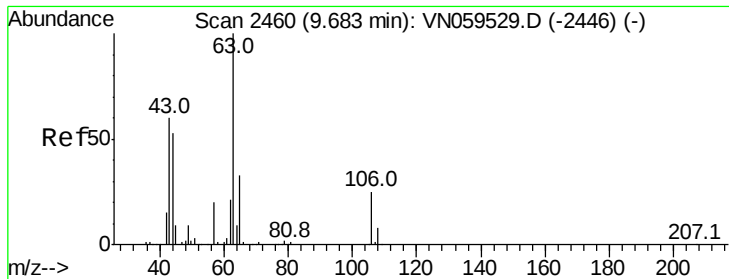
77 64.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 1.152 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

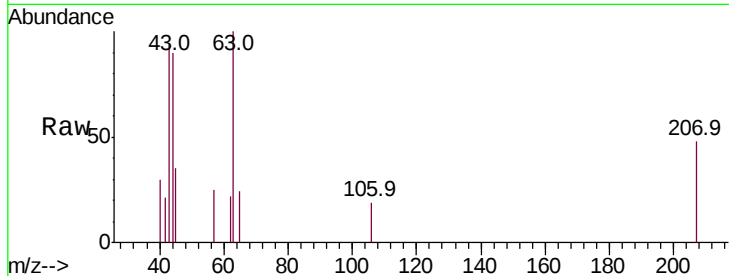
ClientSampleId :

Tot Ion: 63 Resp: 1436

Ion Ratio Lower Upper

63 100

106 6.7 19.9 29.9#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

800

600

400

200

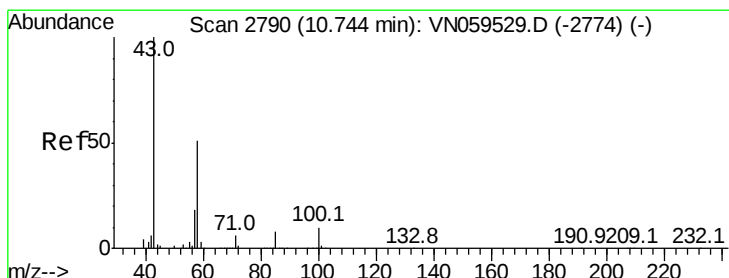
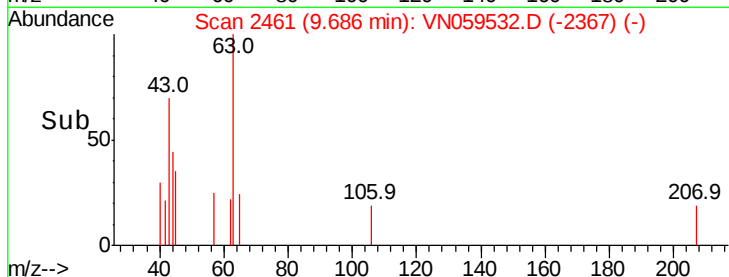
0

9.65

9.69

9.70

Time-->



#59

2-Hexanone

Concen: 1.015 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN059532.D

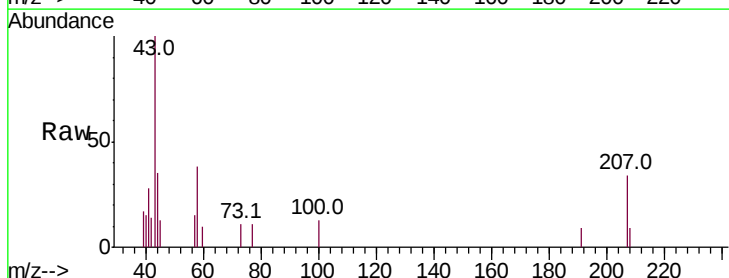
Acq: 9 Dec 2019 16:57

Tgt Ion: 43 Resp: 3208

Ion Ratio Lower Upper

43 100

58 43.0 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2000

1500

1000

500

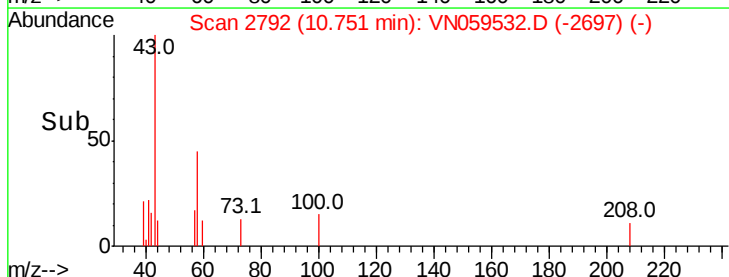
0

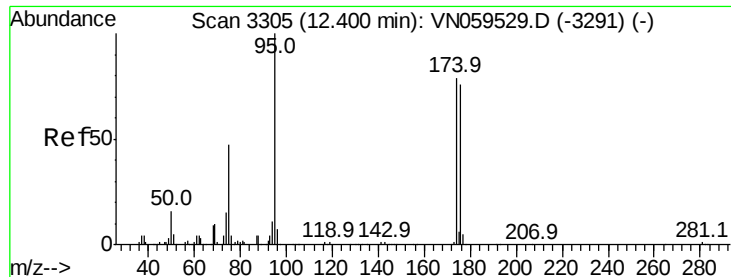
10.70

10.75

10.80

Time-->





#62

4-Bromofluorobenzene

Concen: 47.908 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

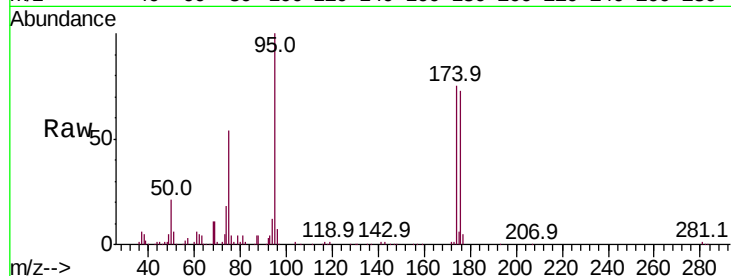
Tot Ion: 95 Resp: 170787

Ion Ratio Lower Upper

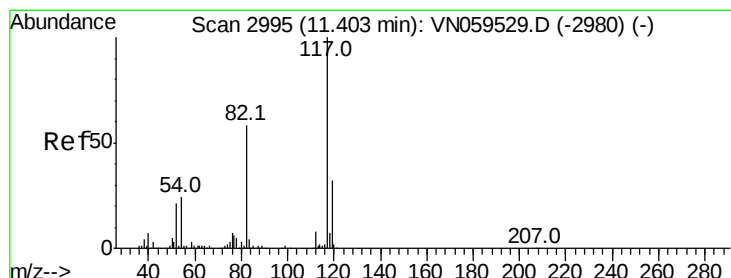
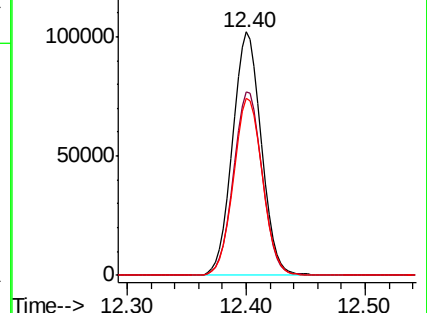
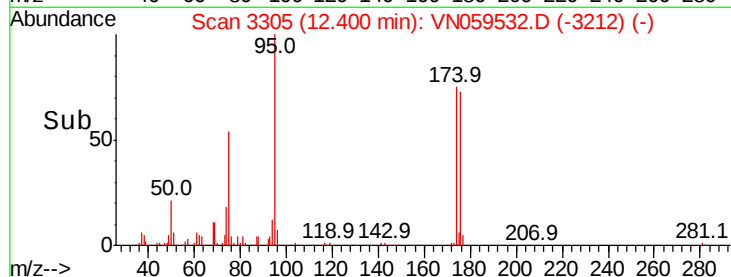
95 100

174 75.7 0.0 158.0

176 73.2 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VN059532.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

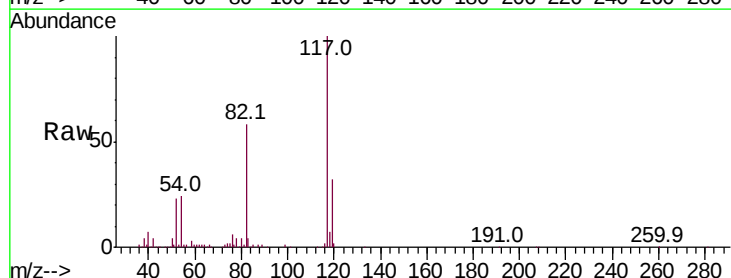
Tgt Ion: 117 Resp: 373592

Ion Ratio Lower Upper

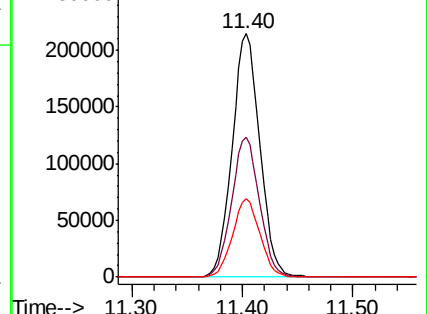
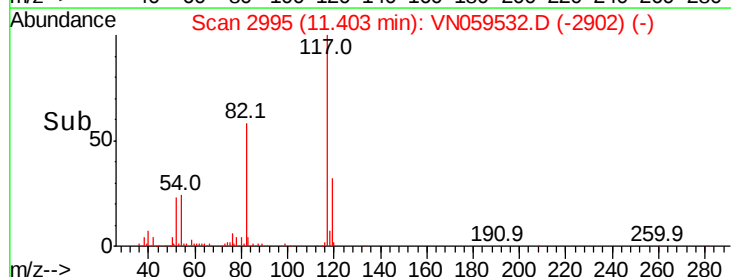
117 100

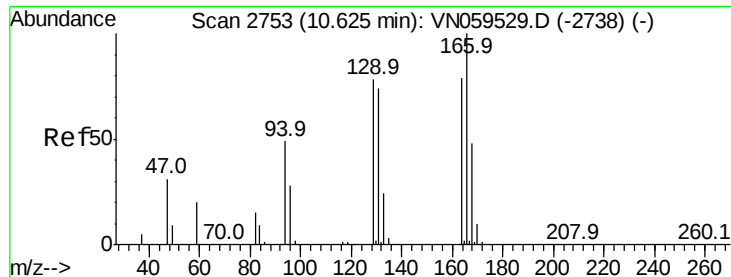
82 57.5 46.5 69.7

119 32.0 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN059532.D (-2902) (-)





#64

Tetrachloroethene

Concen: 0.245 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN059532.D

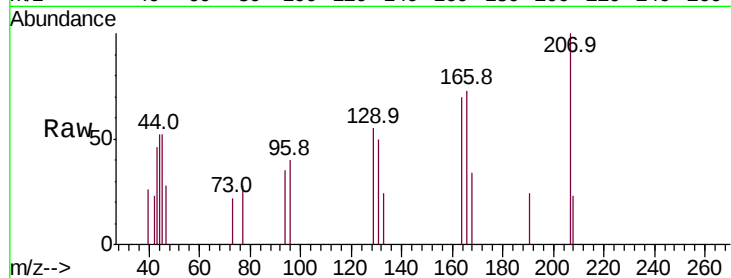
Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:164	Resp:	743
Ion	Ratio	Lower Upper
164	100	
166	104.7	101.6 152.4
129	79.3	79.0 118.6
131	71.5	74.7 112.1#

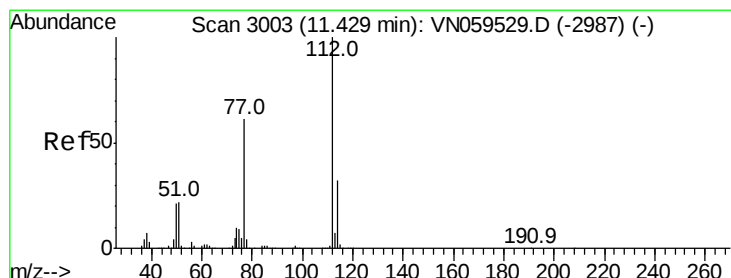
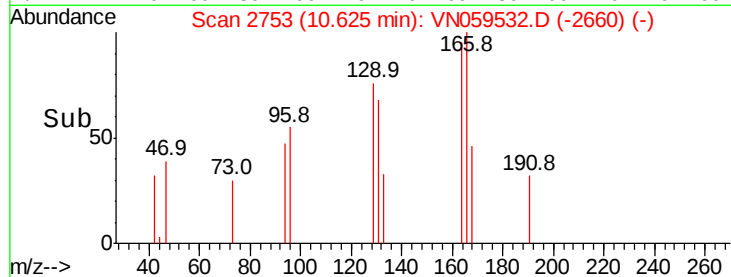
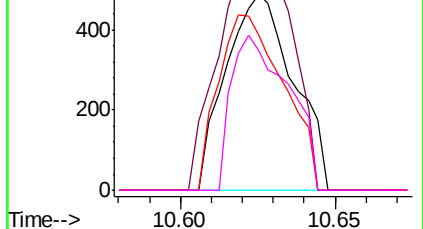


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.296 ug/l

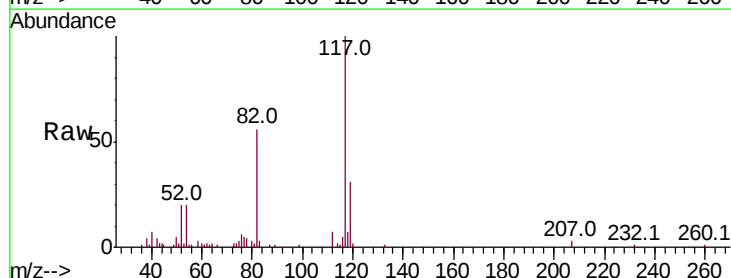
RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059532.D

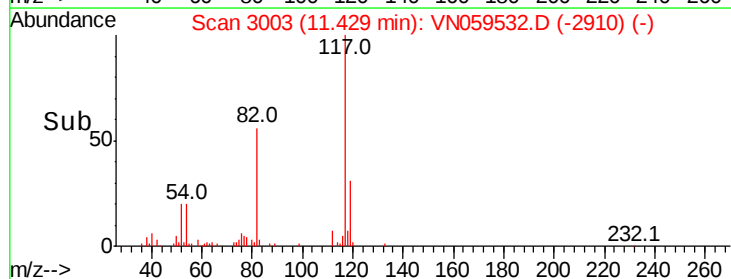
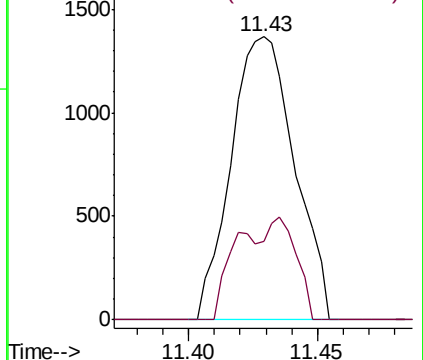
Acq: 9 Dec 2019 16:57

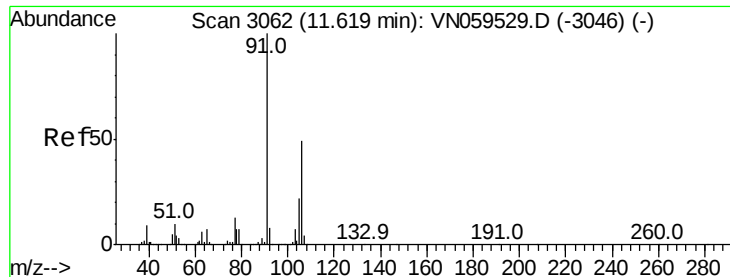
Tgt Ion:112	Resp:	2354
Ion	Ratio	Lower Upper
112	100	
114	27.9	26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#68

m/p-Xvlenes

Concen: 0.324 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

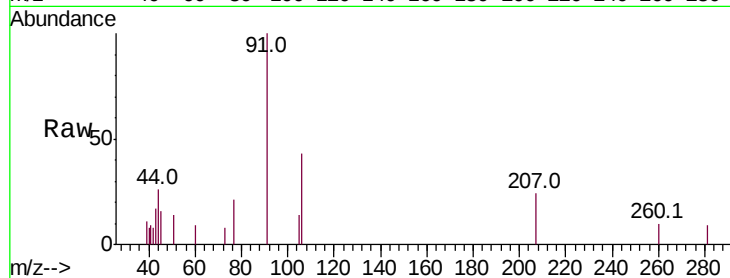
ClientSampleId :

Tot Ion:106 Resp: 1701

Ion Ratio Lower Upper

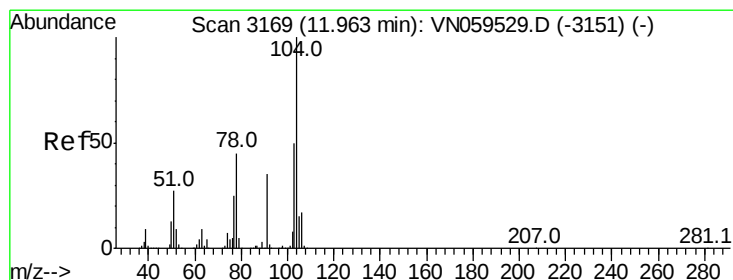
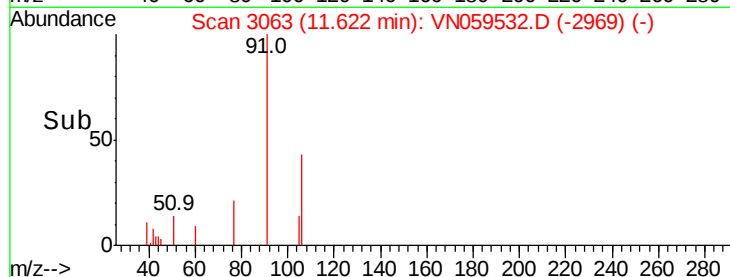
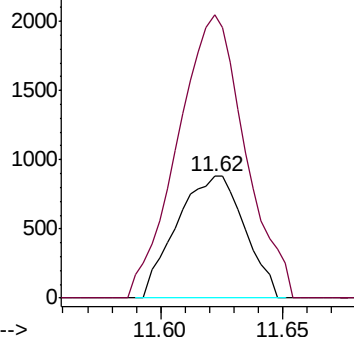
106 100

91 231.0 162.9 244.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 0.227 ug/l

RT: 11.96 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

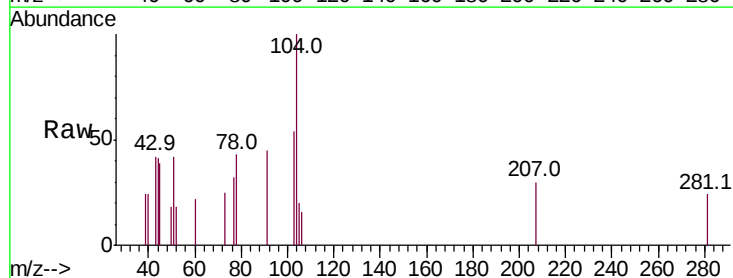
Tgt Ion:104 Resp: 1815

Ion Ratio Lower Upper

104 100

78 50.0 40.6 60.8

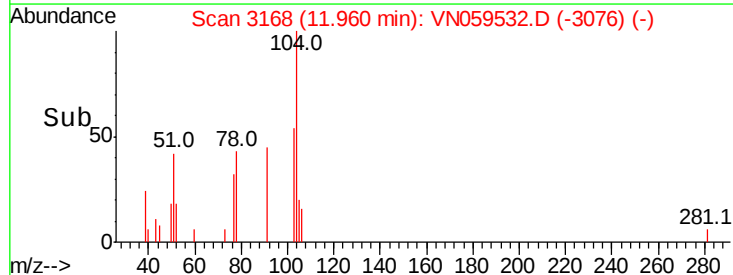
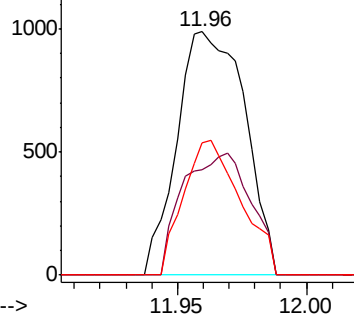
103 46.7 43.9 65.9

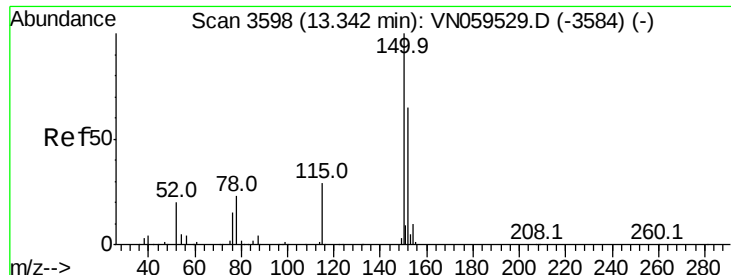


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

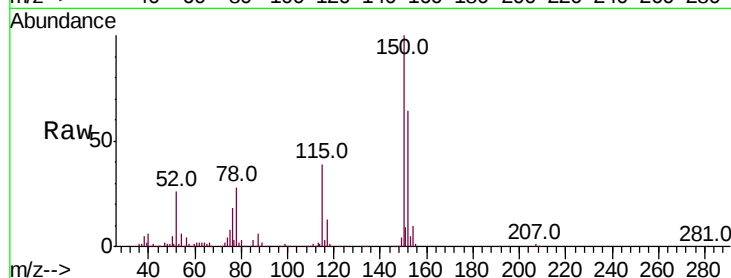
Tot Ion:152 Resp: 166168

Ion Ratio Lower Upper

152 100

115 60.3 29.4 88.2

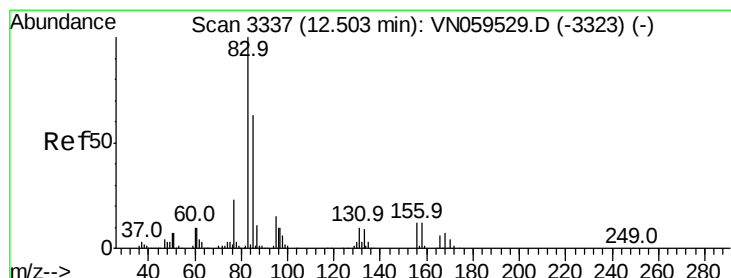
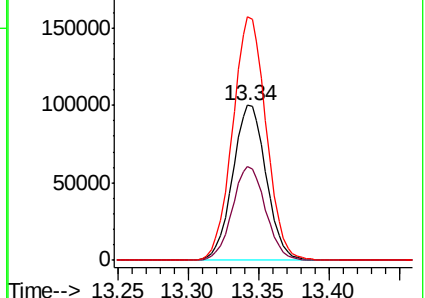
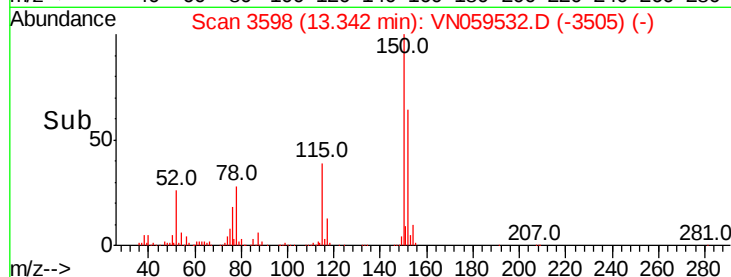
150 157.4 0.0 342.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: 0.258 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

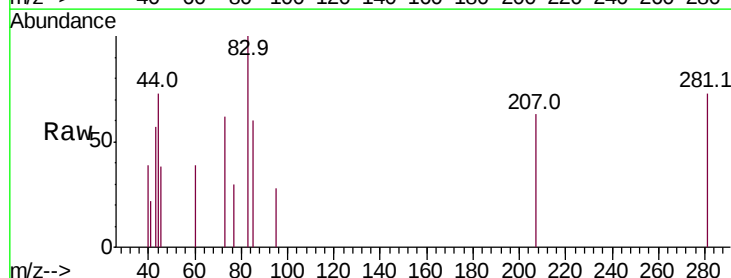
Tgt Ion: 83 Resp: 1059

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

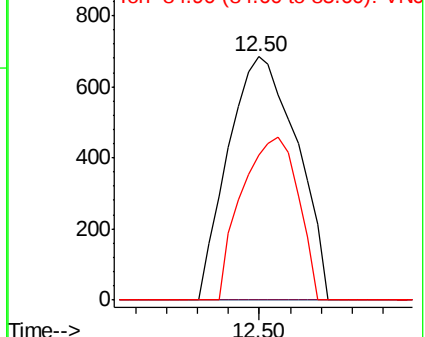
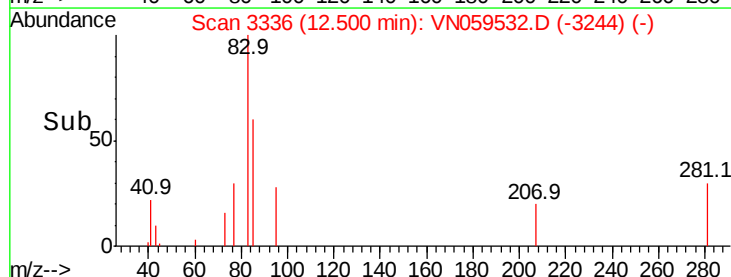
85 55.0 31.6 95.0

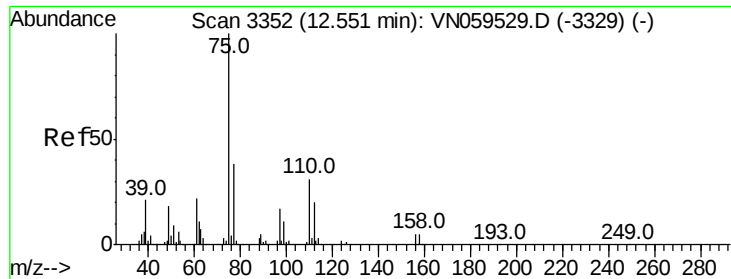


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 22.464 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

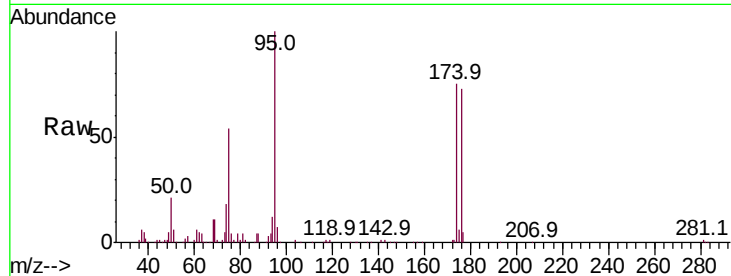
ClientSampleId :

Tot Ion: 75 Resp: 91198

Ion Ratio Lower Upper

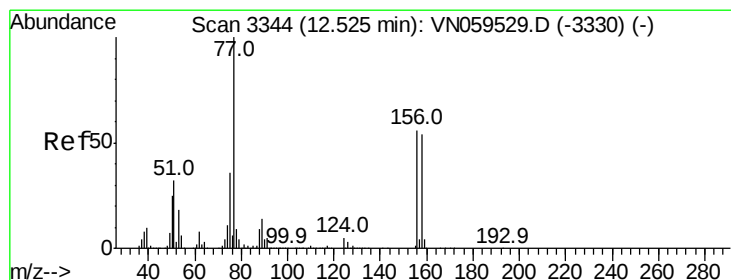
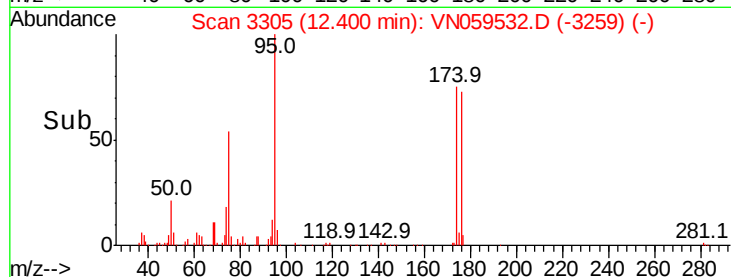
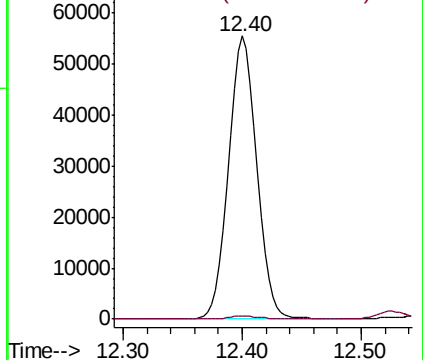
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: 0.403 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

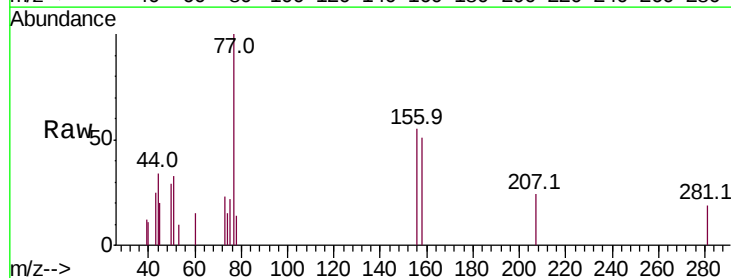
Tgt Ion: 156 Resp: 1294

Ion Ratio Lower Upper

156 100

77 242.9 109.3 327.8

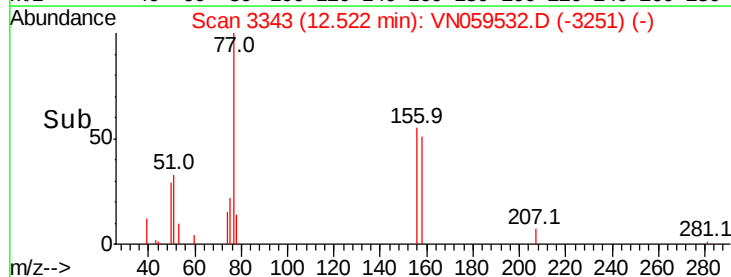
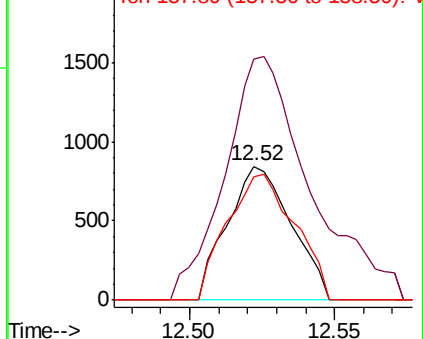
158 99.4 48.6 145.8

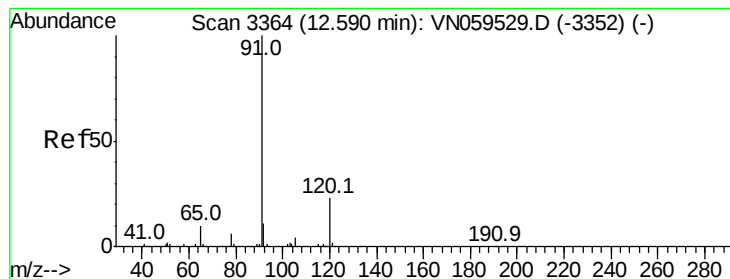


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 0.237 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

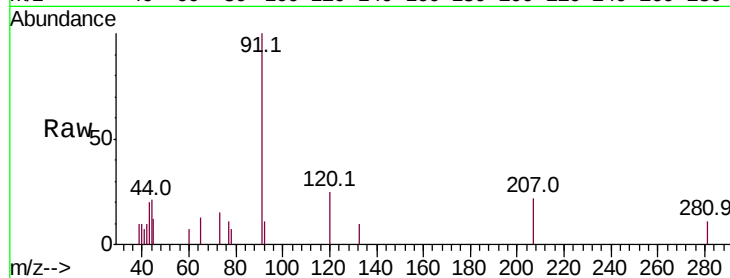
ClientSampleId :

Tot Ion: 91 Resp: 3526

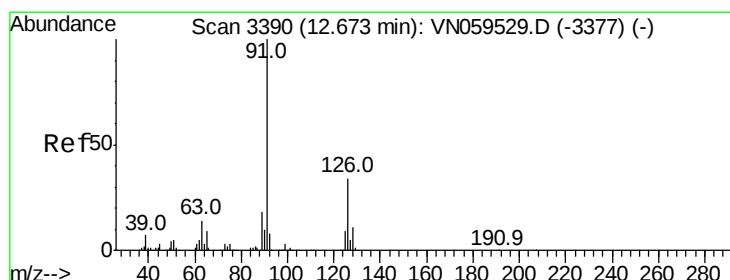
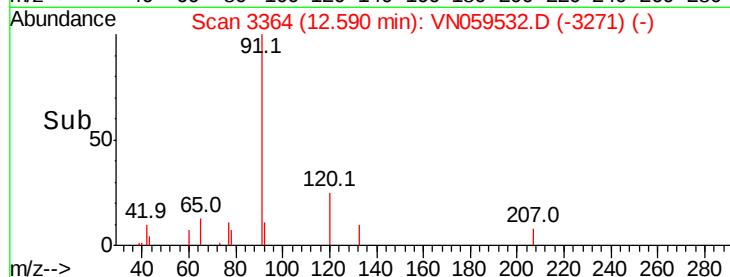
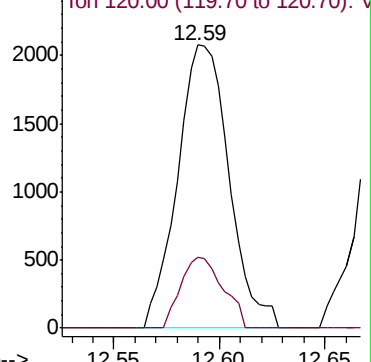
Ion Ratio Lower Upper

91 100

120 20.4 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3352) (-)



#79

2-Chlorotoluene

Concen: 0.261 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059532.D

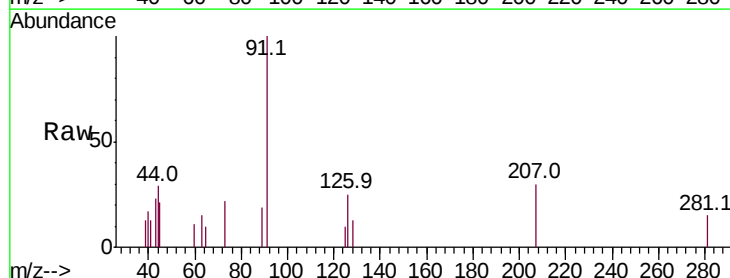
Acq: 9 Dec 2019 16:57

Tgt Ion: 91 Resp: 2344

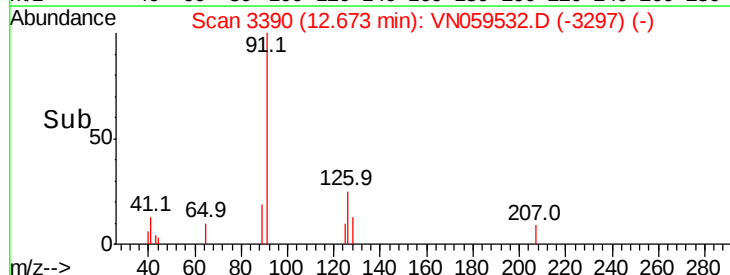
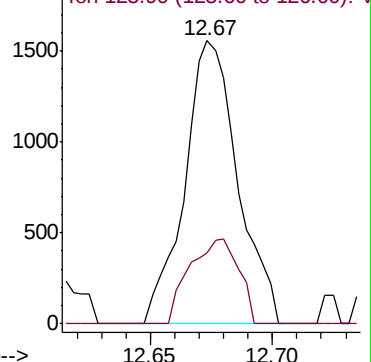
Ion Ratio Lower Upper

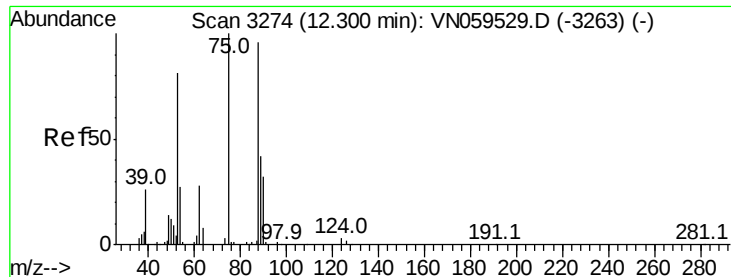
91 100

126 27.8 16.9 50.7



Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3377) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 60.969 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

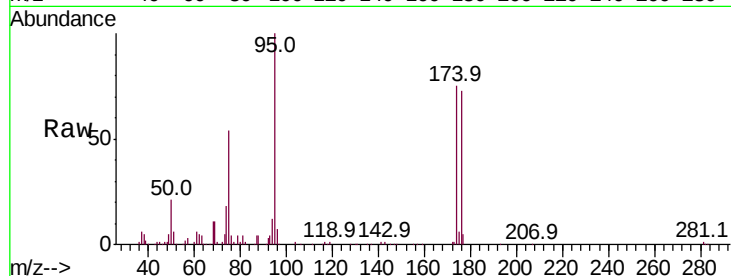
Tot Ion: 75 Resp: 91198

Ion Ratio Lower Upper

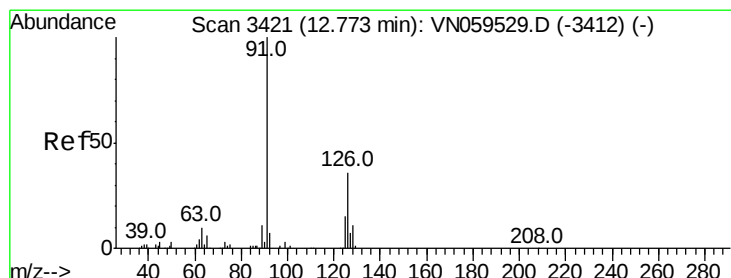
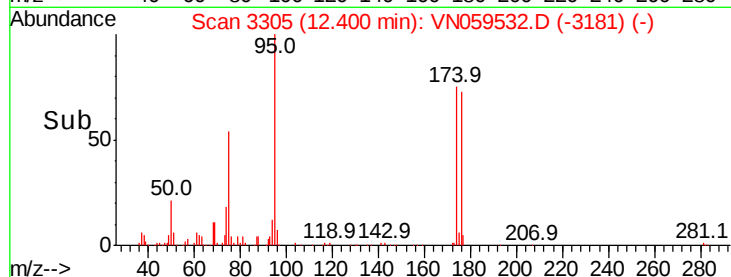
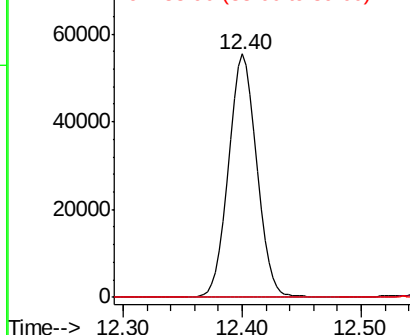
75 100

53 0.0 67.0 100.6#

89 0.0 35.5 53.3#



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



#82

4-Chlorotoluene

Concen: 0.394 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN059532.D

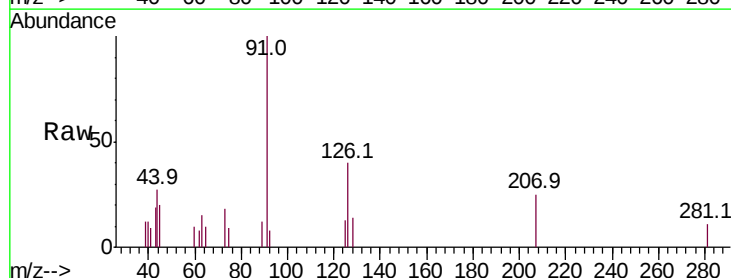
Acq: 9 Dec 2019 16:57

Tgt Ion: 91 Resp: 3671

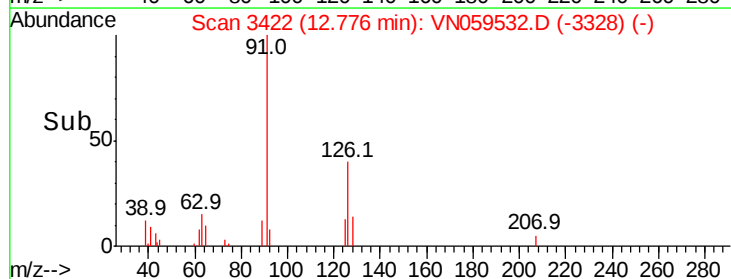
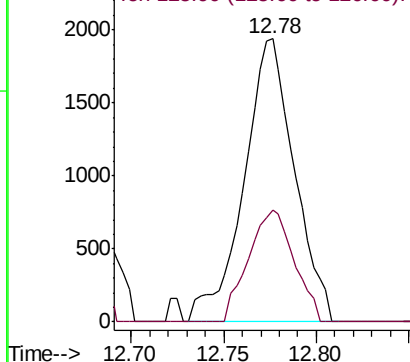
Ion Ratio Lower Upper

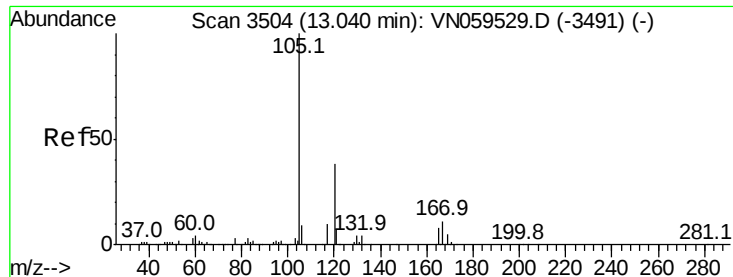
91 100

126 35.7 16.4 49.4



Abundance Ion 91.00 (90.70 to 91.70): VNO
Ion 125.90 (125.60 to 126.60): V





#84

1,2,4-Trimethylbenzene

Concen: 0.218 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

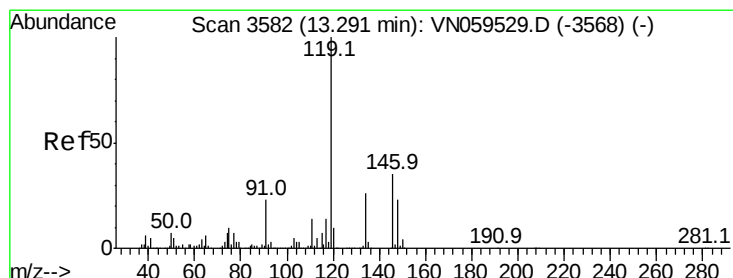
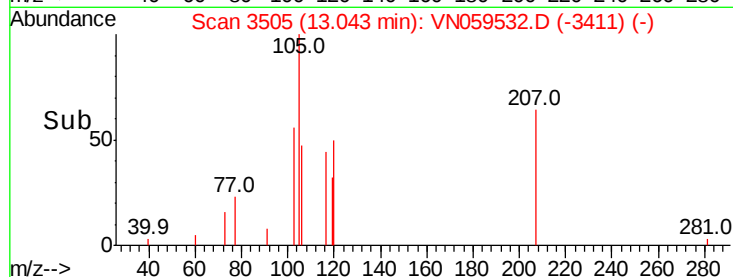
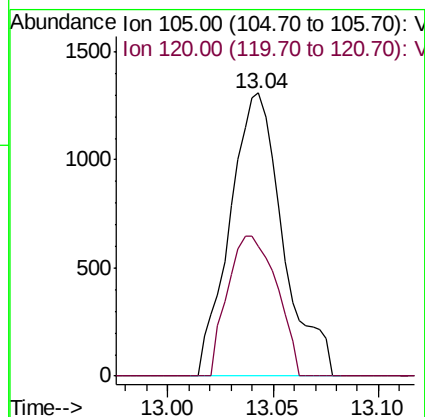
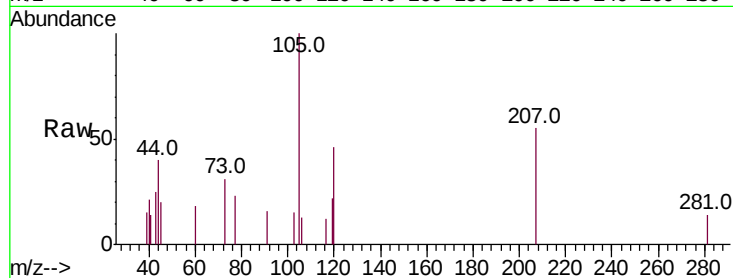
ClientSampled :

Tot Ion:105 Resp: 2294

Ion Ratio Lower Upper

105 100

120 45.5 22.8 68.3



#86

p-Isopropyltoluene

Concen: 0.224 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

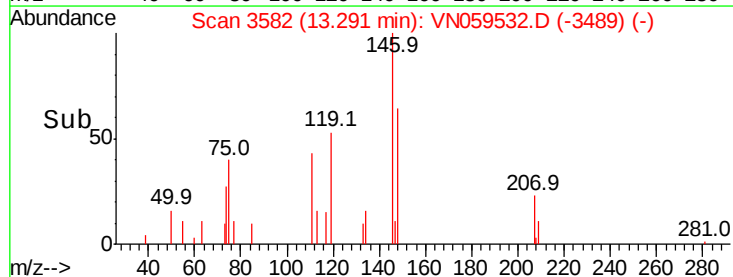
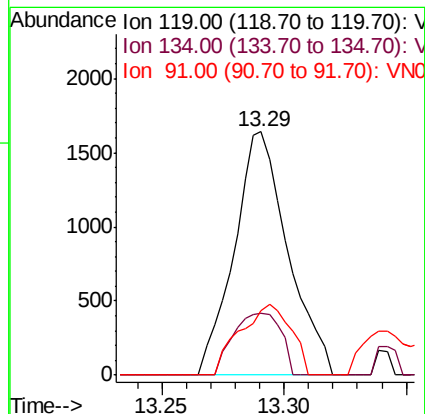
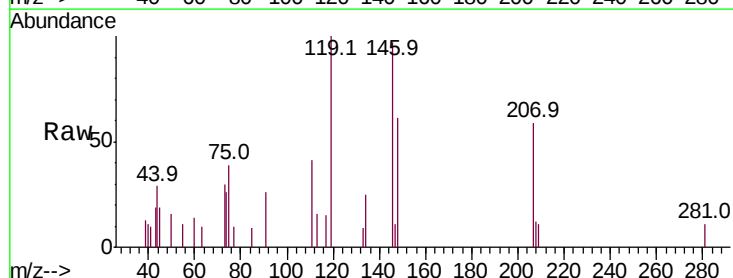
Tgt Ion:119 Resp: 2493

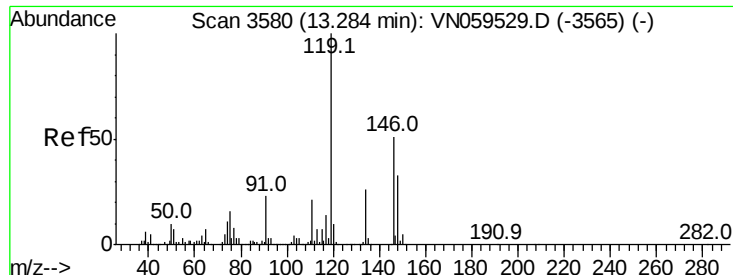
Ion Ratio Lower Upper

119 100

134 22.6 13.0 39.0

91 27.7 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 0.525 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

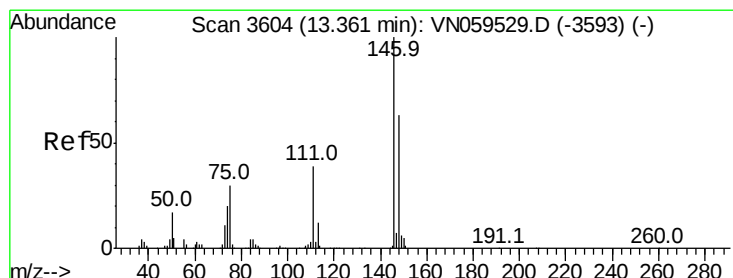
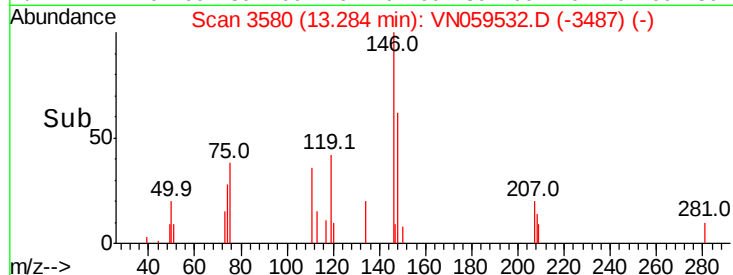
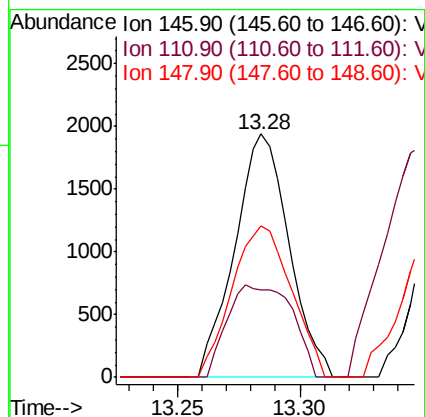
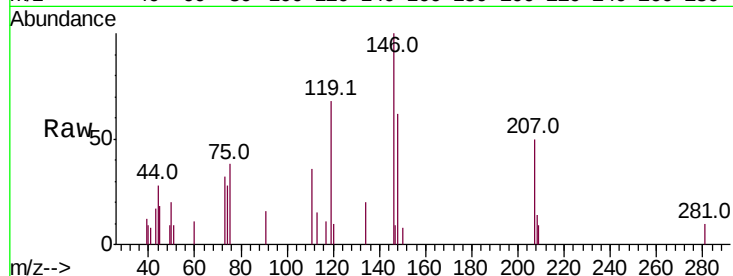
Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:146 Resp: 2995

Ion	Ratio	Lower	Upper
146	100		
111	45.3	20.6	61.8
148	68.1	32.0	96.0



#88

1,4-Dichlorobenzene

Concen: 0.520 ug/l

RT: 13.28 min Scan# 3580

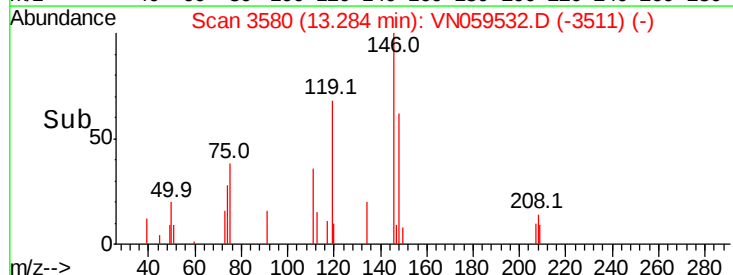
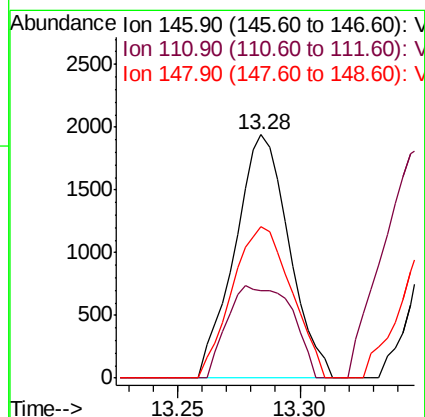
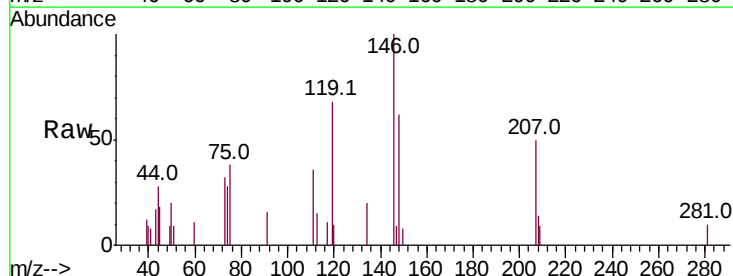
Delta R.T. -0.08 min

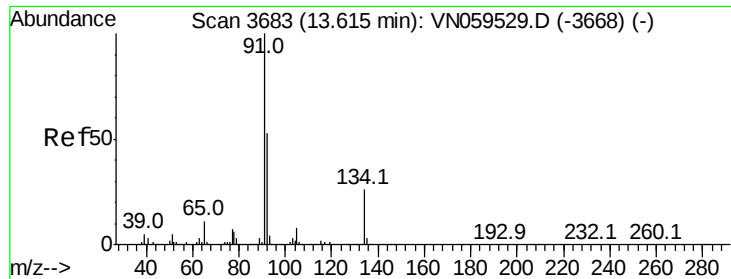
Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Tgt Ion:146 Resp: 2995

Ion	Ratio	Lower	Upper
146	100		
111	45.3	20.0	59.9
148	68.1	31.9	95.7





#89

n-Butylbenzene

Concen: 0.409 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

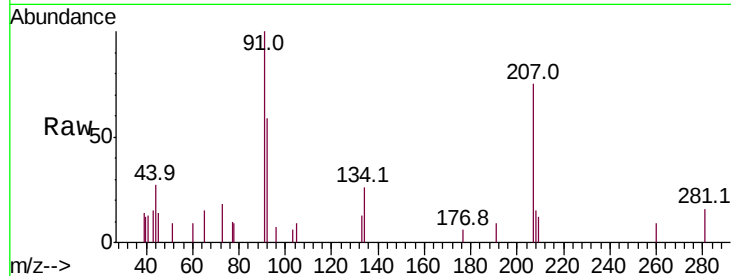
Tot Ion: 91 Resp: 4086

Ion Ratio Lower Upper

91 100

92 48.1 26.3 78.9

134 24.4 12.8 38.4

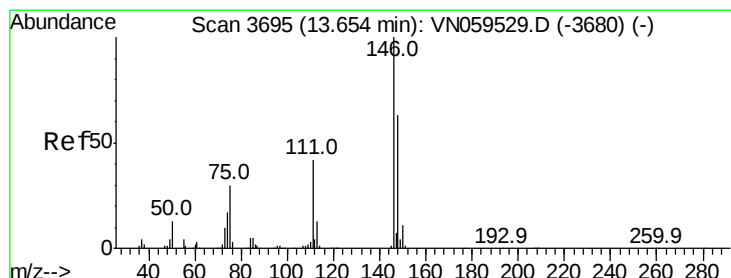
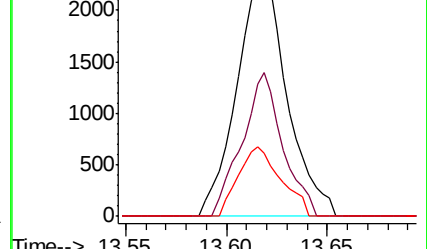
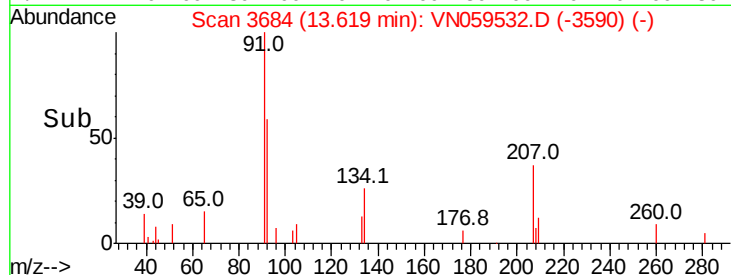


Abundance Ion 91.00 (90.70 to 91.70): VN059532.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN059532.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN059532.D (-3668) (-)

Time--> 13.55 13.60 13.65



#91

1,2-Dichlorobenzene

Concen: 0.605 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

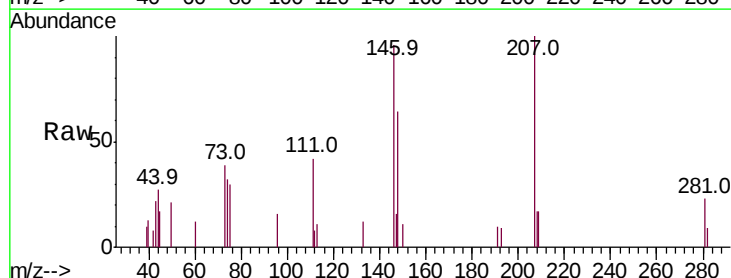
Tgt Ion: 146 Resp: 3305

Ion Ratio Lower Upper

146 100

111 41.7 20.9 62.7

148 62.3 31.6 94.8

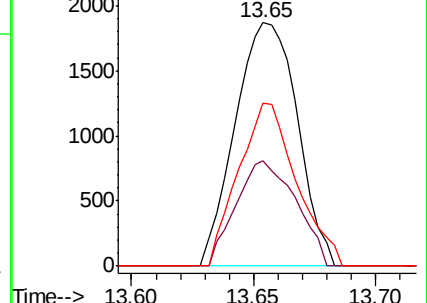
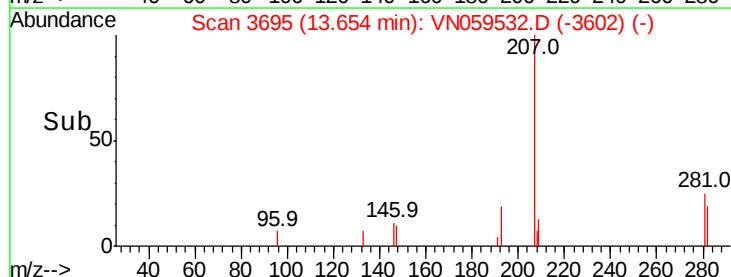


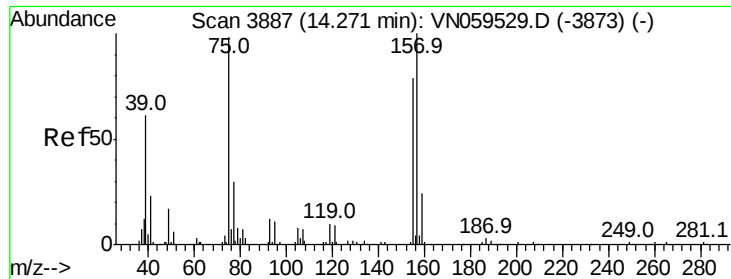
Abundance Ion 145.90 (145.60 to 146.60): VN059532.D (-3680) (-)

Ion 110.90 (110.60 to 111.60): VN059532.D (-3680) (-)

Ion 147.90 (147.60 to 148.60): VN059532.D (-3680) (-)

Time--> 13.60 13.65 13.70





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.661 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

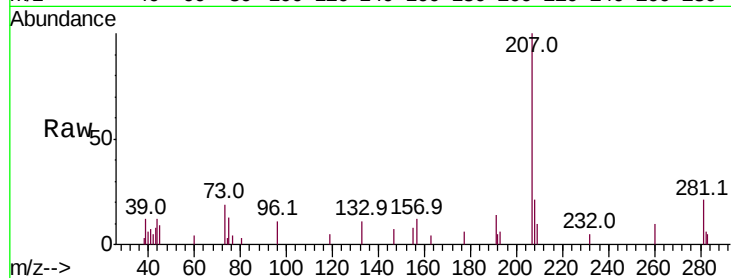
Tot Ion: 75 Resp: 1648

Ion Ratio Lower Upper

75 100

155 47.4 40.4 121.1

157 61.3 51.1 153.3

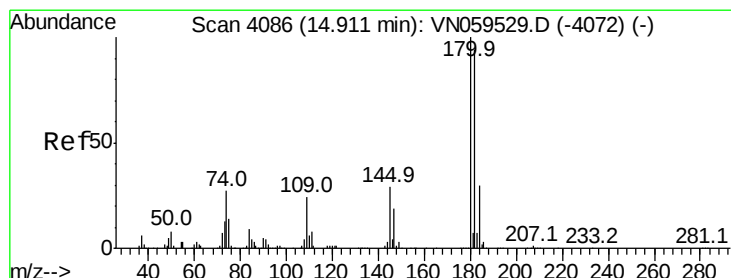
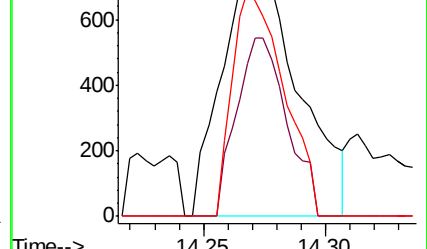
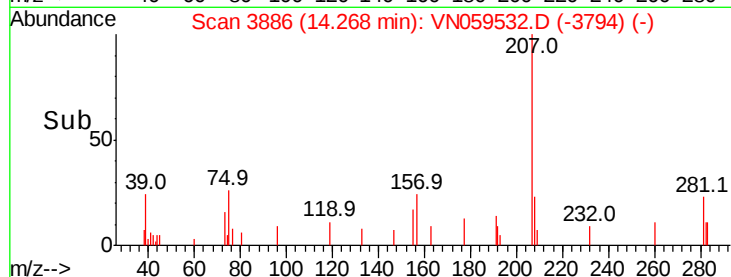


Abundance Ion 74.90 (74.60 to 75.60): VN059532.D (-3873) (-)

Ion 154.80 (154.50 to 155.50): VN059532.D (-3873) (-)

Ion 156.80 (156.50 to 157.50): VN059532.D (-3873) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 1.767 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

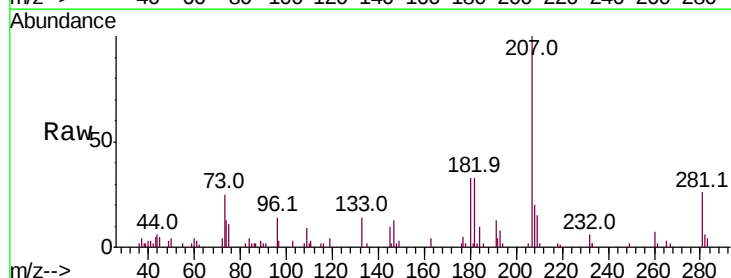
Tgt Ion: 180 Resp: 6072

Ion Ratio Lower Upper

180 100

182 96.2 47.3 142.0

145 35.2 14.9 44.7

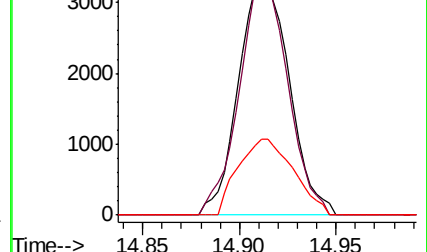
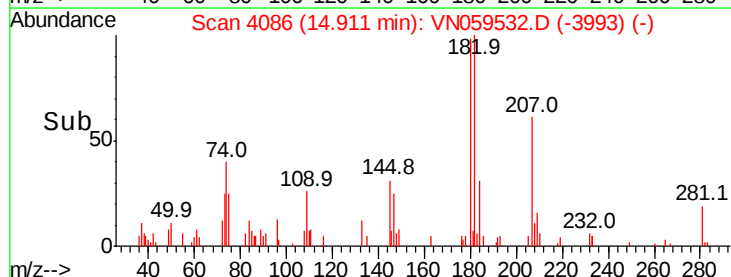


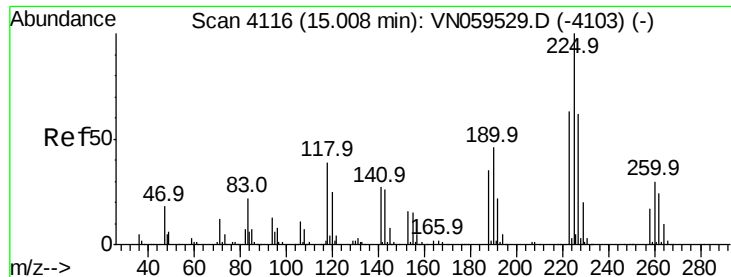
Abundance Ion 179.80 (179.50 to 180.50): VN059532.D (-4072) (-)

Ion 181.80 (181.50 to 182.50): VN059532.D (-4072) (-)

Ion 144.80 (144.50 to 145.50): VN059532.D (-4072) (-)

Time-->





#94

Hexachlorobutadiene

Concen: 1.174 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

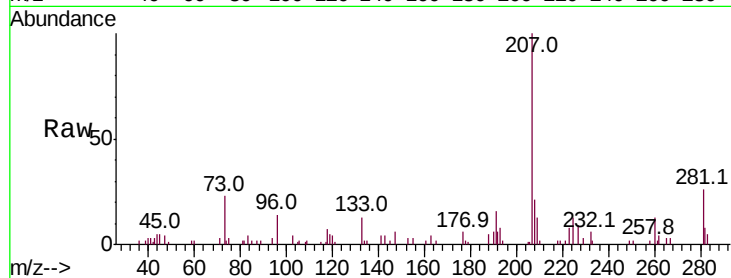
Tot Ion:225 Resp: 2512

Ion Ratio Lower Upper

225 100

223 64.8 31.3 93.9

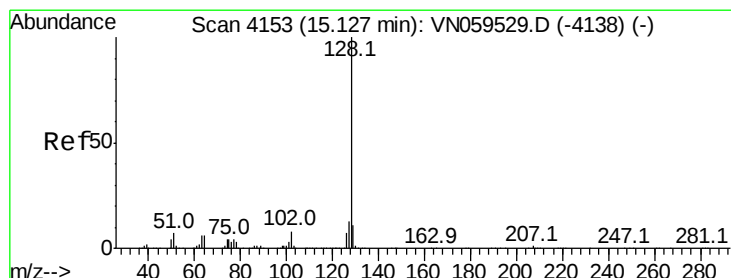
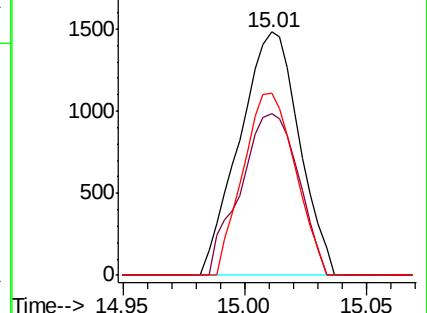
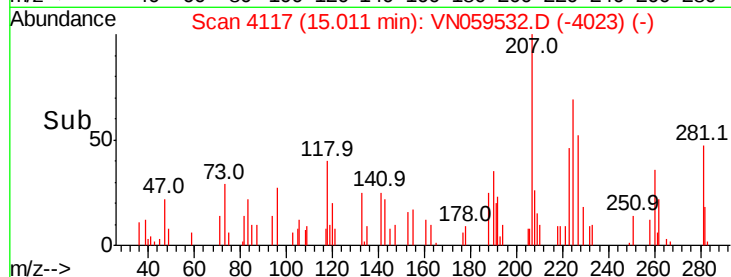
227 65.8 31.6 95.0



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: 2.591 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN059532.D

Acq: 9 Dec 2019 16:57

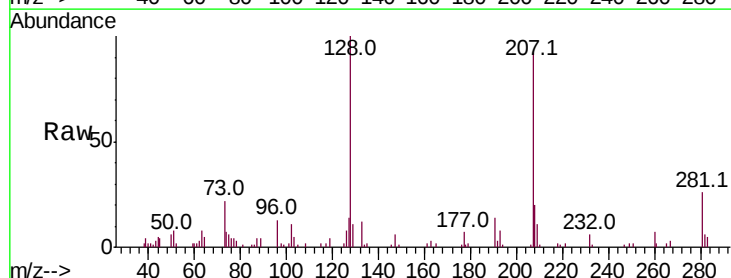
Tgt Ion:128 Resp: 26109

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.4

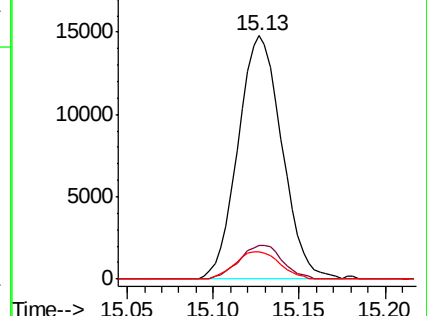
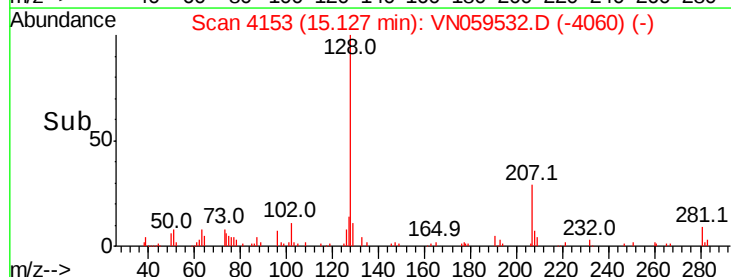
129 11.3 8.6 13.0

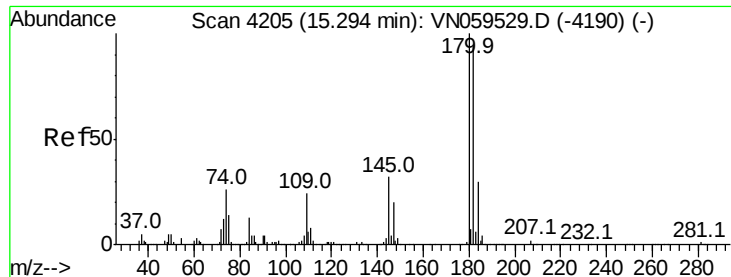


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

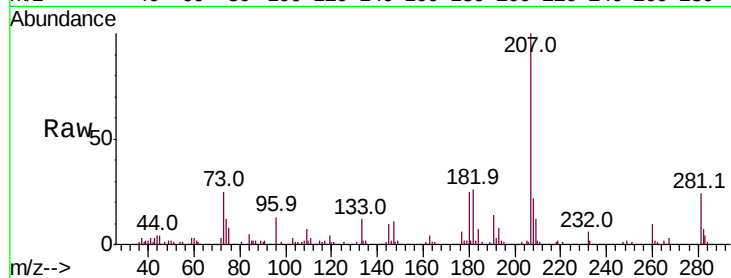




#96
 1,2,3-Trichlorobenzene
 Concen: 2.193 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. -0.00 min
 Lab File: VN059532.D
 Acq: 9 Dec 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.1	141.4
145	38.4	15.8	47.4



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

