

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056145.D
 Acq On : 8 Jun 2019 11:37
 Operator : JC/SP
 Sample : K3225-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP19-CHY02

Quant Time: Jun 10 01:24:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	315456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	478422	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	455070	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150912	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	166610	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
35) Dibromofluoromethane	7.59	113	146536	49.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.84%	
50) Toluene-d8	10.09	98	608374	53.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.72%	
62) 4-Bromofluorobenzene	12.40	95	197426	51.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.80%	

Target Compounds

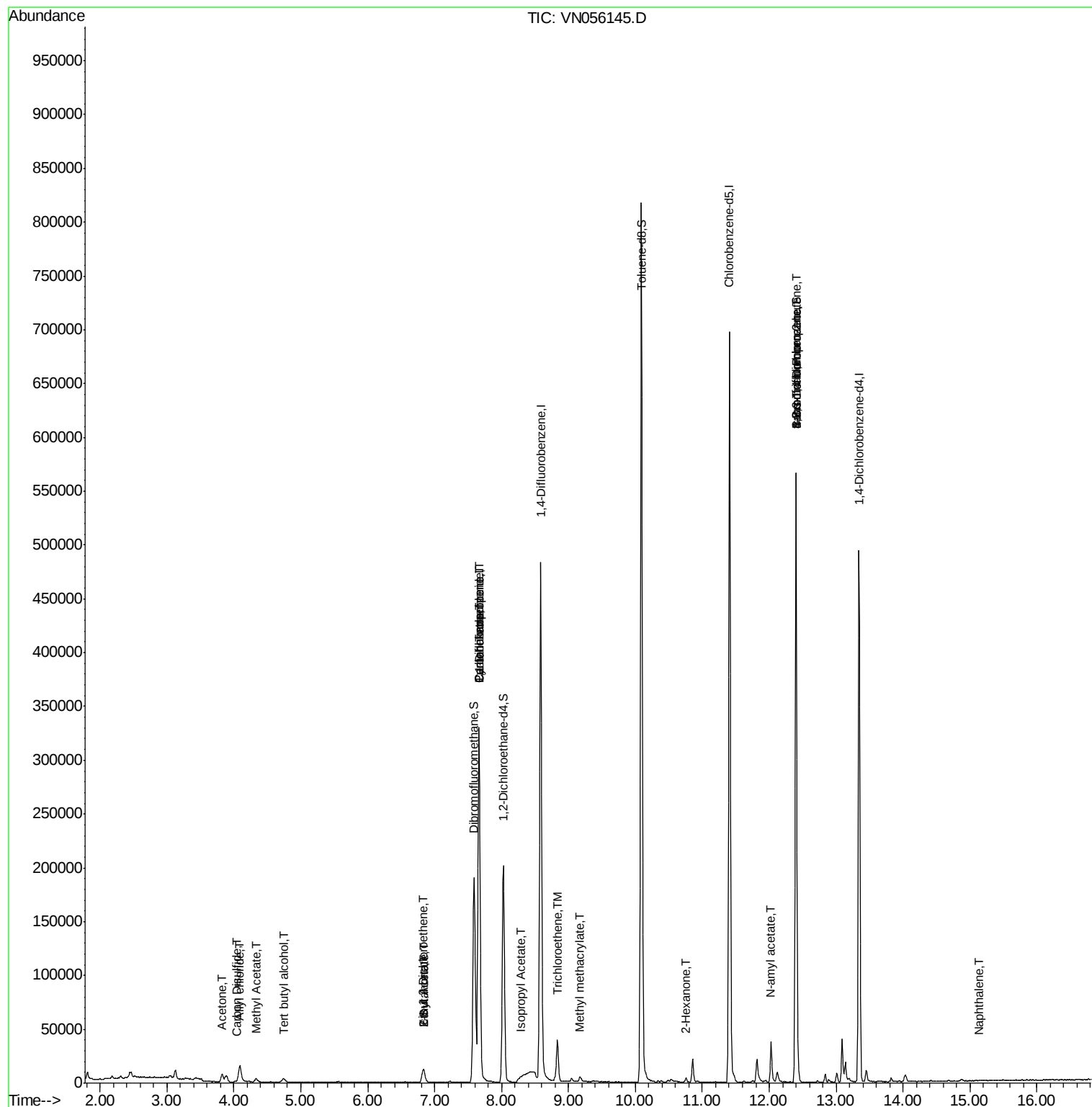
						Qvalue
11) Tert butyl alcohol	4.74	59	3318	6.087	ug/l #	74
14) Allyl chloride	4.09	41	2606	0.623	ug/l #	70
16) Acetone	3.82	43	12494	8.340	ug/l	94
17) Carbon Disulfide	4.04	76	2056	0.324	ug/l #	74
18) Methyl Acetate	4.33	43	6916	1.793	ug/l #	88
25) 2-Butanone	6.85	43	3873	2.046	ug/l #	89
27) cis-1,2-Dichloroethene	6.83	96	7390	2.216	ug/l	90
31) Cyclohexane	7.66	56	4394	0.884	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18312	4.451	ug/l #	47
37) Ethyl Acetate	6.85	43	3873	1.058	ug/l #	67
38) Carbon Tetrachloride	7.67	117	25769	6.794	ug/l #	15
43) Isopropyl Acetate	8.28	43	4955	0.835	ug/l #	53
44) Trichloroethene	8.83	130	16074	4.477	ug/l	97
48) Methyl methacrylate	9.17	41	1351	0.466	ug/l #	34
59) 2-Hexanone	10.75	43	3155	1.174	ug/l	82
71) Bromoform	12.40	173	1472	3.272	ug/l #	1
74) N-amyl acetate	12.03	43	25193	6.263	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	91201	32.843	ug/l #	100
79) 2-Chlorotoluene	12.59	91	30	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	91201	109.375	ug/l #	15
95) Naphthalene	15.14	128	674	3.937	ug/l #	69

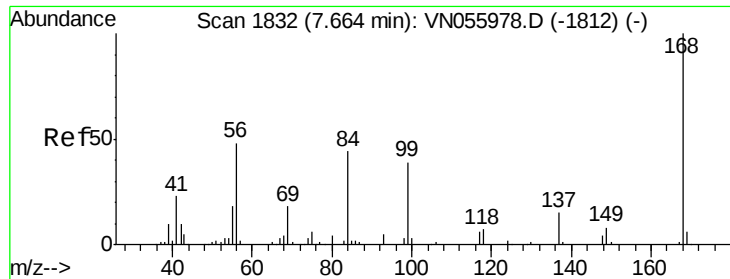
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

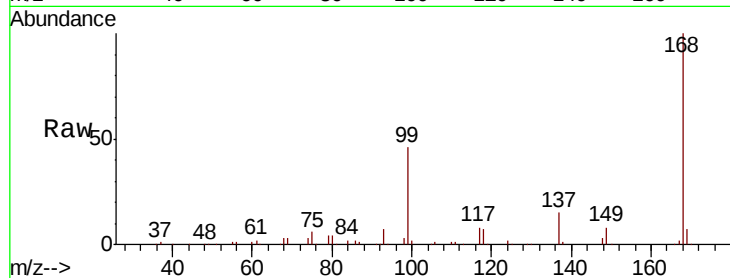
SP19-CHY02

Tot Ion:168 Resp: 315456

Ion Ratio Lower Upper

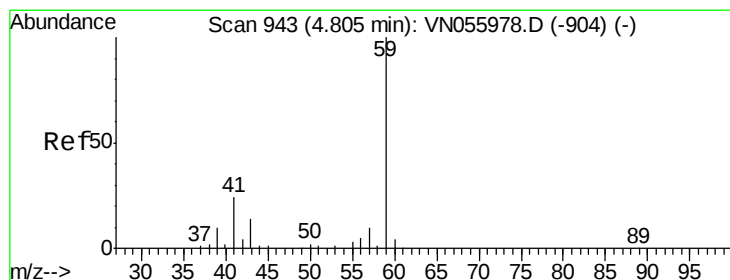
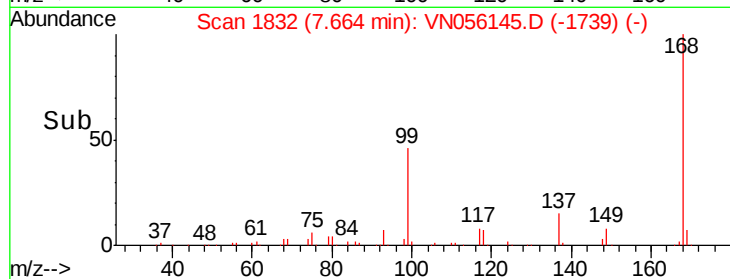
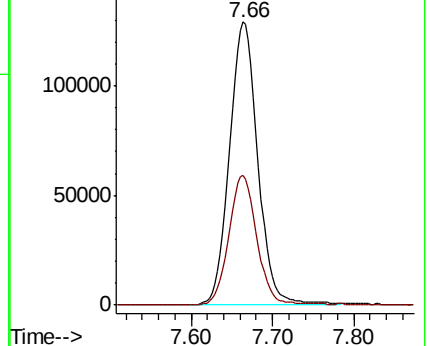
168 100

99 45.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 6.087 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056145.D

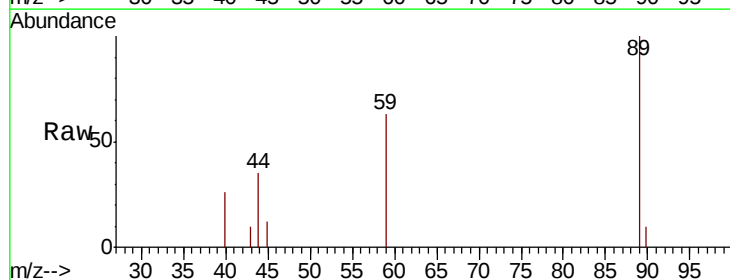
Acq: 8 Jun 2019 11:37

Tgt Ion: 59 Resp: 3318

Ion Ratio Lower Upper

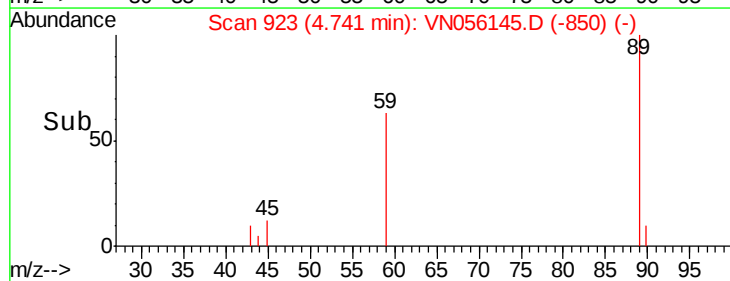
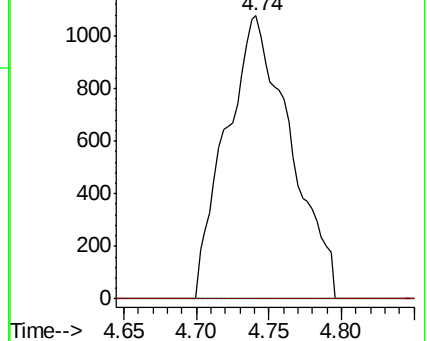
59 100

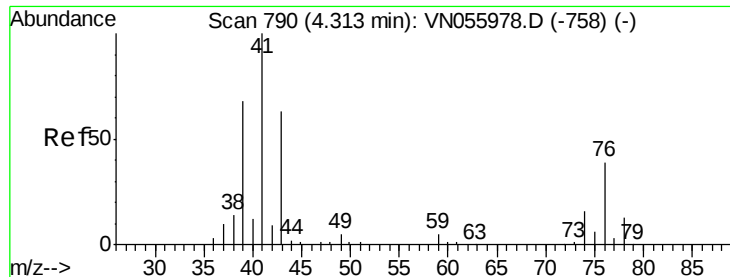
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#14

Allvl chloride

Concen: 0.623 ug/l

RT: 4.09 min Scan# 720

Delta R.T. -0.23 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

SP19-CHY02

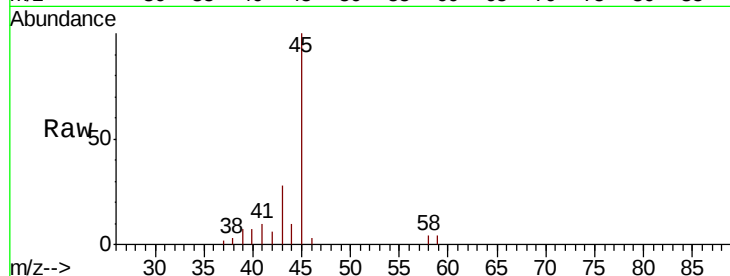
Tot Ion: 41 Resp: 2606

Ion Ratio Lower Upper

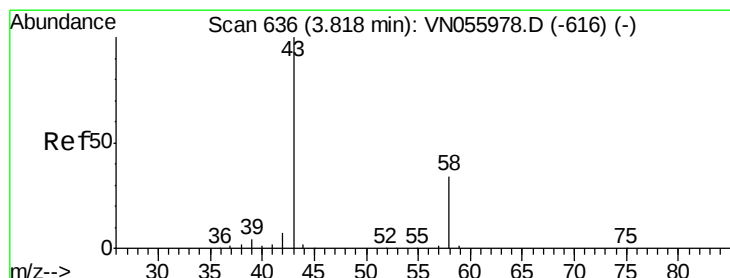
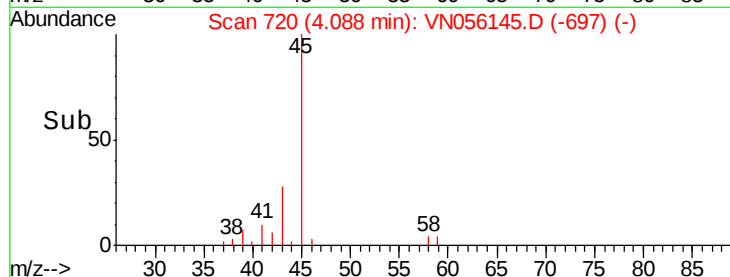
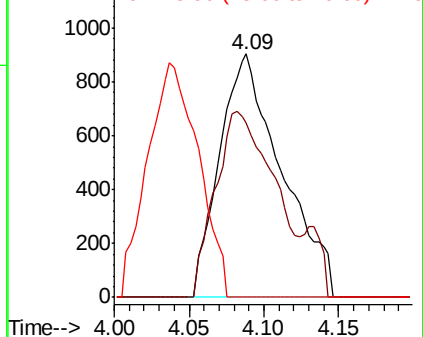
41 100

39 72.7 50.0 75.0

76 0.0 28.2 42.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO



#16

Acetone

Concen: 8.340 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056145.D

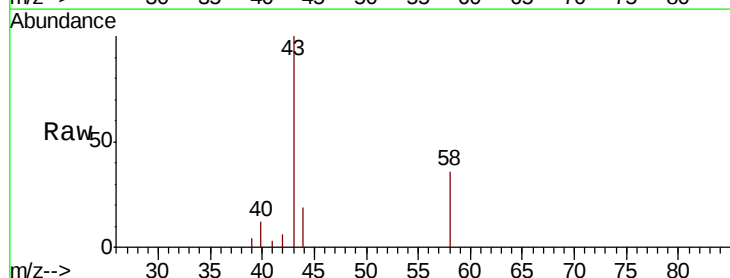
Acq: 8 Jun 2019 11:37

Tgt Ion: 43 Resp: 12494

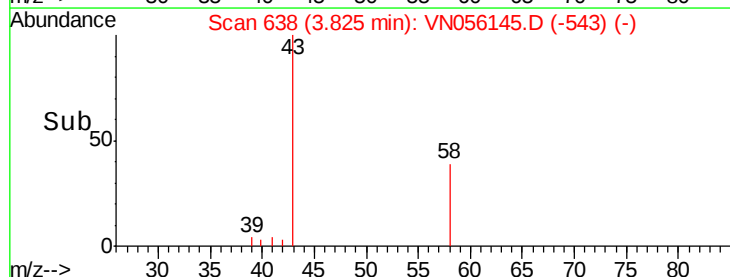
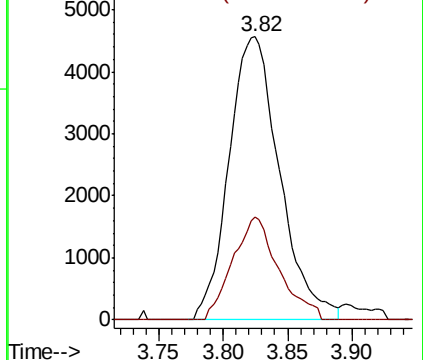
Ion Ratio Lower Upper

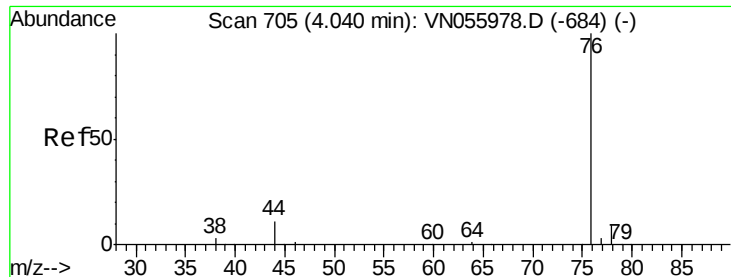
43 100

58 36.5 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

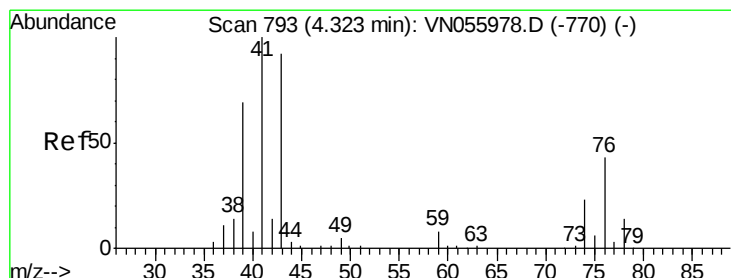
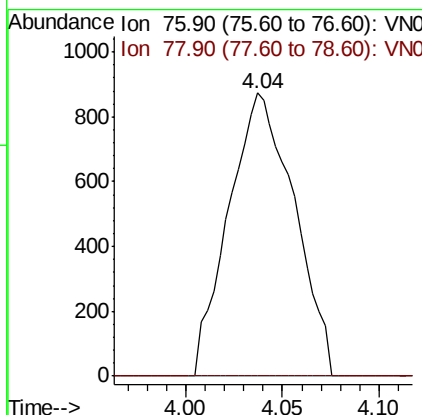
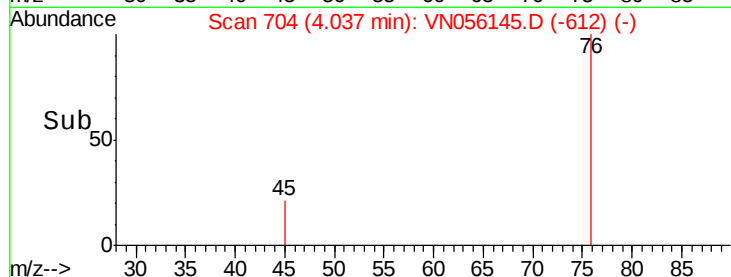
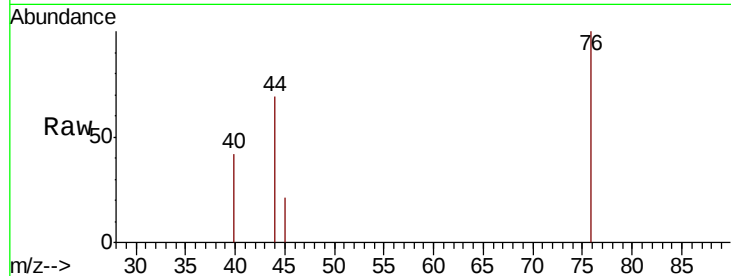




#17
Carbon Disulfide
Concen: 0.324 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.00 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

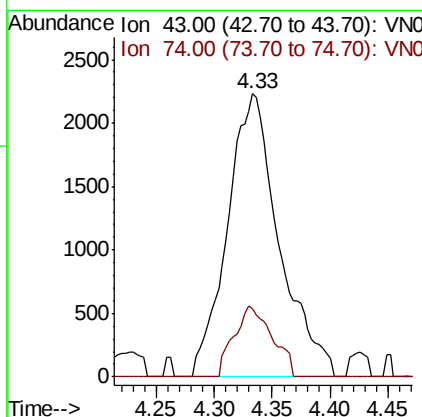
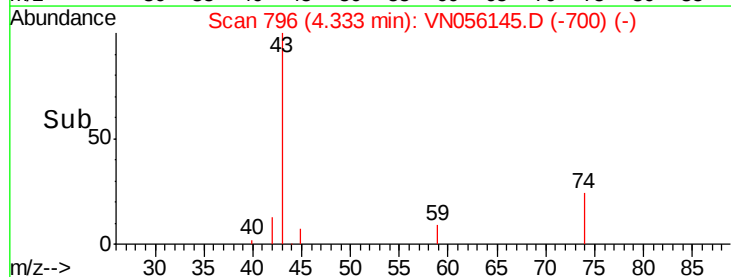
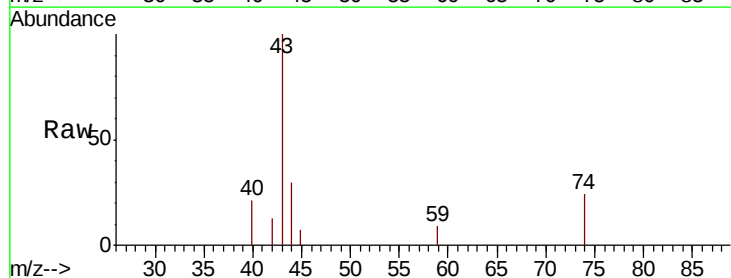
Instrument :
MSVOA_N
ClientSampled :
SP19-CHY02

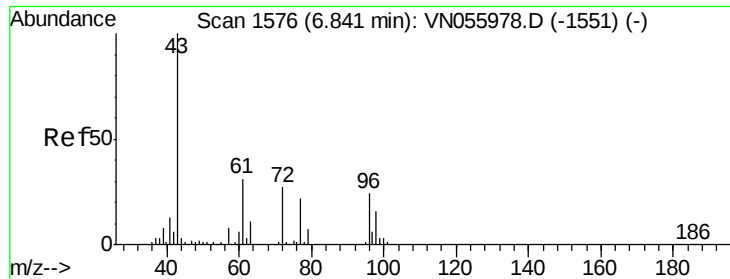
Tot Ion: 76 Resp: 2056
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 1.793 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Tgt Ion: 43 Resp: 6916
Ion Ratio Lower Upper
43 100
74 18.4 19.3 28.9#

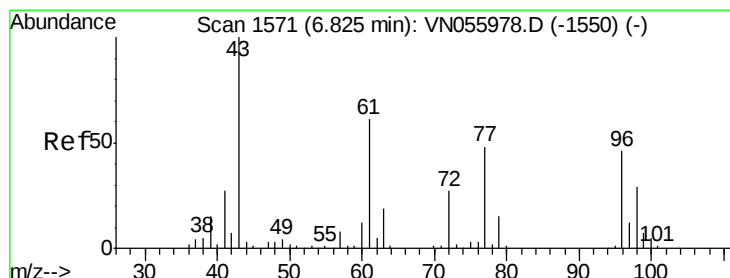
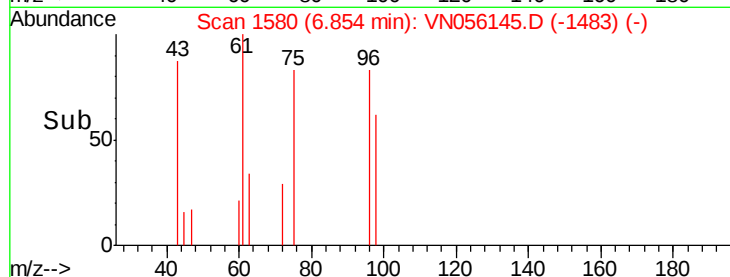
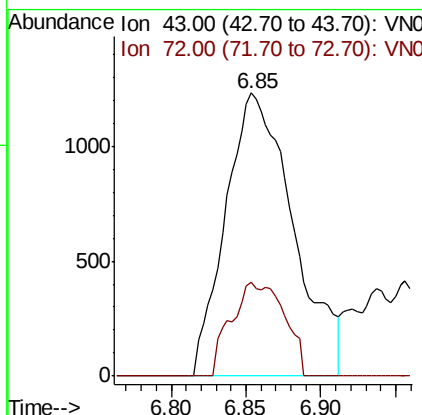
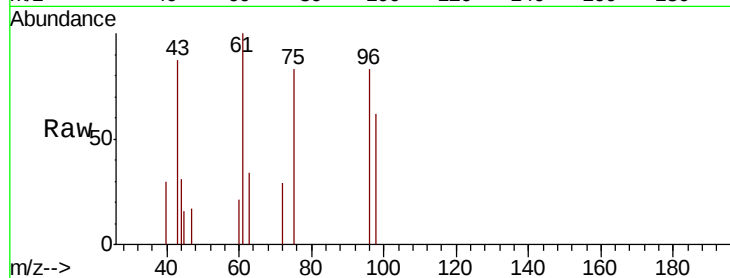




#25
2-Butanone
Concen: 2.046 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

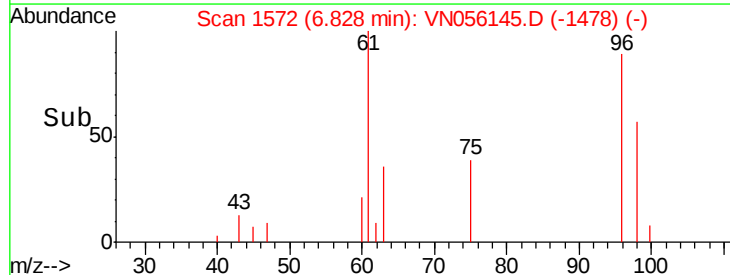
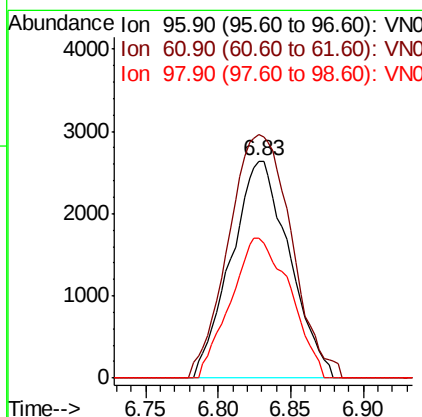
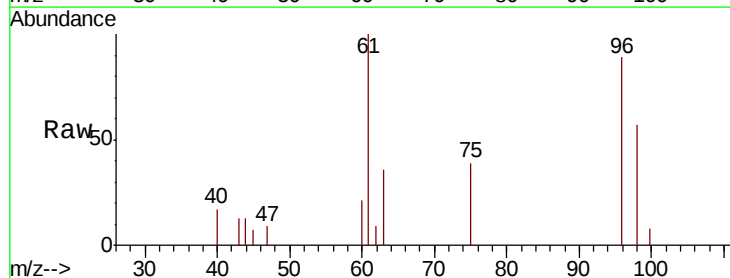
Instrument :
MSVOA_N
ClientSampled :
SP19-CHY02

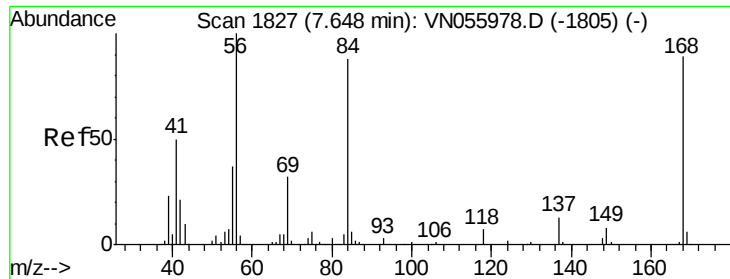
Tot Ion: 43 Resp: 3873
Ion Ratio Lower Upper
43 100
72 33.1 21.9 32.9#



#27
cis-1,2-Dichloroethene
Concen: 2.216 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Tgt Ion: 96 Resp: 7390
Ion Ratio Lower Upper
96 100
61 121.0 0.0 275.8
98 65.5 0.0 128.4

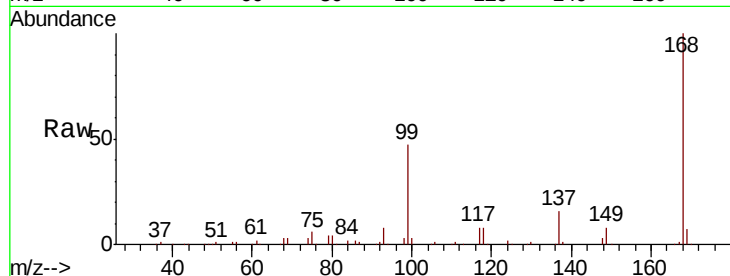




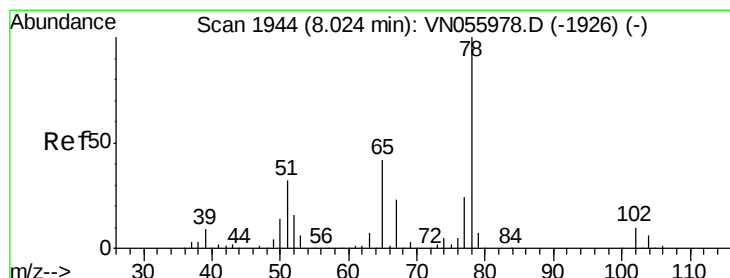
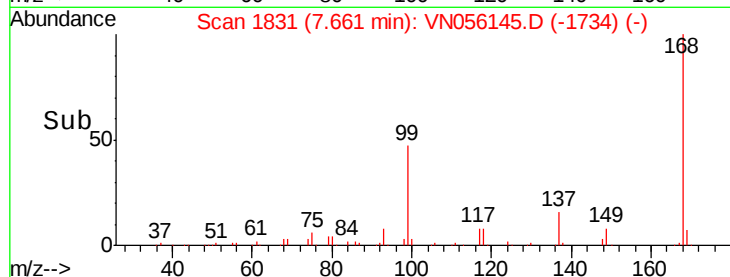
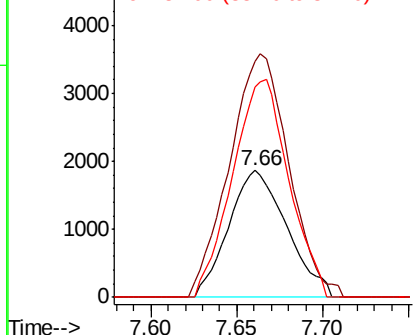
#31
Cyclohexane
Concen: 0.884 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
SP19-CHY02

Tot Ion: 56 Resp: 4394
Ion Ratio Lower Upper
56 100
69 186.4 25.6 38.4#
84 166.3 67.4 101.0#

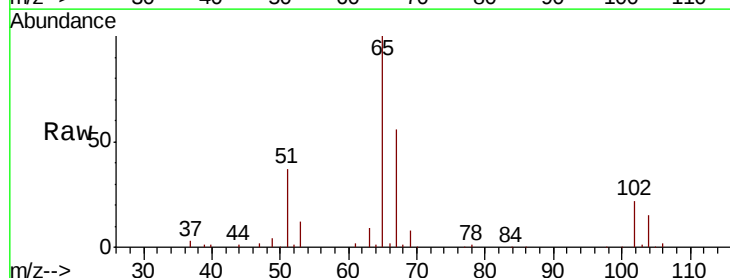


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

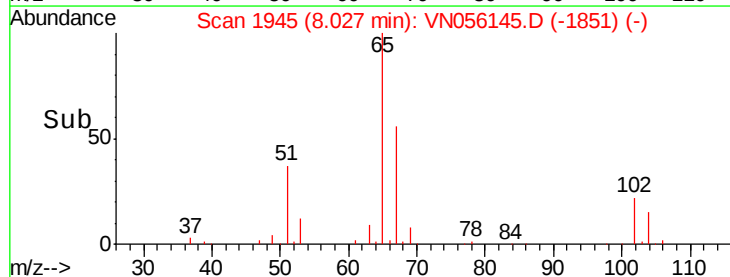
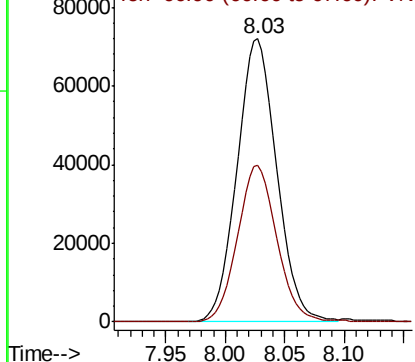


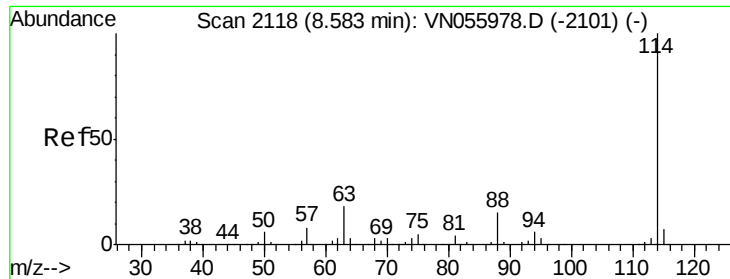
#33
1,2-Dichloroethane-d4
Concen: 53.192 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Tgt Ion: 65 Resp: 166610
Ion Ratio Lower Upper
65 100
67 54.6 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

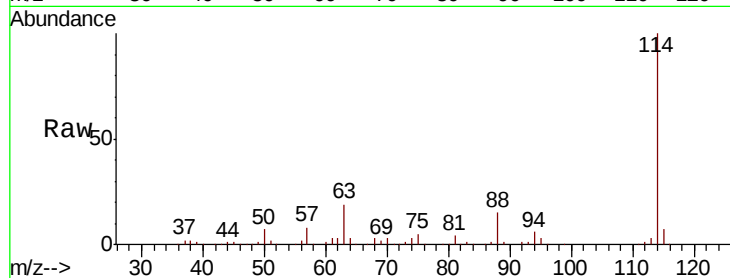




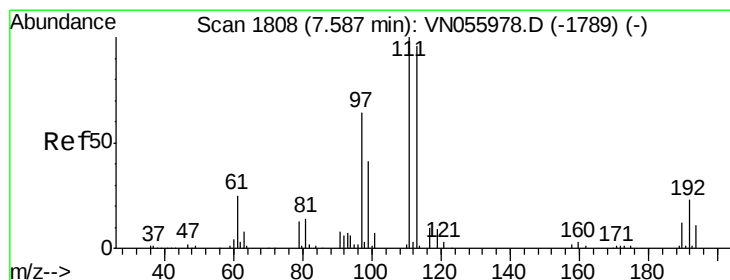
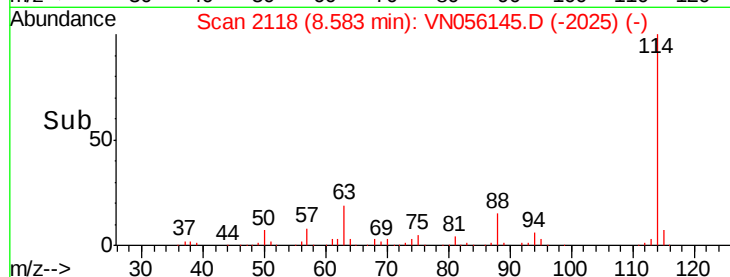
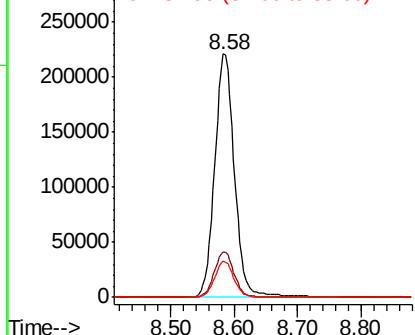
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056145.D
 Acq: 8 Jun 2019 11:37

Instrument :
 MSVOA_N
 ClientSampleId :
 SP19-CHY02

Tot Ion:114 Resp: 478422
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 14.9 0.0 31.0

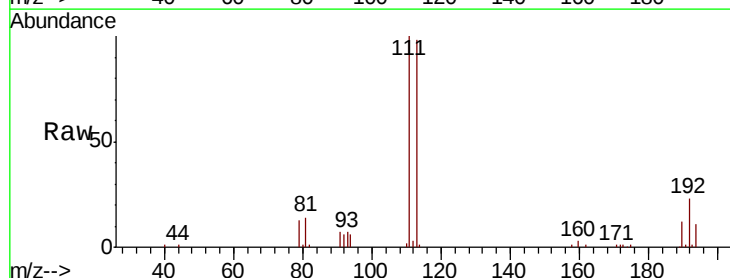


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

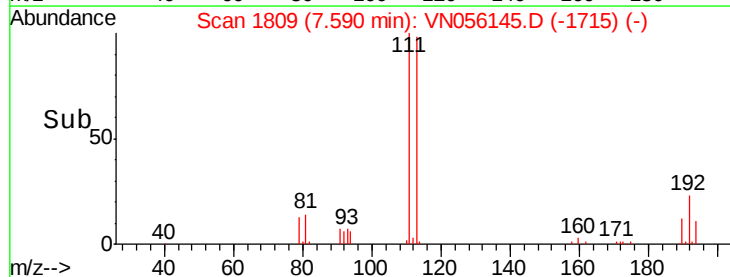
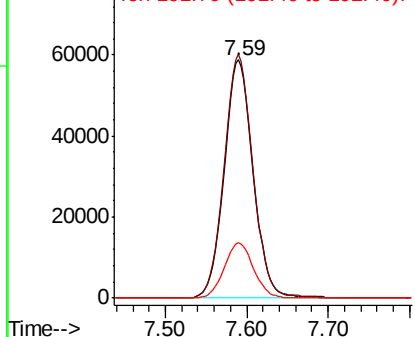


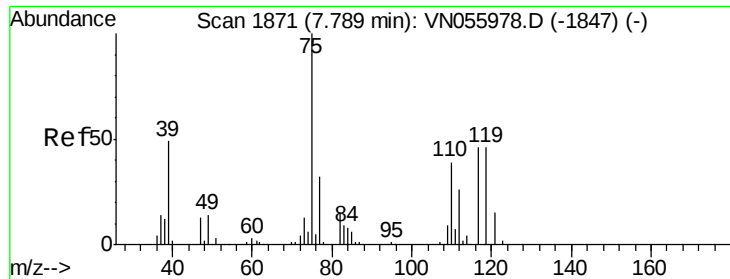
#35
 Dibromofluoromethane
 Concen: 49.922 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056145.D
 Acq: 8 Jun 2019 11:37

Tgt Ion:113 Resp: 146536
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.9 122.9
 192 23.5 19.5 29.3



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: 4.451 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

SP19-CHY02

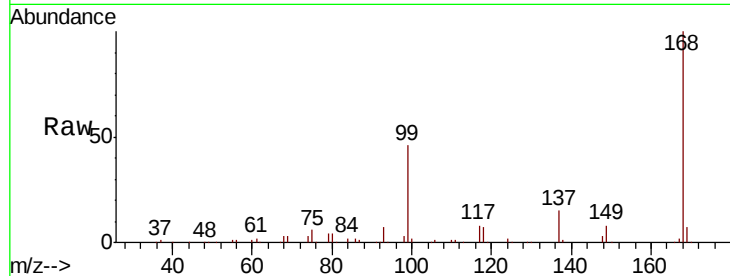
Tot Ion: 75 Resp: 18312

Ion Ratio Lower Upper

75 100

110 8.1 19.0 57.0#

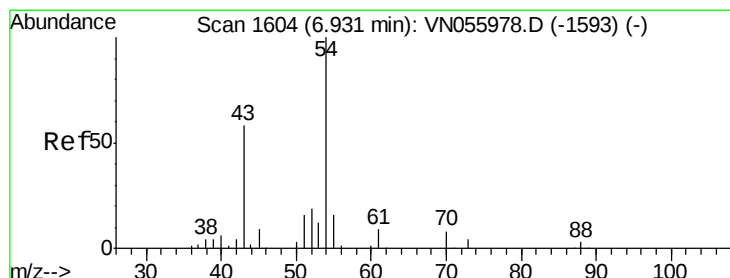
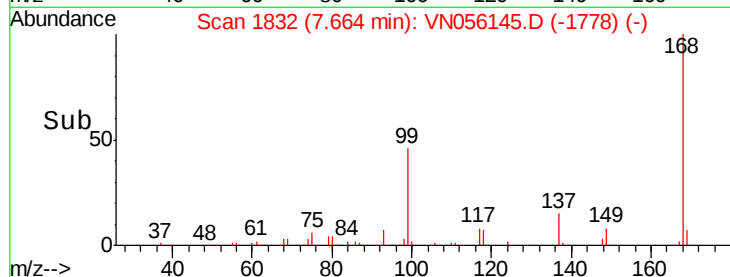
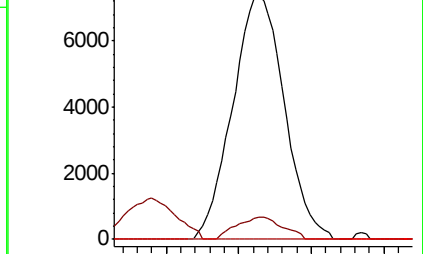
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)

Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)

Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)



#37

Ethyl Acetate

Concen: 1.058 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. -0.08 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

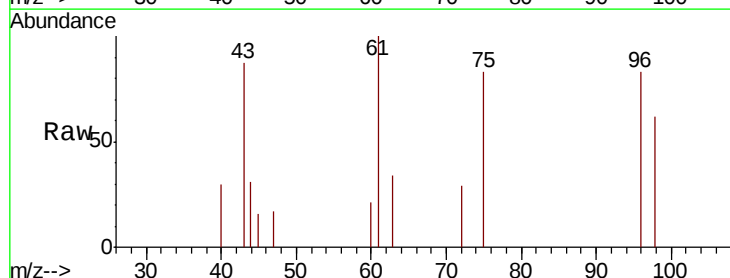
Tgt Ion: 43 Resp: 3873

Ion Ratio Lower Upper

43 100

61 0.0 12.2 18.2#

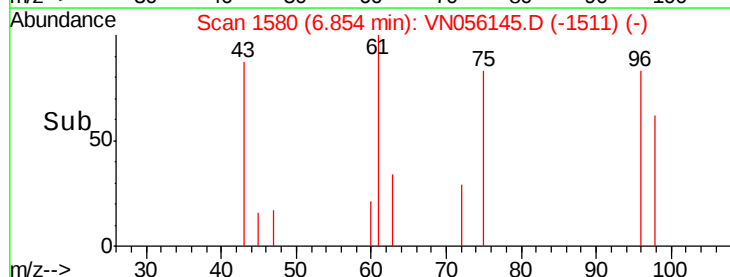
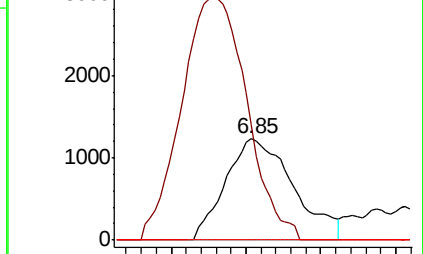
70 0.0 8.9 13.3#

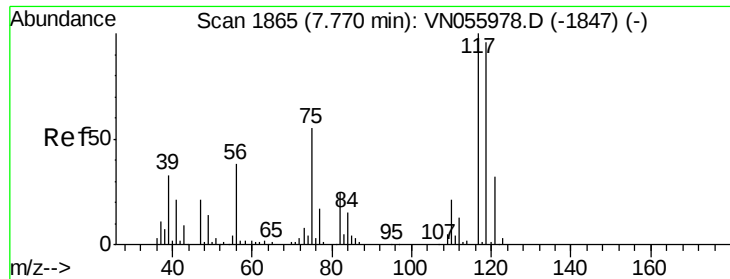


Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1593) (-)

Ion 60.90 (60.60 to 61.60): VN055978.D (-1593) (-)

Ion 70.00 (69.70 to 70.70): VN055978.D (-1593) (-)





#38

Carbon Tetrachloride

Concen: 6.794 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

SP19-CHY02

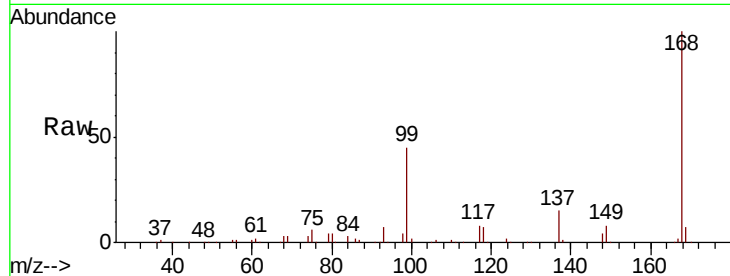
Tot Ion:117 Resp: 25769

Ion Ratio Lower Upper

117 100

119 5.1 79.0 118.6#

121 0.0 24.7 37.1#

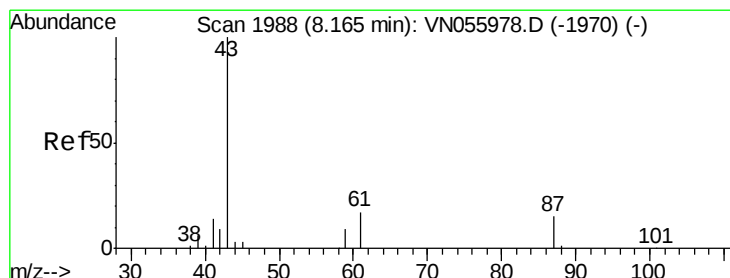
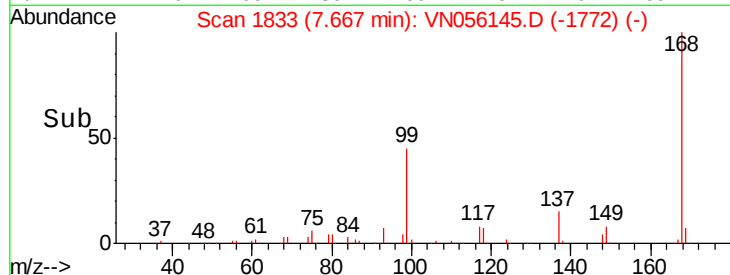
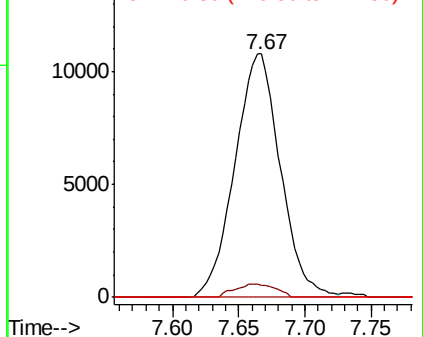


Abundance

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



#43

Isopropyl Acetate

Concen: 0.835 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.12 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

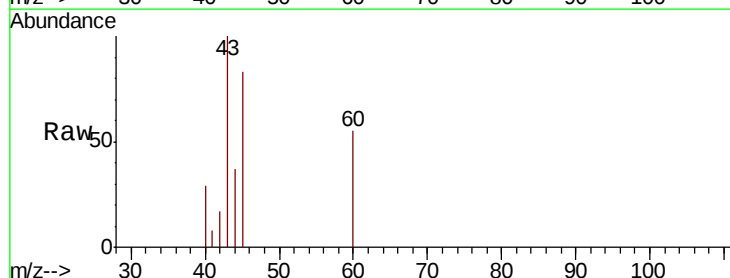
Tgt Ion: 43 Resp: 4955

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#

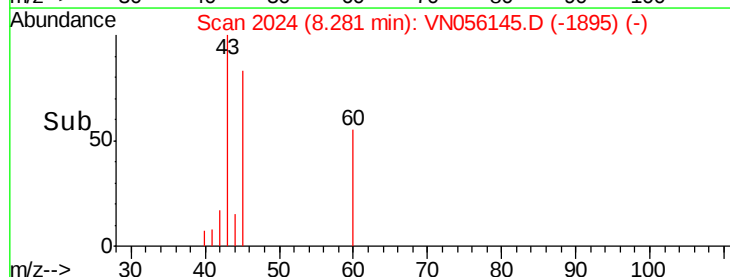
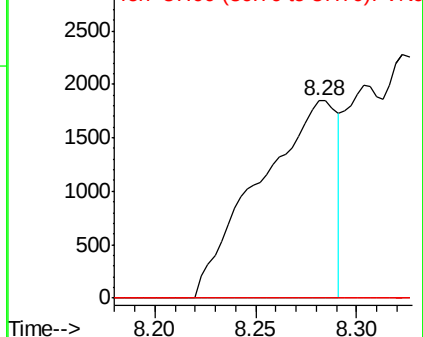


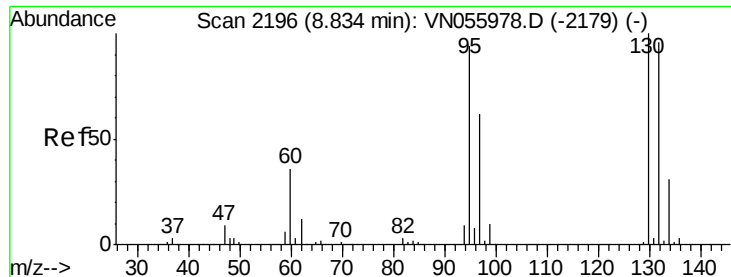
Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#44

Trichloroethene

Concen: 4.477 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

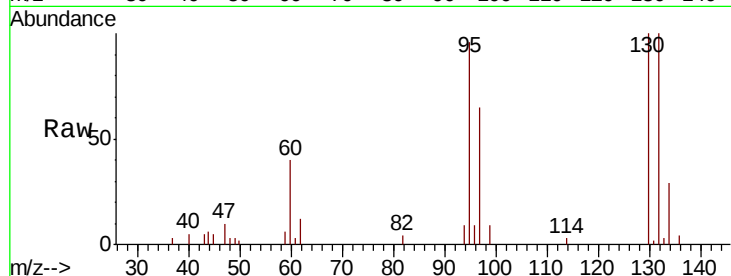
SP19-CHY02

Tot Ion:130 Resp: 16074

Ion Ratio Lower Upper

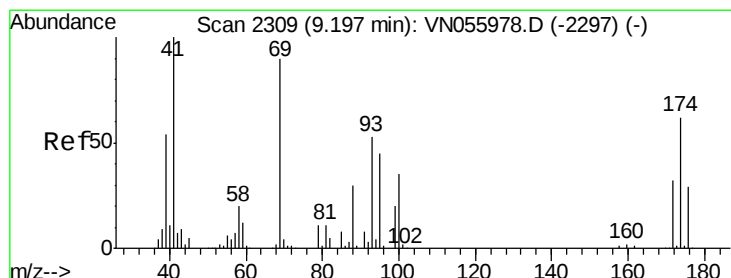
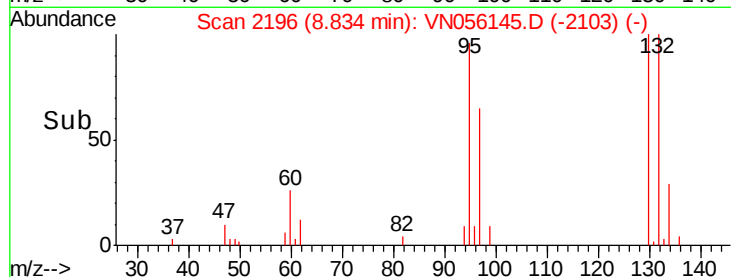
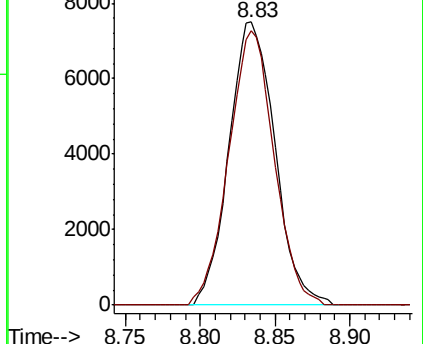
130 100

95 96.8 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#48

Methyl methacrylate

Concen: 0.466 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

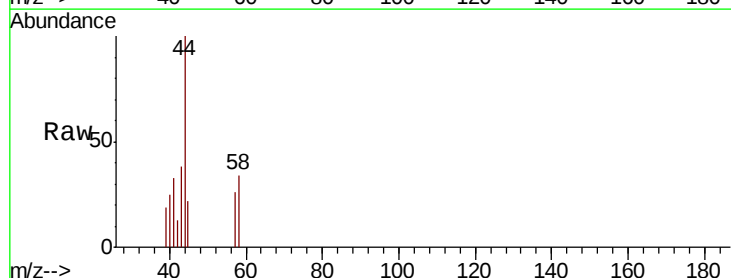
Tgt Ion: 41 Resp: 1351

Ion Ratio Lower Upper

41 100

69 0.0 71.0 106.6#

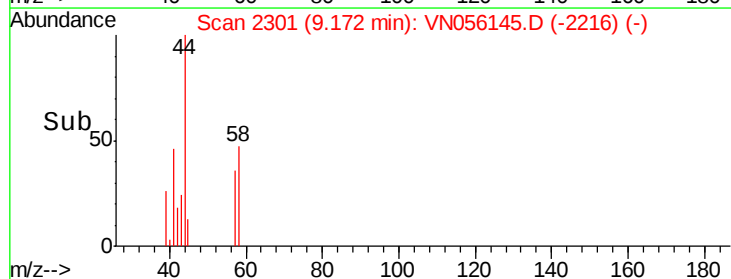
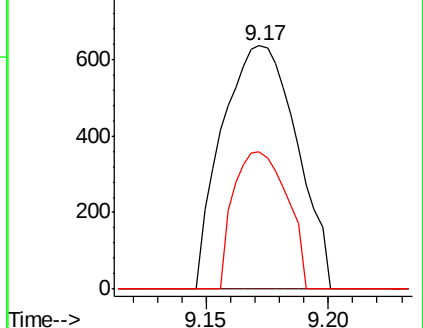
39 40.4 44.2 66.2#

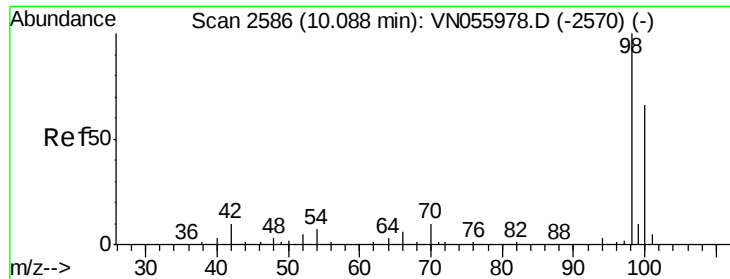


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 39.00 (38.70 to 39.70): VN





#50

Toluene-d8

Concen: 53.862 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

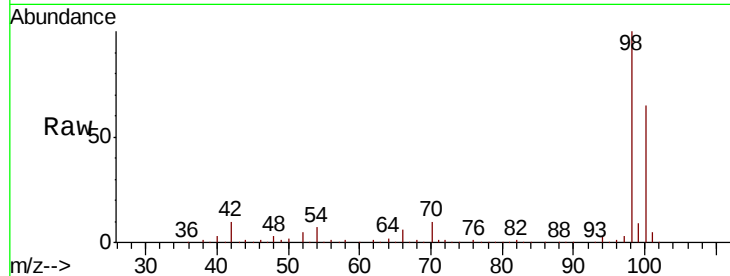
SP19-CHY02

Tot Ion: 98 Resp: 608374

Ion Ratio Lower Upper

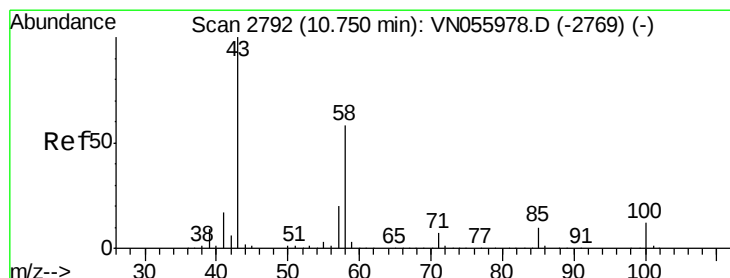
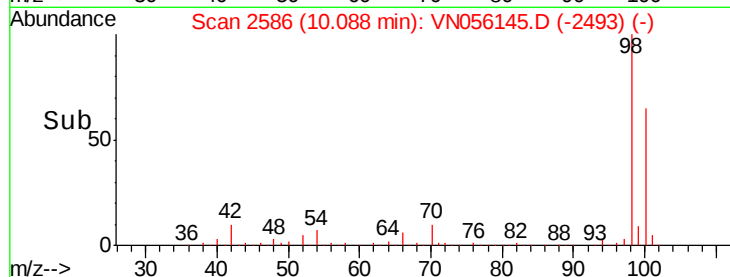
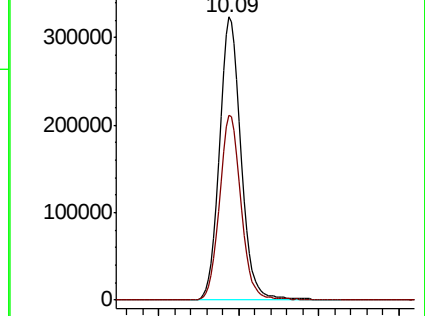
98 100

100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 1.174 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN056145.D

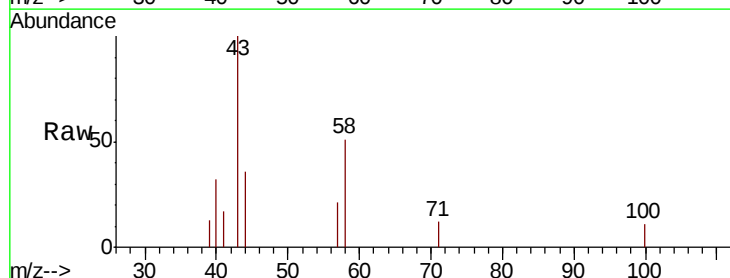
Acq: 8 Jun 2019 11:37

Tgt Ion: 43 Resp: 3155

Ion Ratio Lower Upper

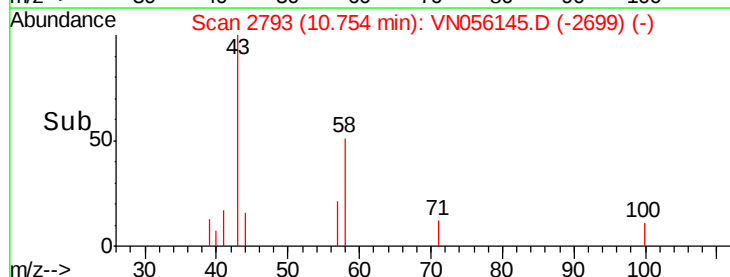
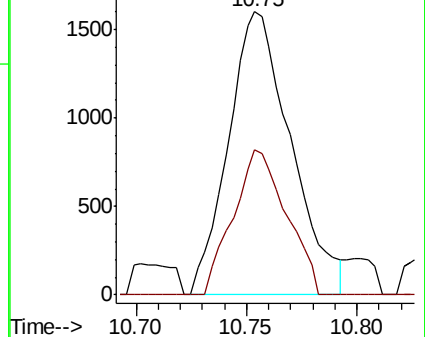
43 100

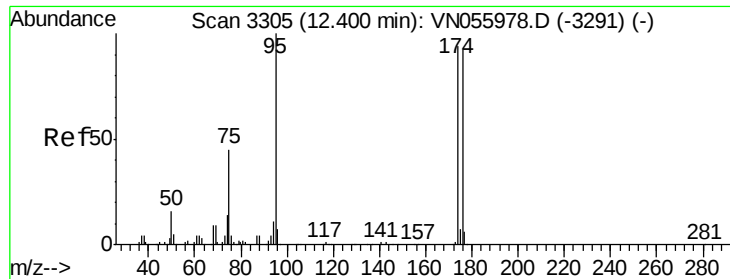
58 43.5 28.2 84.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

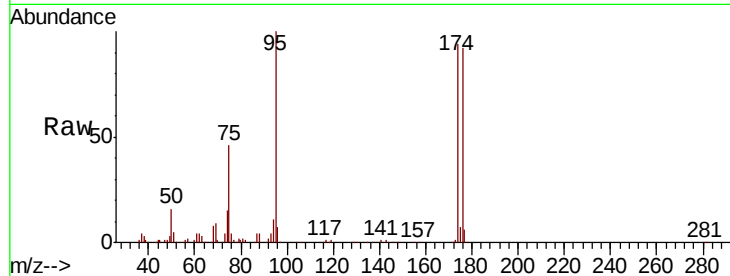




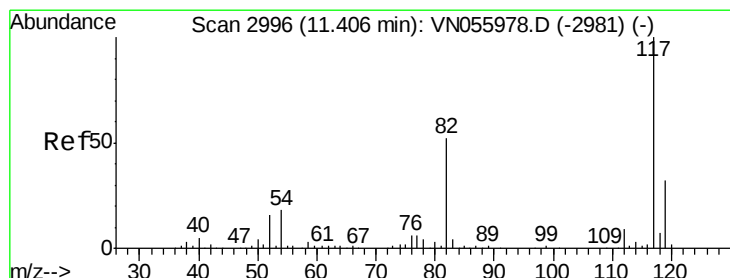
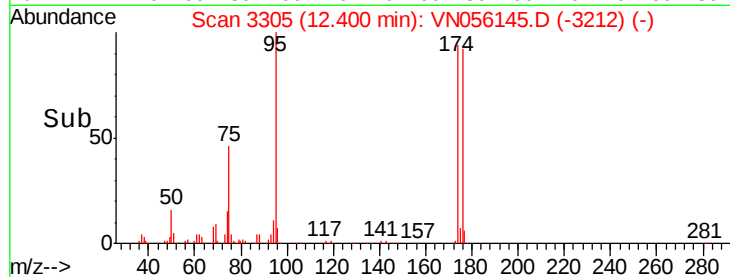
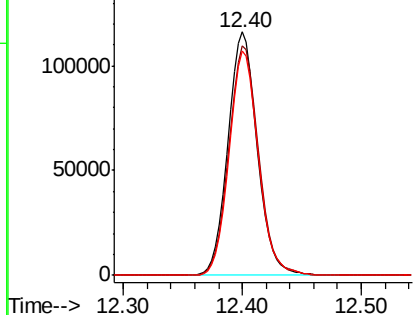
#62
4-Bromofluorobenzene
Concen: 51.398 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Instrument :
MSVOA_N
ClientSampleId :
SP19-CHY02

Tot Ion: 95 Resp: 197426
Ion Ratio Lower Upper
95 100
174 96.1 0.0 191.0
176 92.4 0.0 185.2

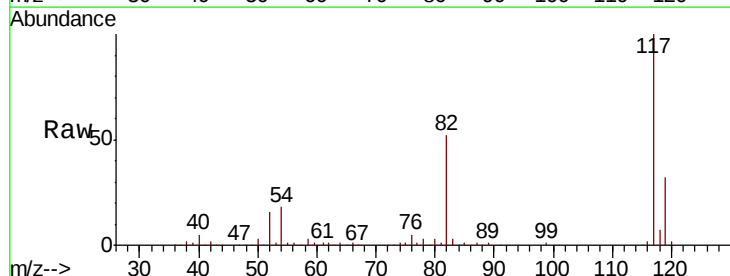


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

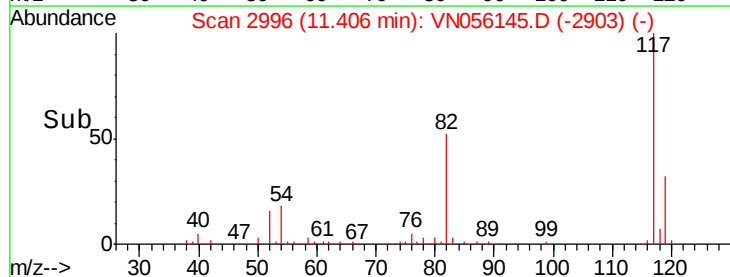
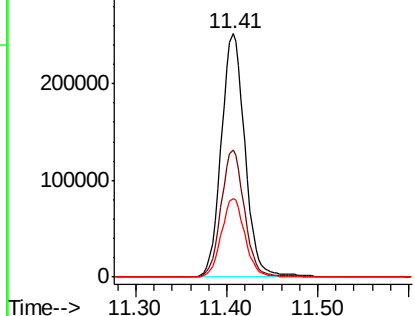


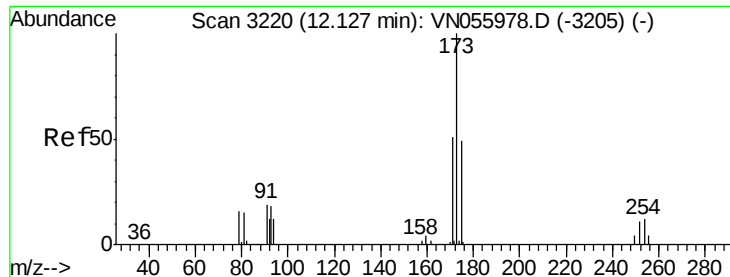
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Tgt Ion: 117 Resp: 455070
Ion Ratio Lower Upper
117 100
82 52.1 41.8 62.8
119 32.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

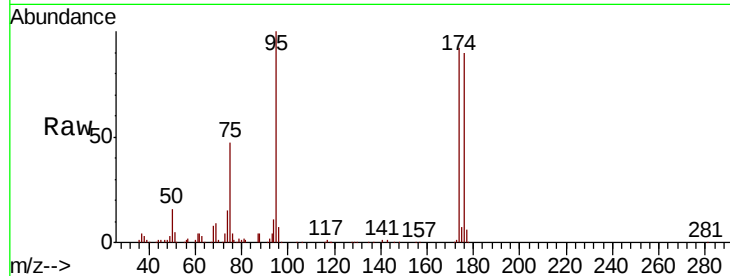




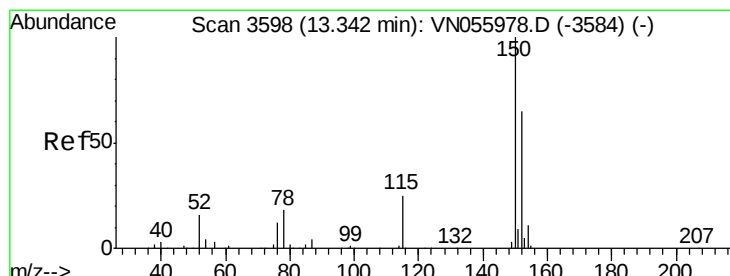
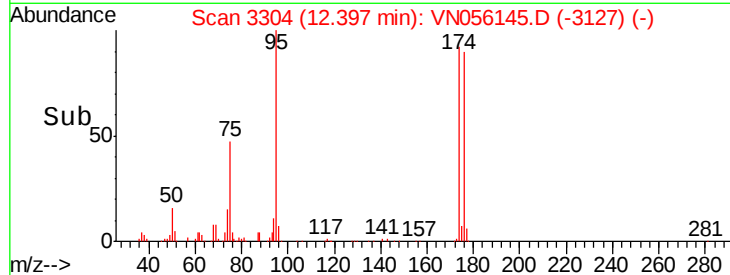
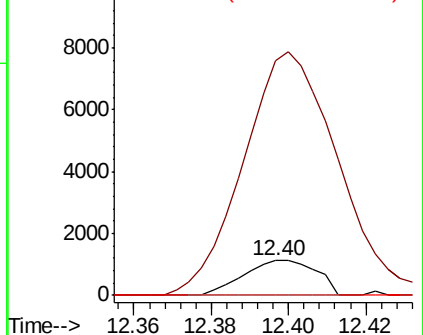
#71
Bromoform
Concen: 3.272 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Instrument :
MSVOA_N
ClientSampled :
SP19-CHY02

Tot Ion:173 Resp: 1472
Ion Ratio Lower Upper
173 100
175 793.3 24.3 72.8#
254 0.0 0.0 0.0

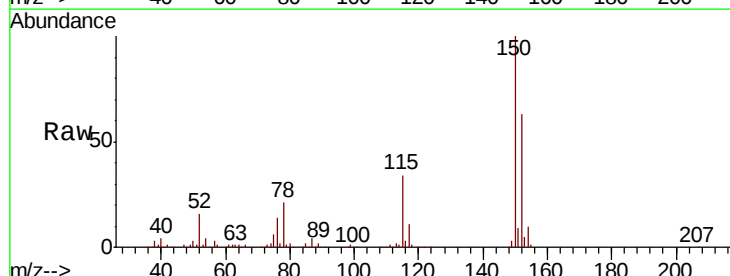


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

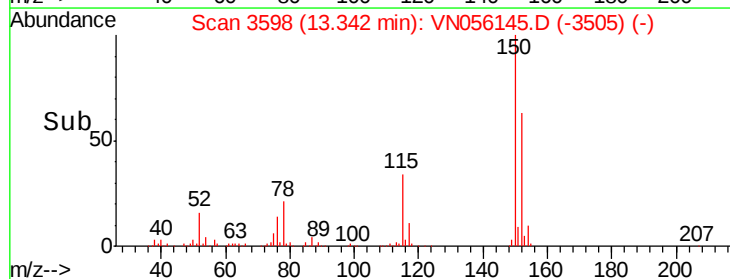
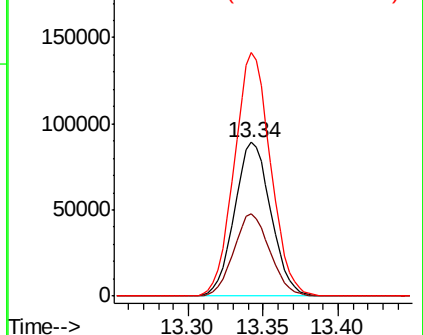


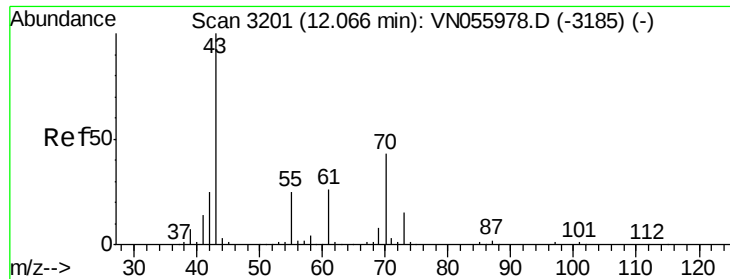
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056145.D
Acq: 8 Jun 2019 11:37

Tgt Ion:152 Resp: 150912
Ion Ratio Lower Upper
152 100
115 53.2 27.0 81.0
150 158.0 0.0 343.2



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: 6.263 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

SP19-CHY02

Tot Ion: 43 Resp: 25193

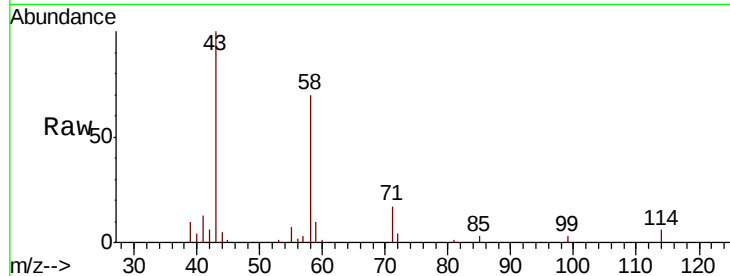
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 7.3 18.6 28.0#

61 0.0 20.0 30.0#

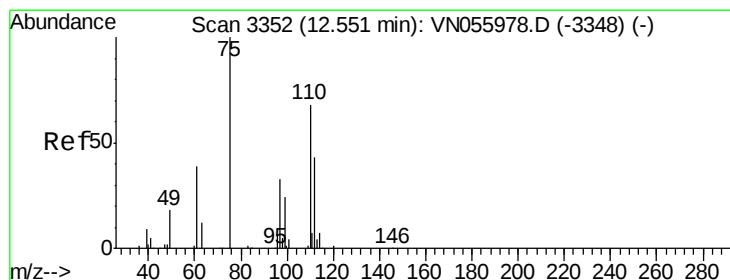
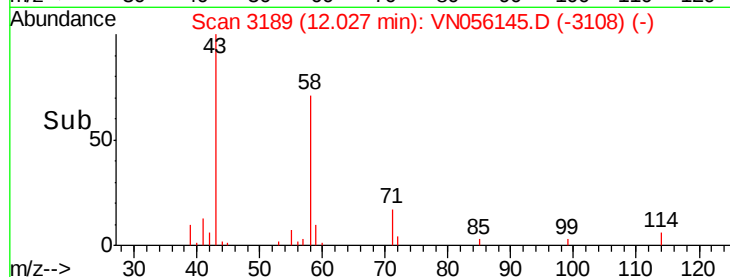
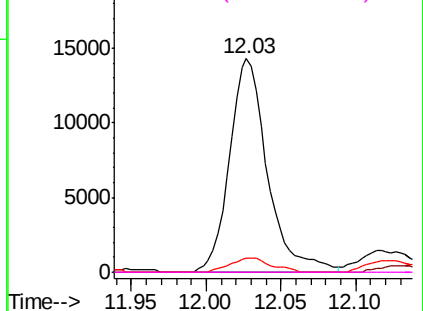


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 32.843 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056145.D

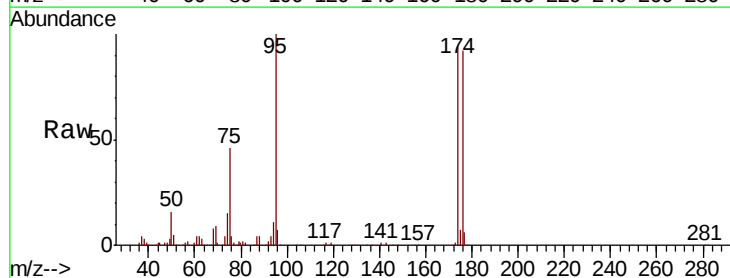
Acq: 8 Jun 2019 11:37

Tgt Ion: 75 Resp: 91201

Ion Ratio Lower Upper

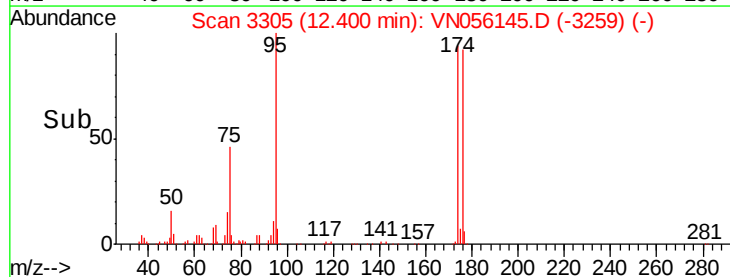
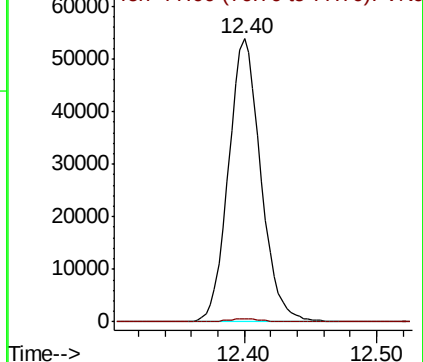
75 100

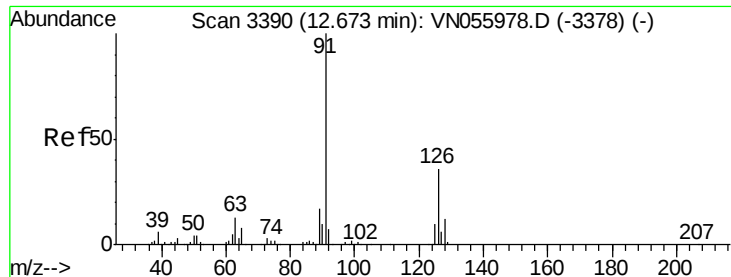
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampled :

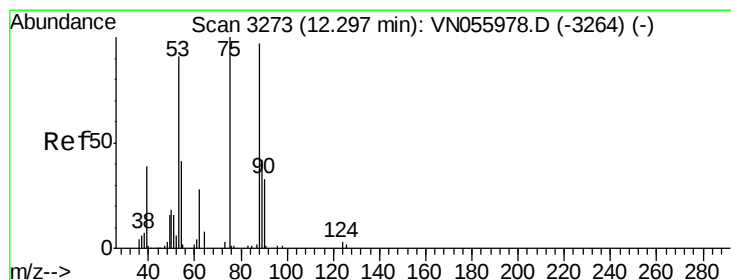
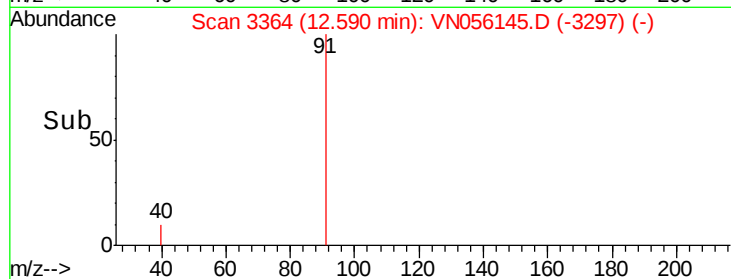
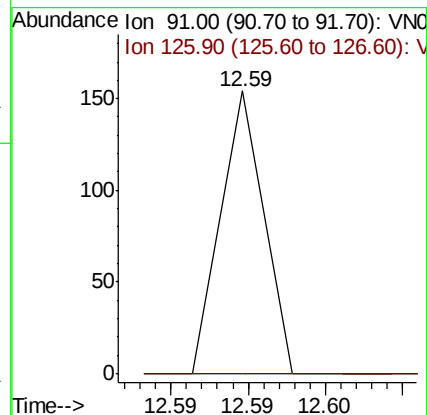
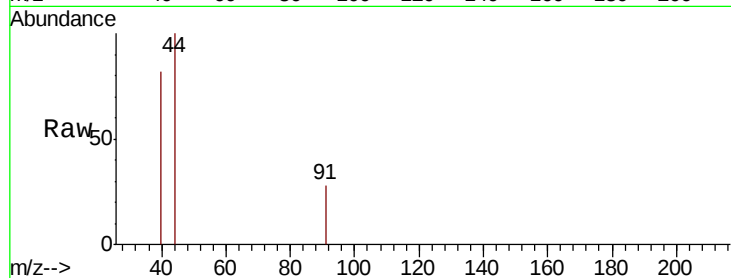
SP19-CHY02

Tot Ion: 91 Resp: 30

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 109.375 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

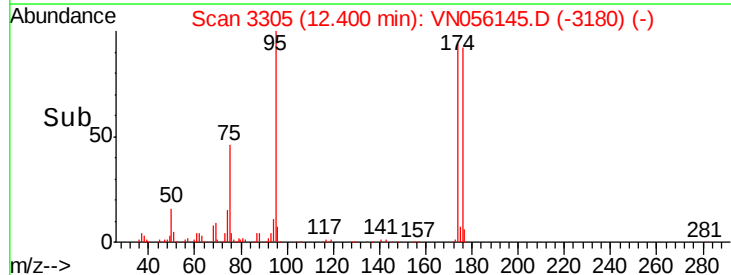
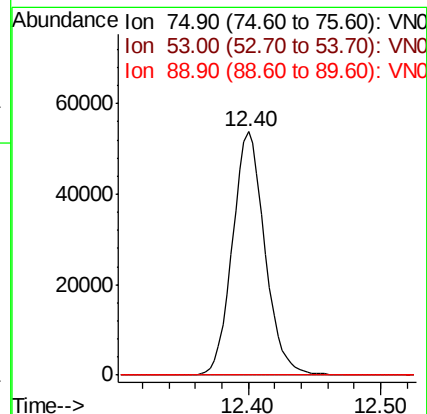
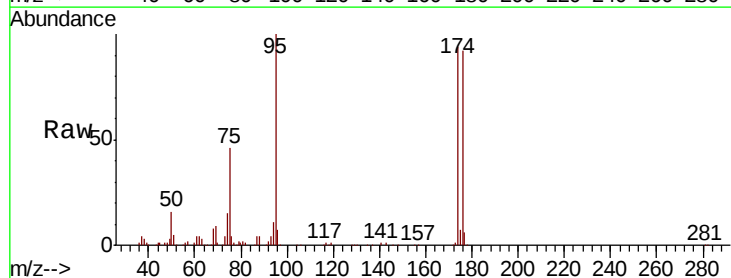
Tgt Ion: 75 Resp: 91201

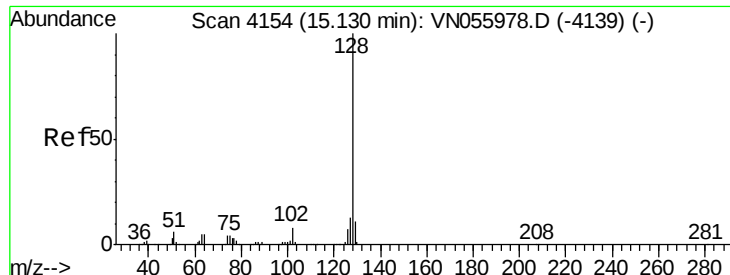
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 3.937 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056145.D

Acq: 8 Jun 2019 11:37

Instrument :

MSVOA_N

ClientSampleId :

SP19-CHY02

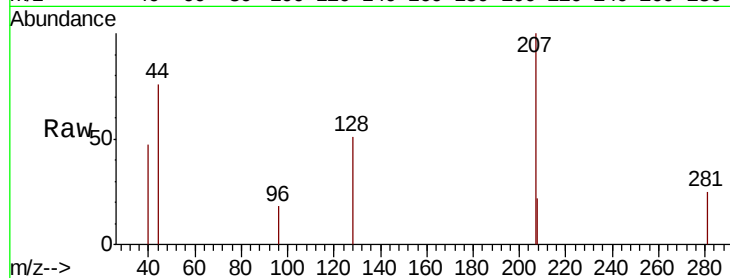
Tot Ion:128 Resp: 674

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



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

