

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010320\
 Data File : VX014408.D
 Acq On : 03 Jan 2020 18:10
 Operator : JC/SP
 Sample : K6113-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-02-123119

Quant Time: Jan 06 02:34:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	558453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	851843	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	763231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	349488	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	298607	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
35) Dibromofluoromethane	5.49	113	250198	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.71	98	1010291	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.13	95	341774	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	

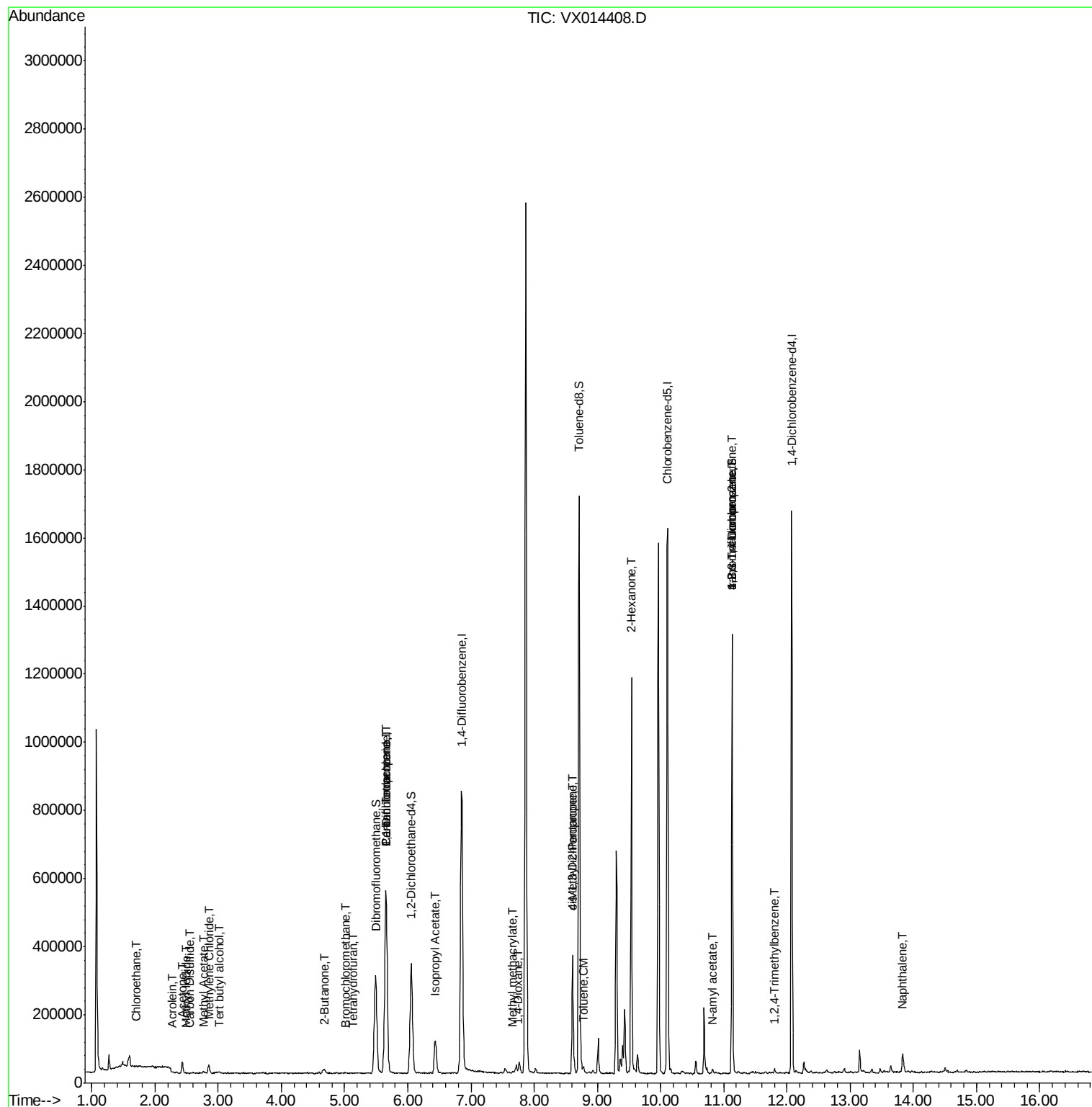
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	2463	0.564	ug/l #	45
10) Methyl Iodide	2.49	142	471	2.685	ug/l #	77
11) Tert butyl alcohol	3.02	59	3802	2.780	ug/l #	72
13) Acrolein	2.27	56	297	0.379	ug/l	91
16) Acetone	2.44	43	37401	9.102	ug/l	94
17) Carbon Disulfide	2.56	76	748	0.800	ug/l #	75
18) Methyl Acetate	2.76	43	5915	0.726	ug/l	97
20) Methylene Chloride	2.85	84	13517	2.089	ug/l	90
25) 2-Butanone	4.68	43	11351	2.241	ug/l #	84
28) Bromochloromethane	5.01	49	382	0.546	ug/l #	70
29) Tetrahydrofuran	5.13	42	1071	0.378	ug/l #	60
36) 1,1-Dichloropropene	5.65	75	38272	4.897	ug/l #	51
38) Carbon Tetrachloride	5.65	117	47792	6.712	ug/l #	15
43) Isopropyl Acetate	6.43	43	132908	9.305	ug/l	98
48) Methyl methacrylate	7.67	41	6757	0.966	ug/l #	16
49) 1,4-Dioxane	7.74	88	256	1.798	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	125853	14.029	ug/l #	51
52) Toluene	8.78	92	4720	0.311	ug/l	99
54) cis-1,3-Dichloropropene	8.60	75	59476	6.343	ug/l #	57
59) 2-Hexanone	9.54	43	132647	18.368	ug/l #	51
74) N-amyl acetate	10.82	43	7756	0.672	ug/l #	47
76) 1,2,3-Trichloropropane	11.13	75	167113	22.025	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	167113	62.167	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.81	105	5272	0.254	ug/l	97
95) Naphthalene	13.83	128	36095	1.582	ug/l	96

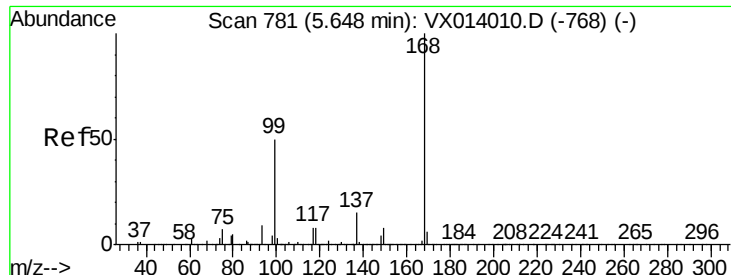
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 06 02:34:38 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampleId :

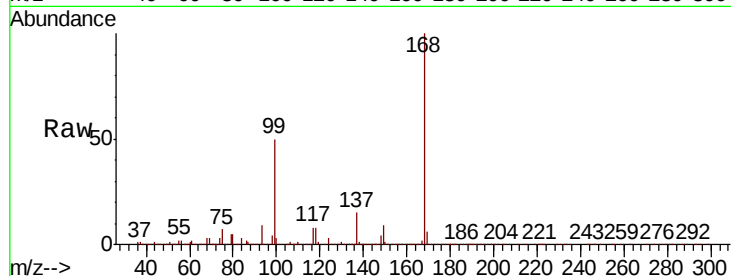
OR-02-123119

Tot Ion:168 Resp: 558453

Ion Ratio Lower Upper

168 100

99 49.8 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

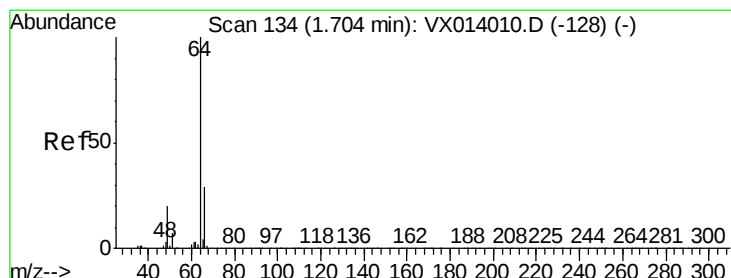
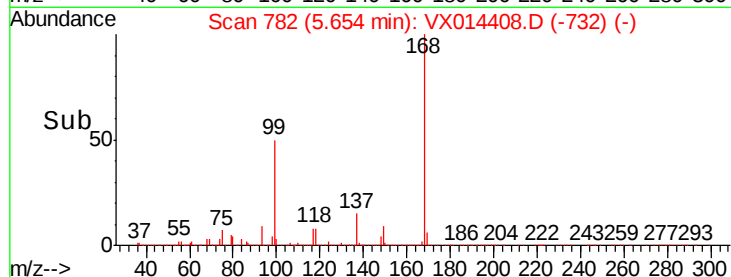
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.564 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX014408.D

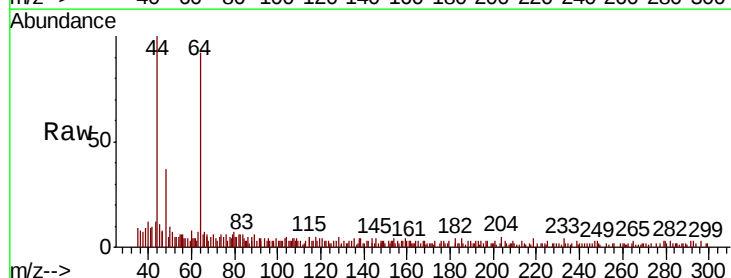
Acq: 03 Jan 2020 18:10

Tgt Ion: 64 Resp: 2463

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

4000

3000

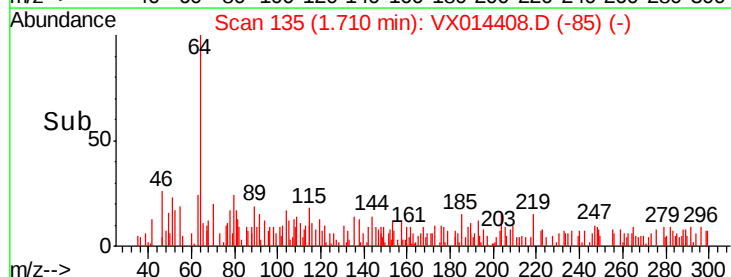
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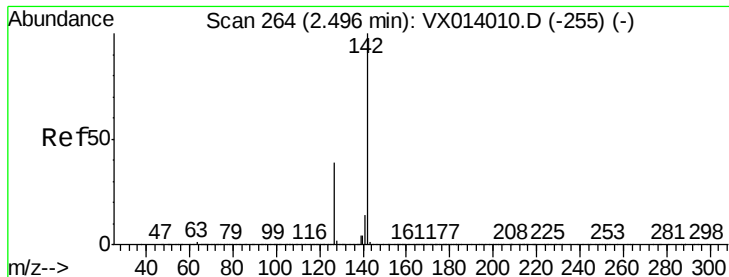
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0

Time-->

1.65 1.70 1.75

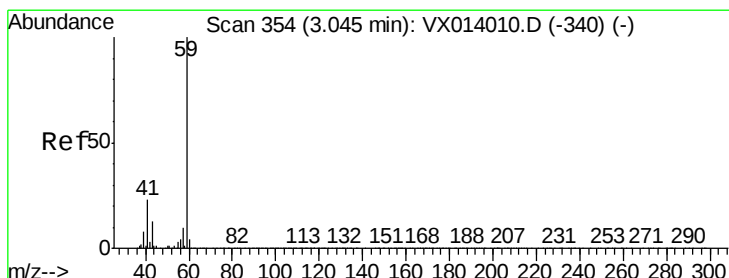
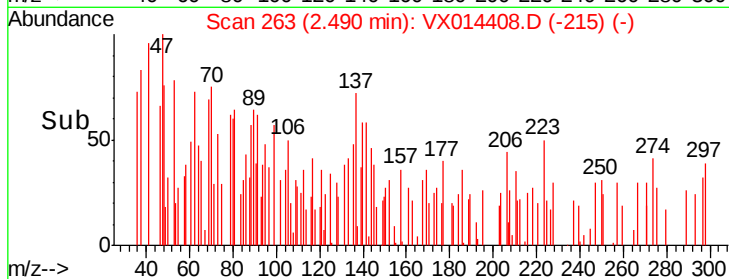
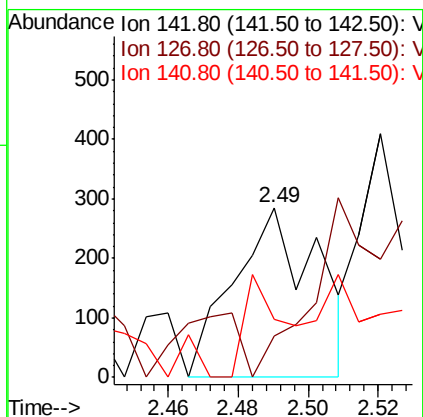
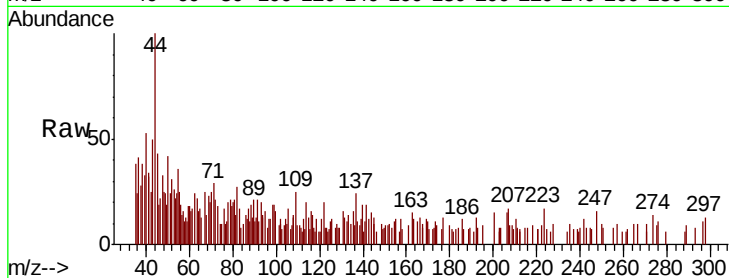




#10
Methvl Iodide
Concen: 2.685 ug/l
RT: 2.49 min Scan# 263
Delta R.T. -0.01 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

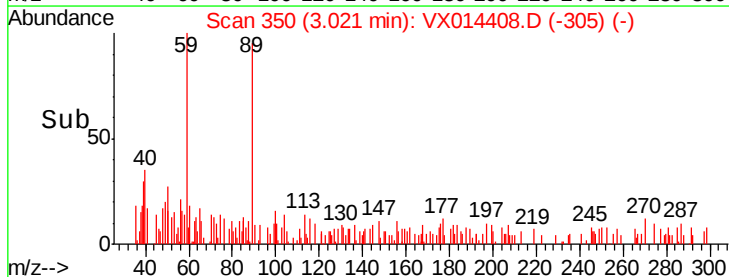
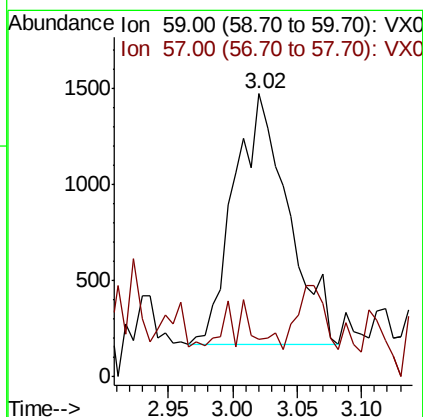
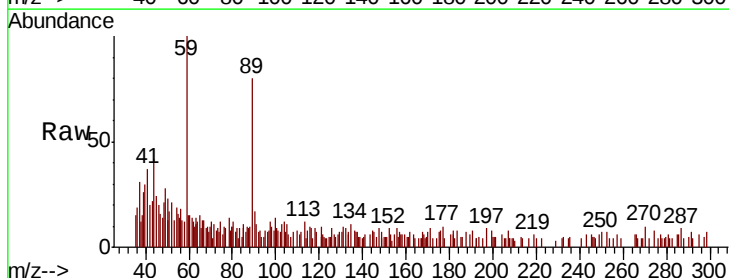
Instrument :
MSVOA_X
ClientSampled :
OR-02-123119

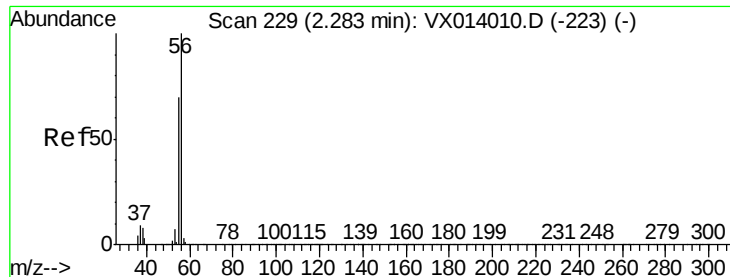
Tot Ion:142 Resp: 471
Ion Ratio Lower Upper
142 100
127 27.8 31.6 47.4#
141 27.8 11.6 17.4#



#11
Tert butyl alcohol
Concen: 2.780 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion: 59 Resp: 3802
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

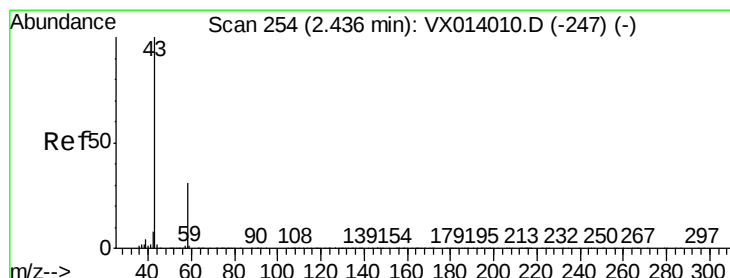
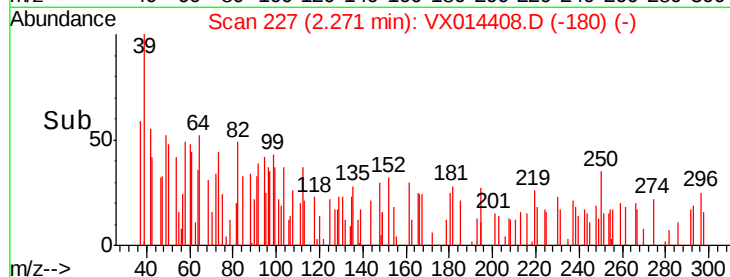
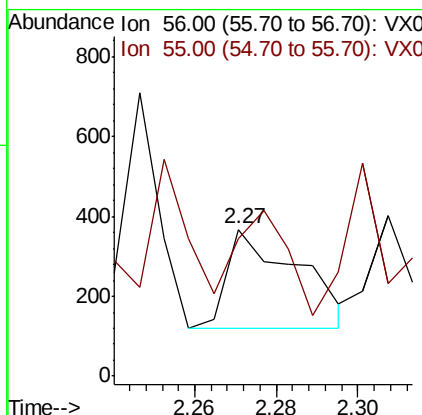
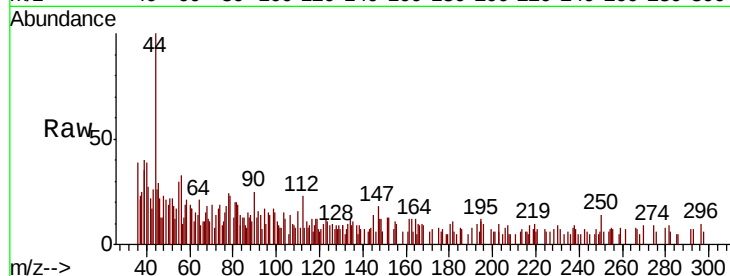




#13
Acrolein
Concen: 0.379 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

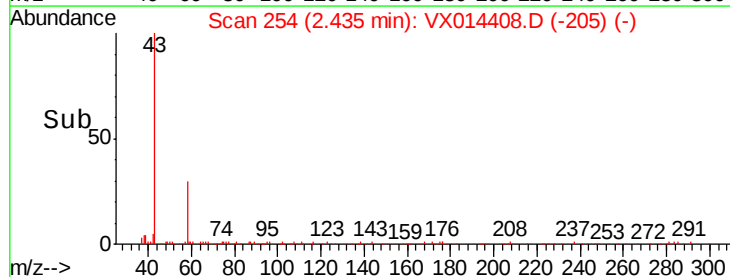
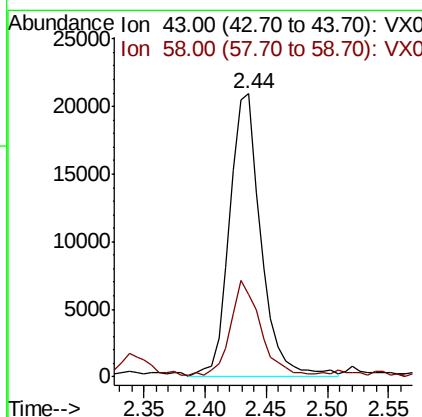
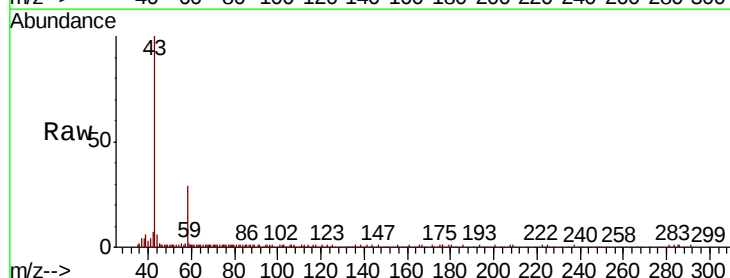
Instrument :
MSVOA_X
ClientSampled :
OR-02-123119

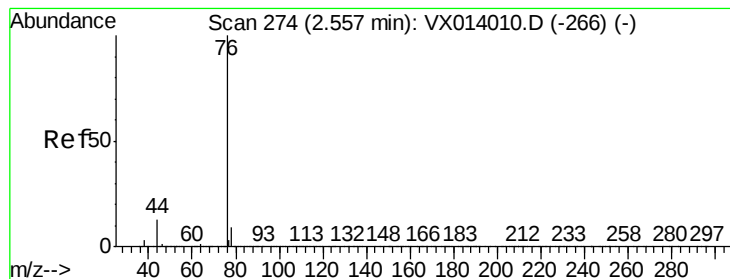
Tot Ion: 56 Resp: 297
Ion Ratio Lower Upper
56 100
55 78.5 56.9 85.3



#16
Acetone
Concen: 9.102 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion: 43 Resp: 37401
Ion Ratio Lower Upper
43 100
58 27.9 24.9 37.3





#17

Carbon Disulfide

Concen: 0.800 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampled :

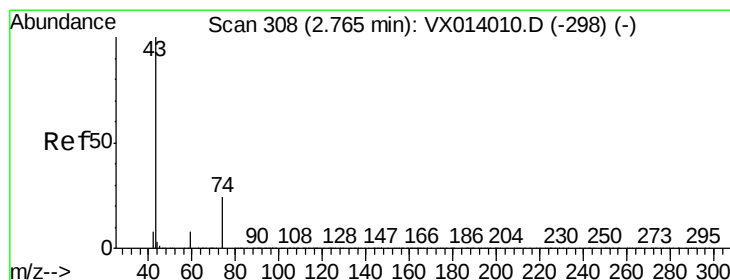
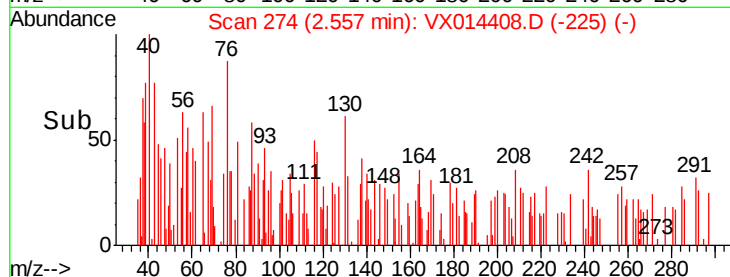
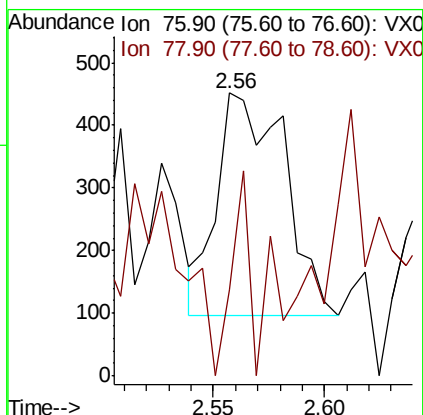
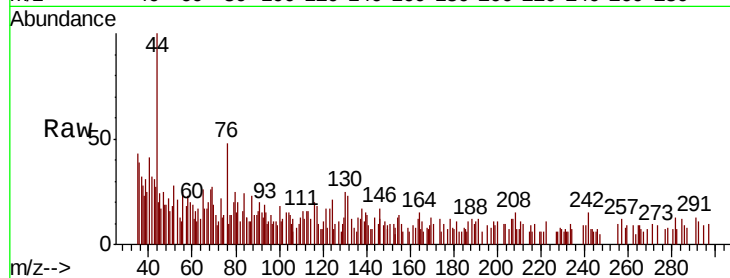
OR-02-123119

Tot Ion: 76 Resp: 748

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#18

Methyl Acetate

Concen: 0.726 ug/l

RT: 2.76 min Scan# 308

Delta R.T. -0.00 min

Lab File: VX014408.D

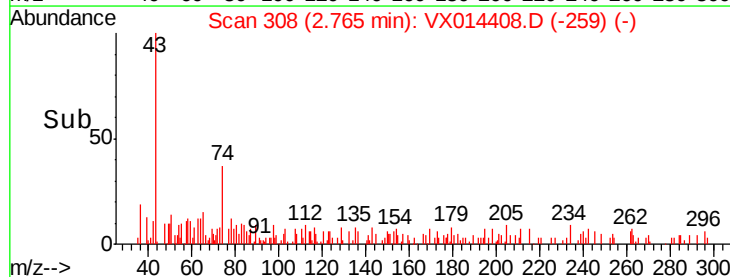
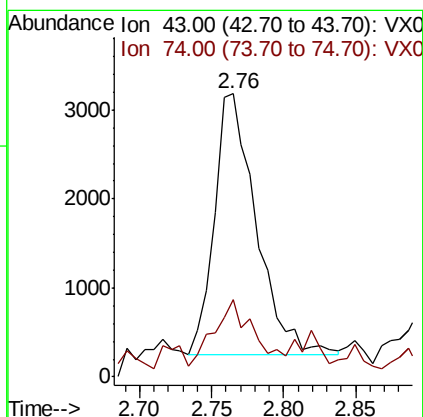
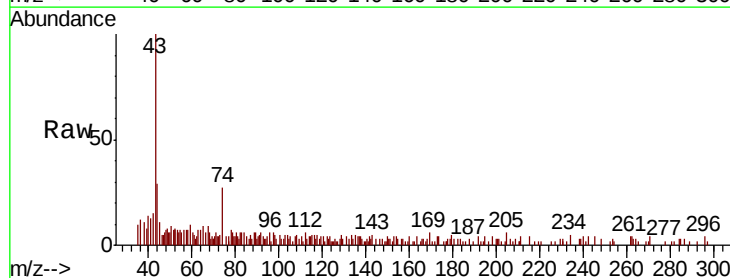
Acq: 03 Jan 2020 18:10

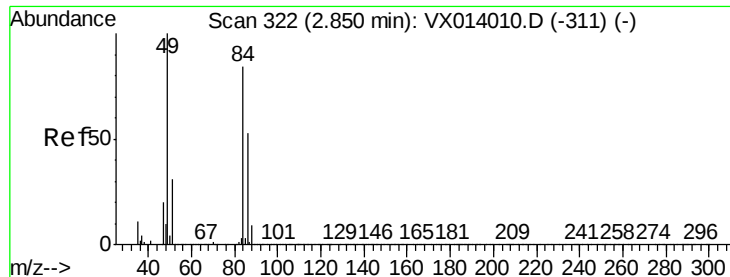
Tgt Ion: 43 Resp: 5915

Ion Ratio Lower Upper

43 100

74 25.6 19.5 29.3

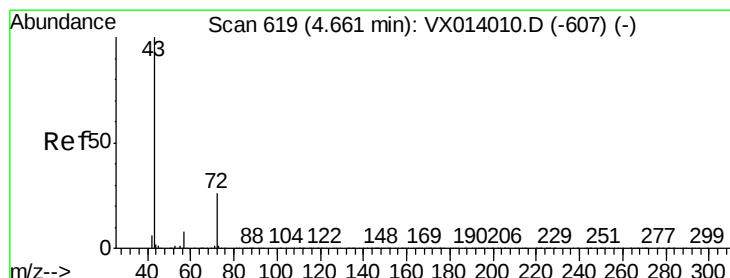
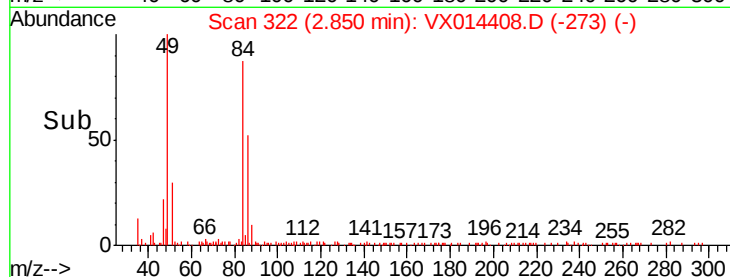
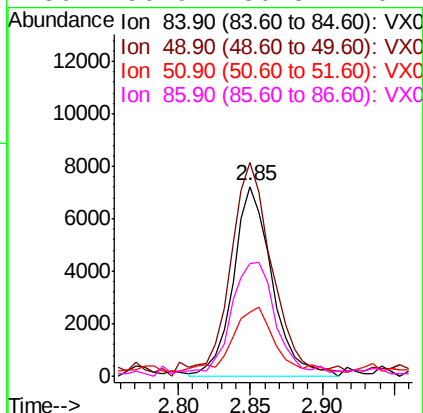
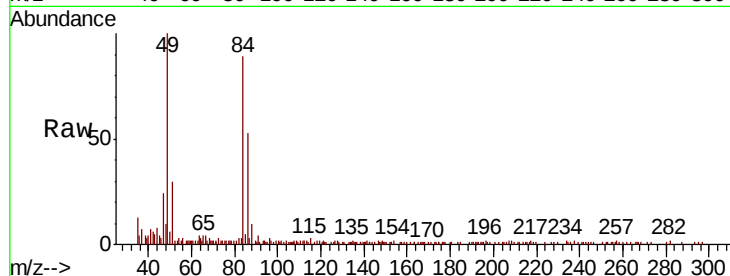




#20
Methvlene Chloride
Concen: 2.089 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

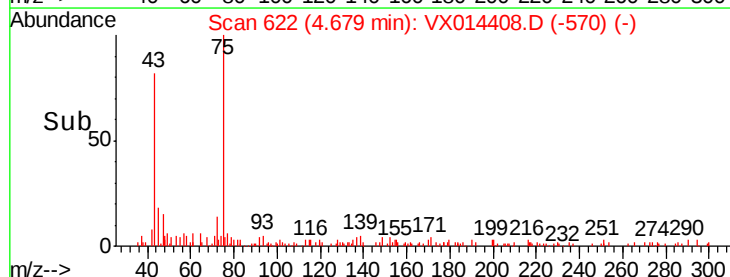
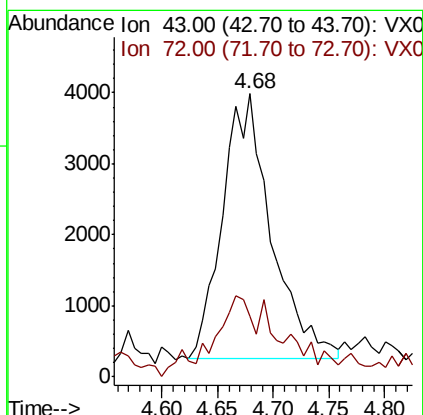
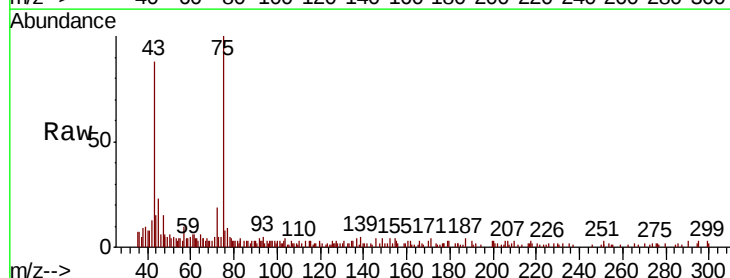
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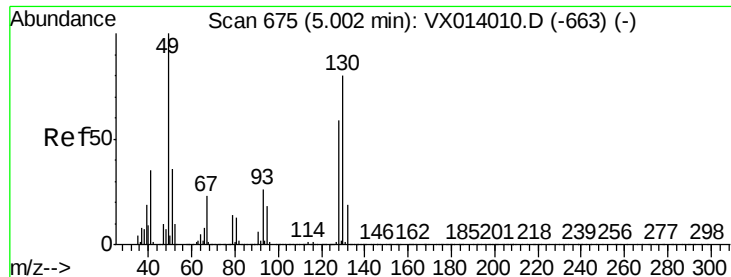
Tot Ion:	84	Resp:	13517
Ion	Ratio	Lower	Upper
84	100		
49	107.9	95.8	143.6
51	30.9	29.8	44.8
86	56.9	50.8	76.2



#25
2-Butanone
Concen: 2.241 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion:	43	Resp:	11351
Ion	Ratio	Lower	Upper
43	100		
72	18.1	21.0	31.4#

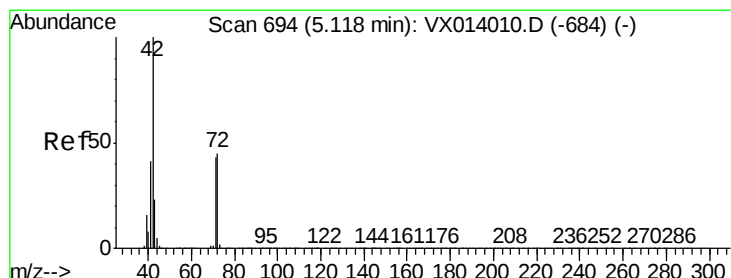
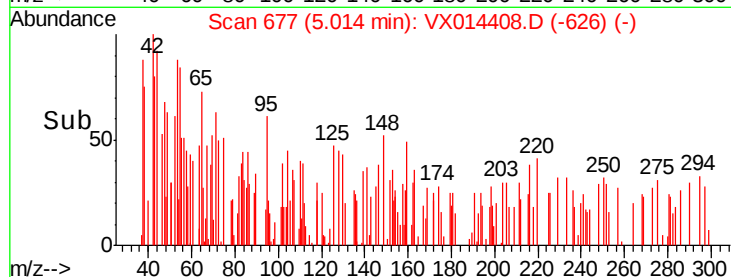
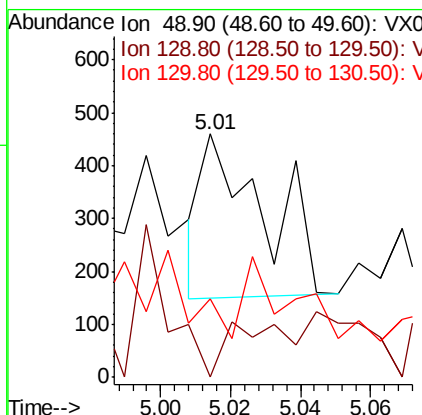
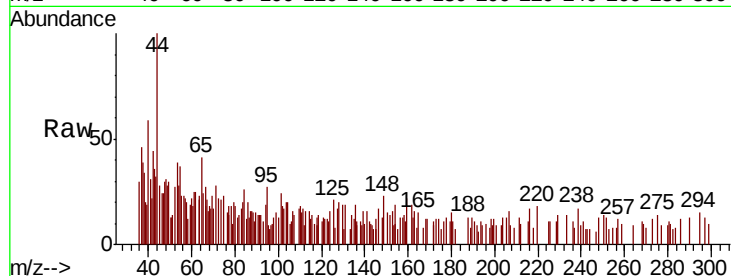




#28
Bromochloromethane
Concen: 0.546 ug/l
RT: 5.01 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

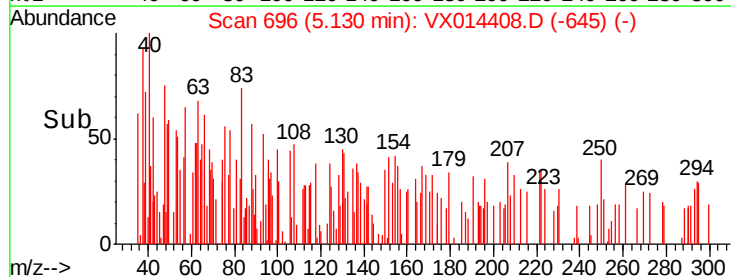
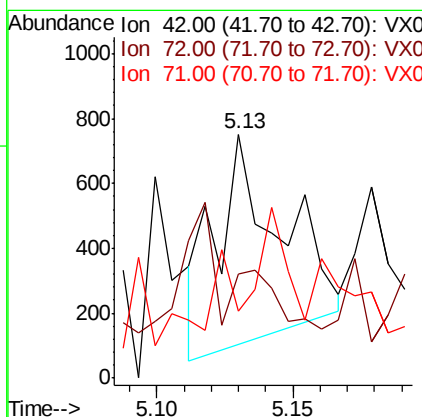
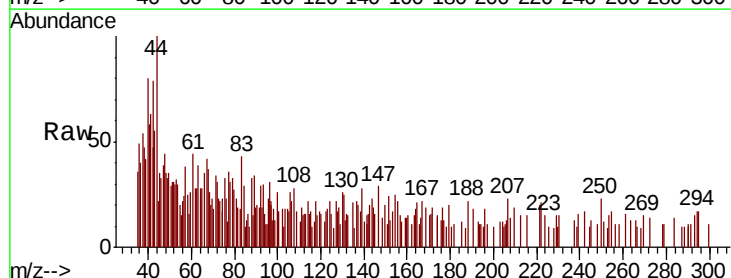
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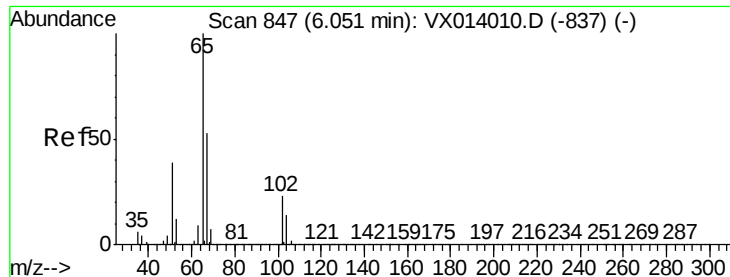
Tot Ion: 49 Resp: 382
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 53.7 64.6 97.0#



#29
Tetrahydrofuran
Concen: 0.378 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.01 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion: 42 Resp: 1071
Ion Ratio Lower Upper
42 100
72 34.3 35.8 53.8#
71 0.0 33.6 50.4#





#33

1,2-Dichloroethane-d4

Concen: 47.179 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampled :

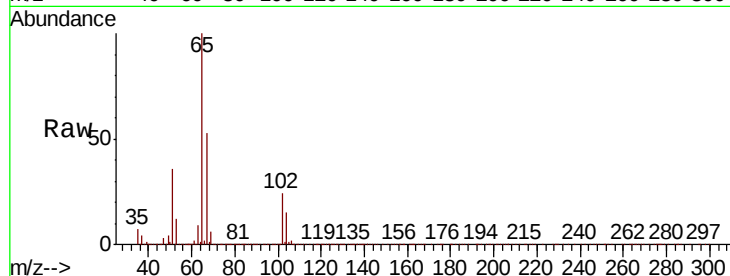
OR-02-123119

Tot Ion: 65 Resp: 298607

Ion Ratio Lower Upper

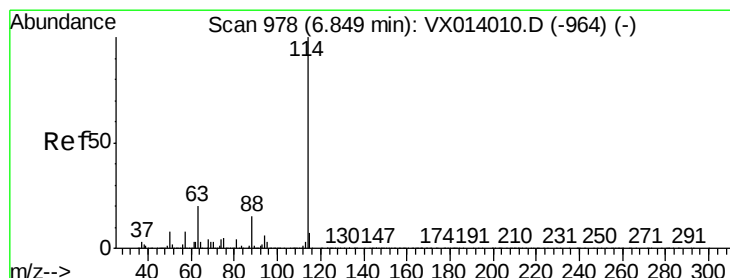
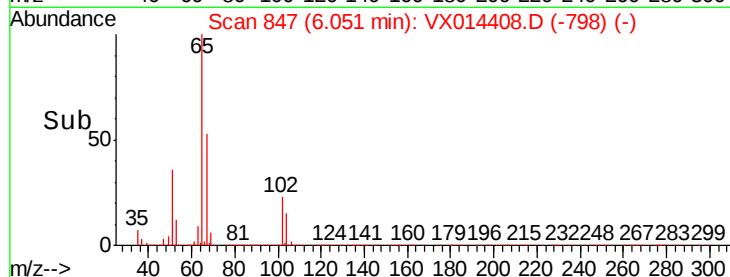
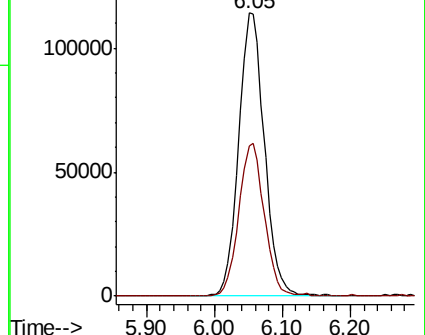
65 100

67 53.6 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

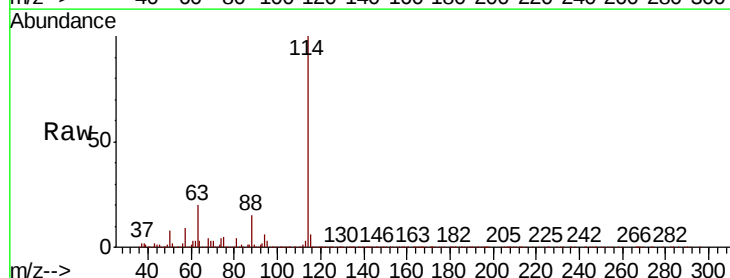
Tgt Ion: 114 Resp: 851843

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

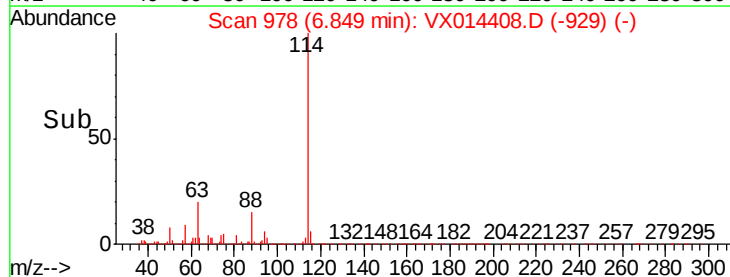
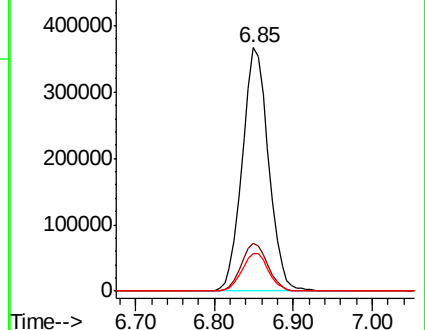
88 15.4 0.0 30.4

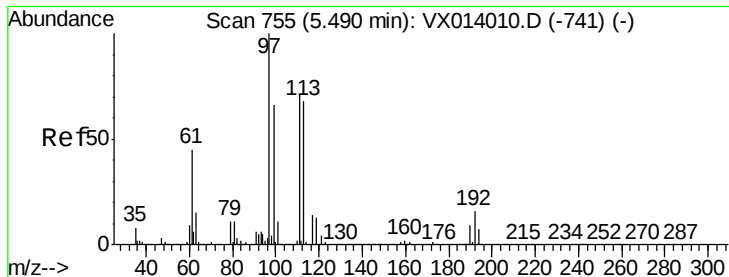


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.317 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampleId :

OR-02-123119

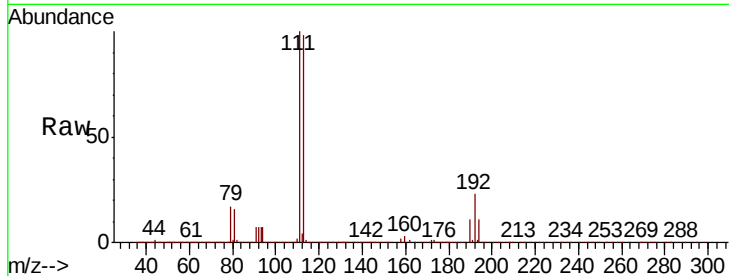
Tot Ion:113 Resp: 250198

Ion Ratio Lower Upper

113 100

111 102.5 82.0 123.0

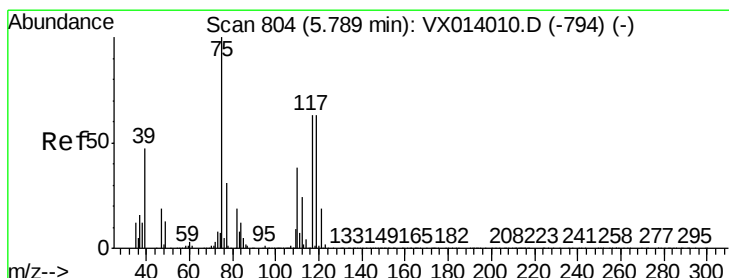
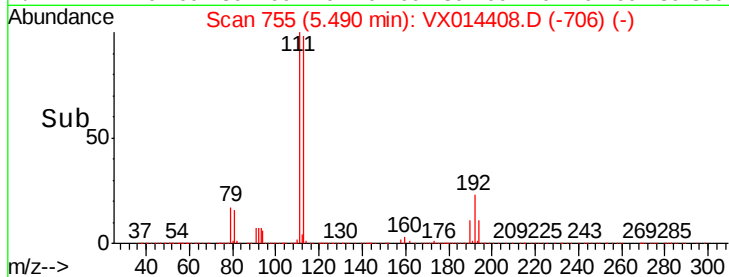
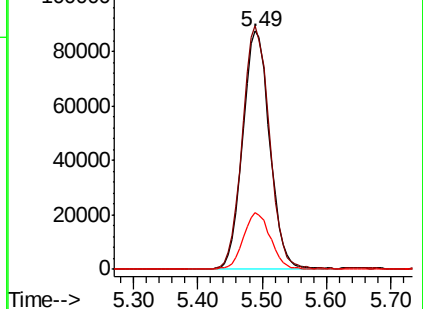
192 24.2 19.3 28.9



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: 4.897 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

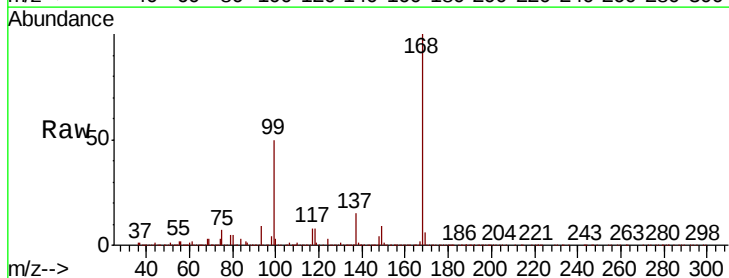
Tgt Ion: 75 Resp: 38272

Ion Ratio Lower Upper

75 100

110 10.2 18.3 54.9#

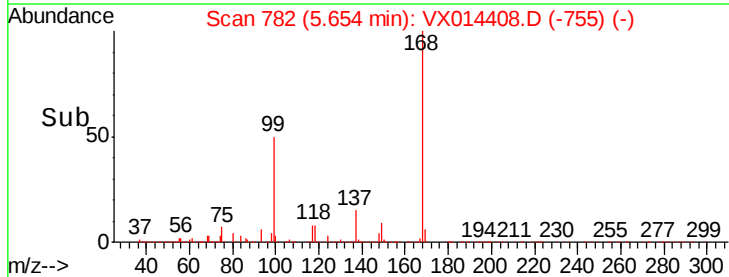
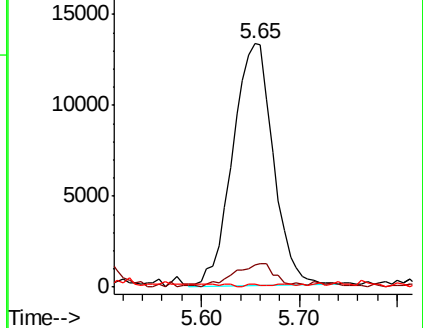
77 0.6 24.8 37.2#

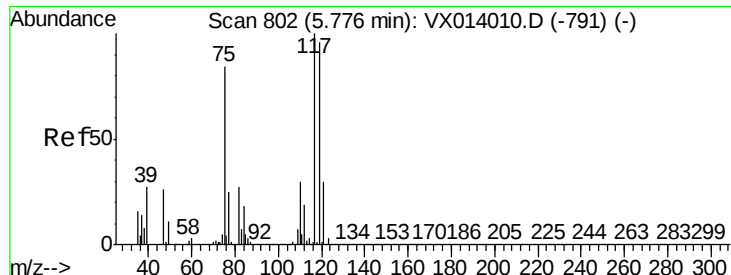


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

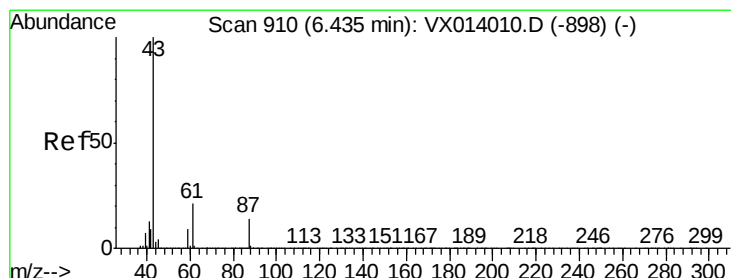
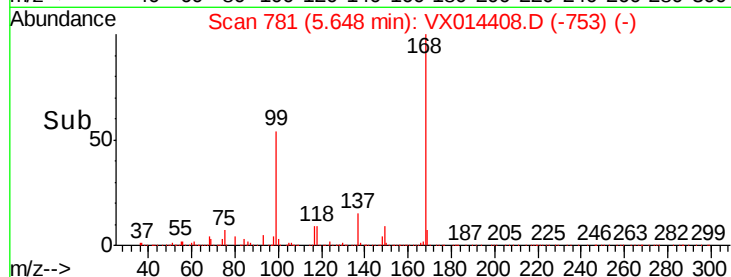
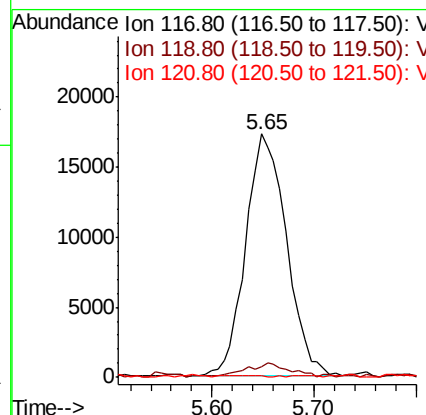
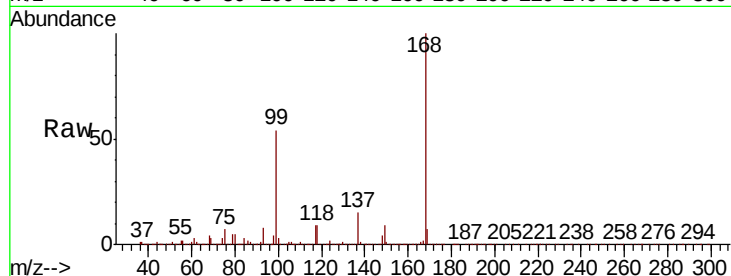




#38
Carbon Tetrachloride
Concen: 6.712 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

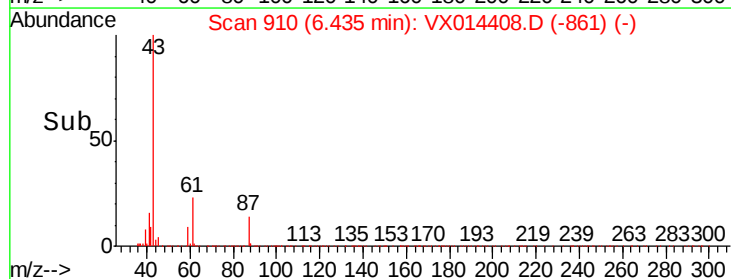
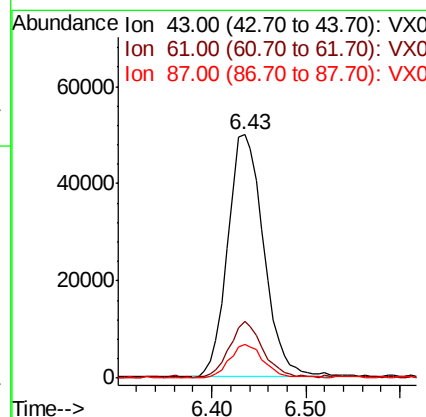
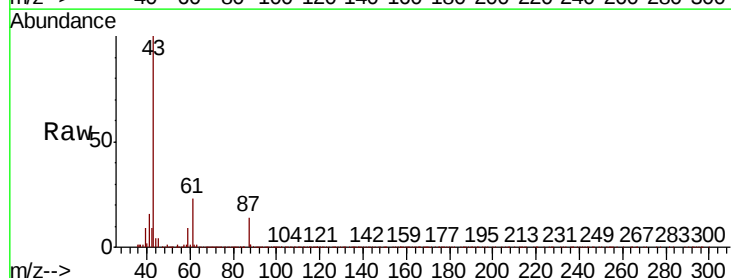
Instrument :
MSVOA_X
ClientSampleId :
OR-02-123119

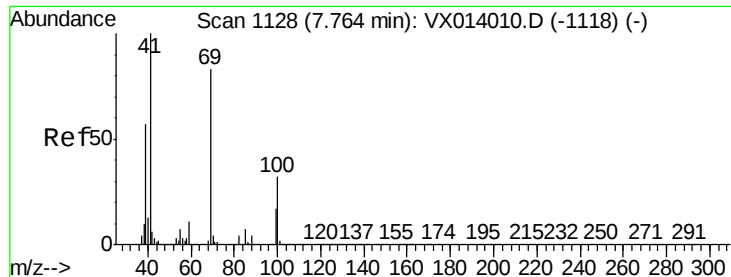
Tot Ion:117 Resp: 47792
Ion Ratio Lower Upper
117 100
119 3.8 76.2 114.4#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 9.305 ug/l
RT: 6.43 min Scan# 910
Delta R.T. -0.00 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion: 43 Resp: 132908
Ion Ratio Lower Upper
43 100
61 21.2 16.4 24.6
87 12.7 10.7 16.1

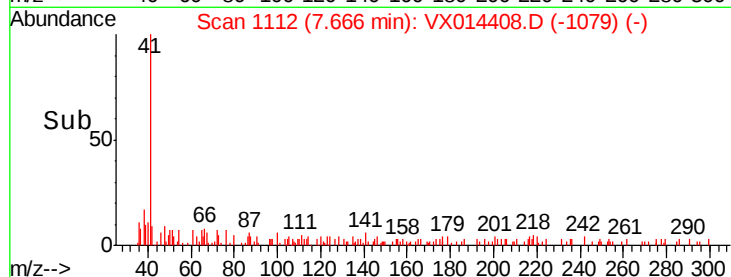
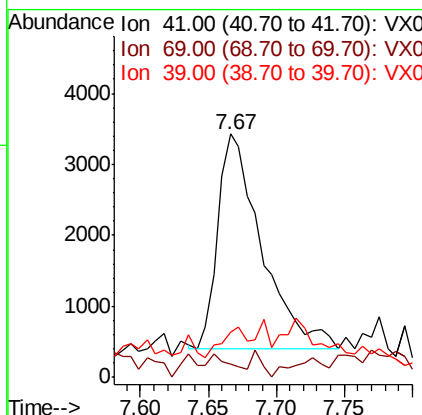
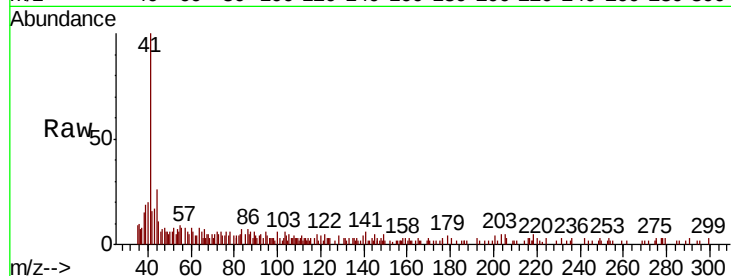




#48
Methyl methacrylate
Concen: 0.966 ug/l
RT: 7.67 min Scan# 1112
Delta R.T. -0.10 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

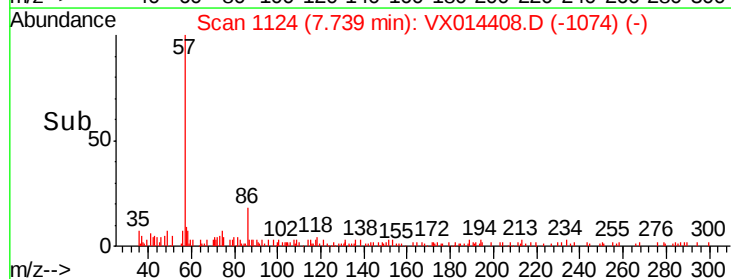
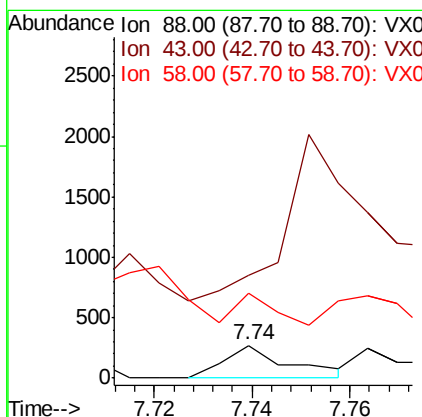
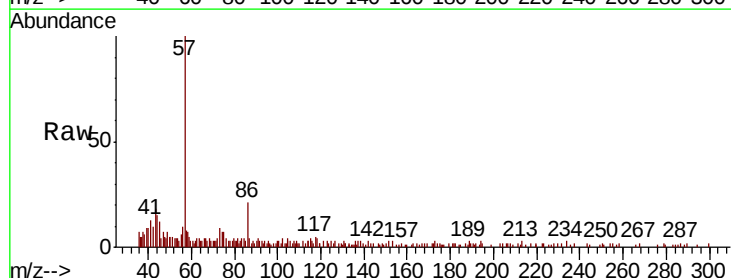
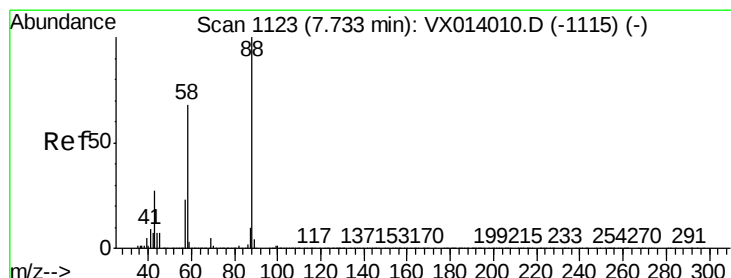
Instrument :
MSVOA_X
ClientSampleId :
OR-02-123119

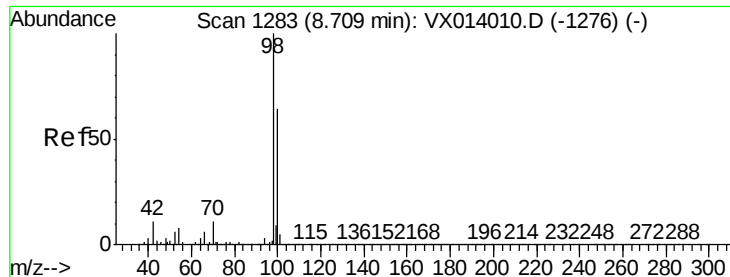
Tot Ion: 41 Resp: 6757
Ion Ratio Lower Upper
41 100
69 2.7 65.8 98.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 1.798 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion: 88 Resp: 256
Ion Ratio Lower Upper
88 100
43 0.0 26.5 39.7#
58 779.3 56.8 85.2#





#50

Toluene-d8

Concen: 50.113 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampleId :

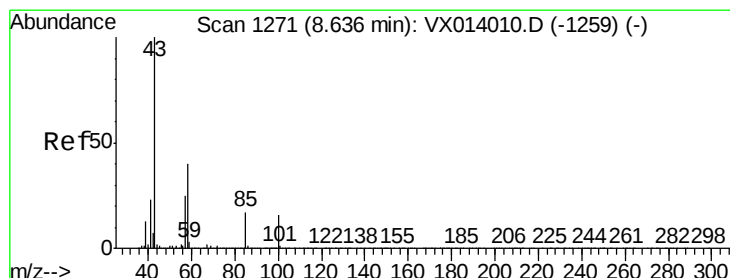
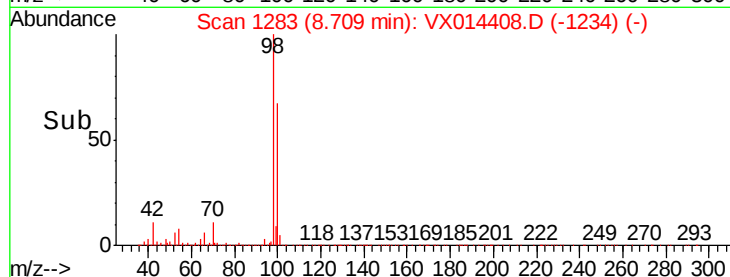
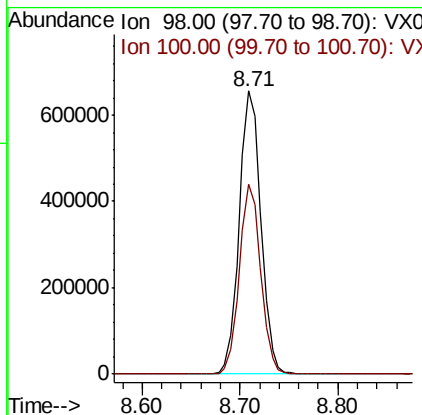
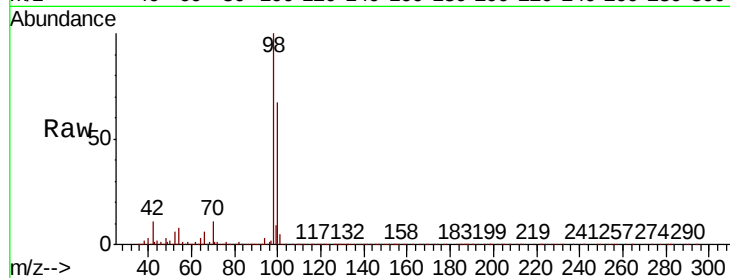
OR-02-123119

Tot Ion: 98 Resp: 1010291

Ion Ratio Lower Upper

98 100

100 66.0 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 14.029 ug/l

RT: 8.61 min Scan# 1267

Delta R.T. -0.02 min

Lab File: VX014408.D

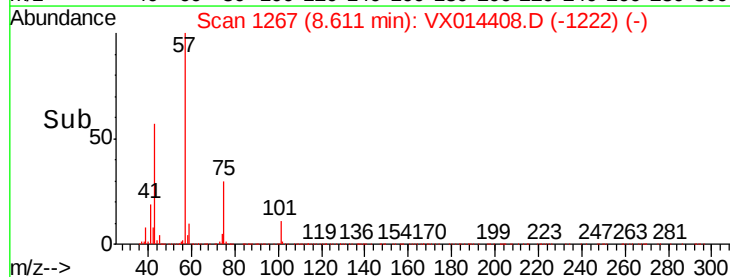
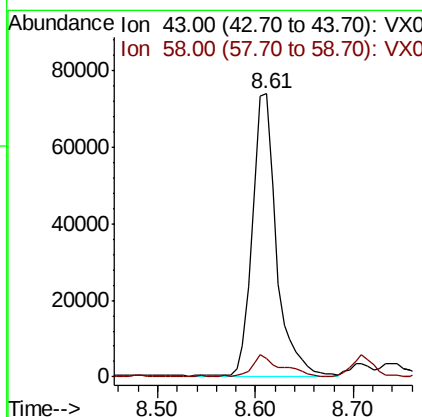
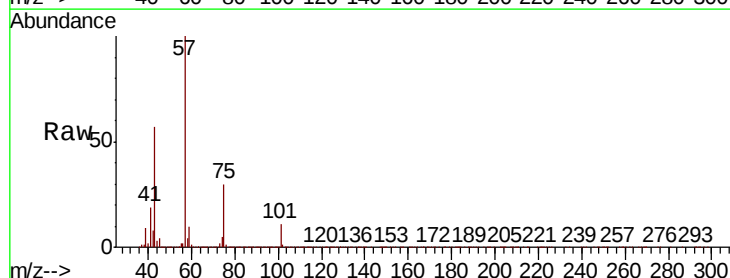
Acq: 03 Jan 2020 18:10

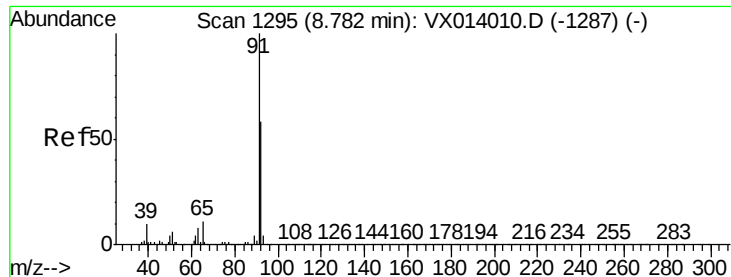
Tgt Ion: 43 Resp: 125853

Ion Ratio Lower Upper

43 100

58 9.5 32.2 48.2#





#52

Toluene

Concen: 0.311 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampleId :

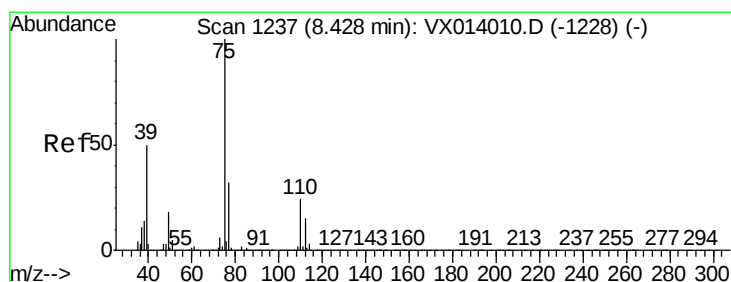
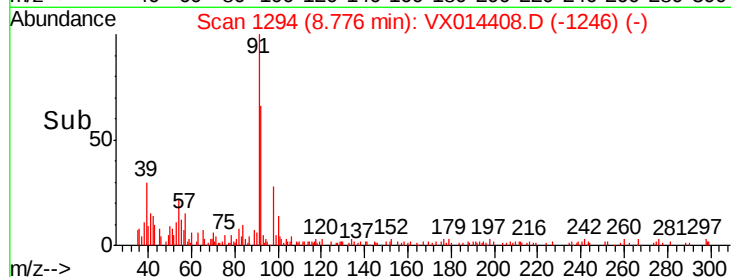
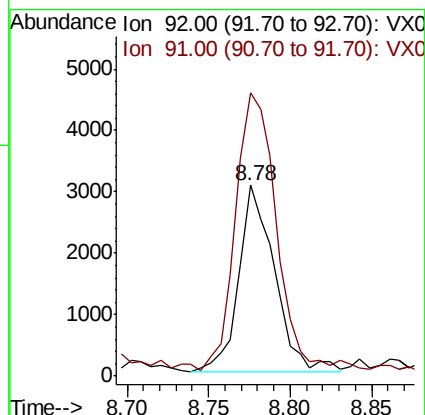
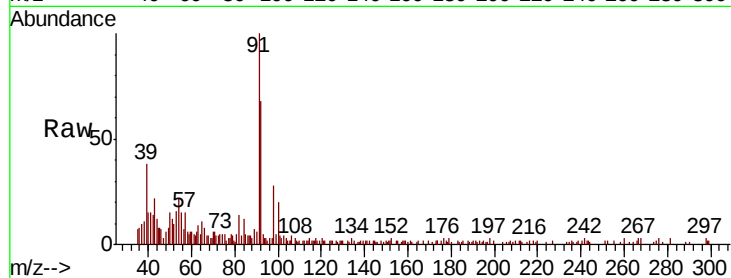
OR-02-123119

Tot Ion: 92 Resp: 4720

Ion Ratio Lower Upper

92 100

91 168.5 136.2 204.4



#54

cis-1,3-Dichloropropene

Concen: 6.343 ug/l

RT: 8.60 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

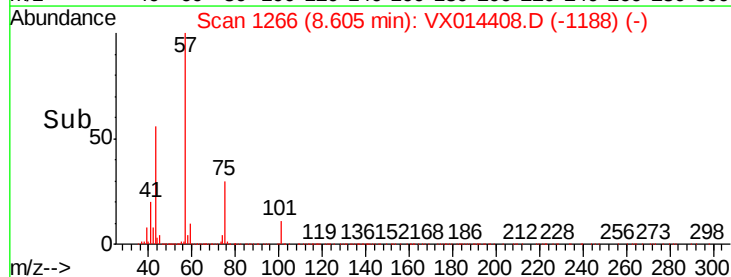
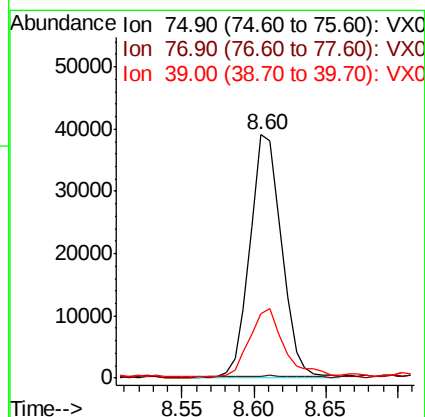
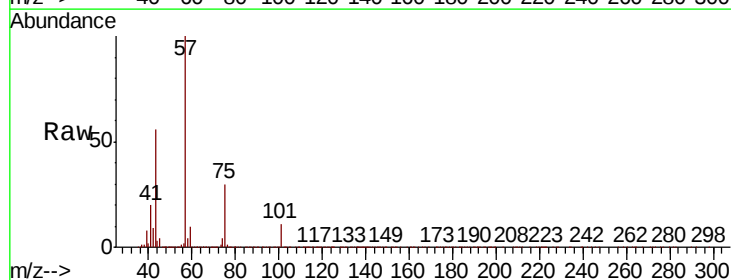
Tgt Ion: 75 Resp: 59476

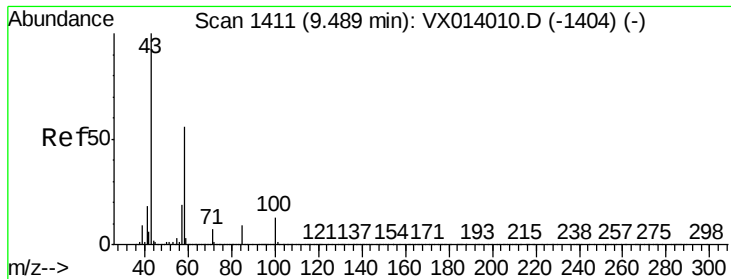
Ion Ratio Lower Upper

75 100

77 0.7 25.3 37.9#

39 25.7 39.9 59.9#

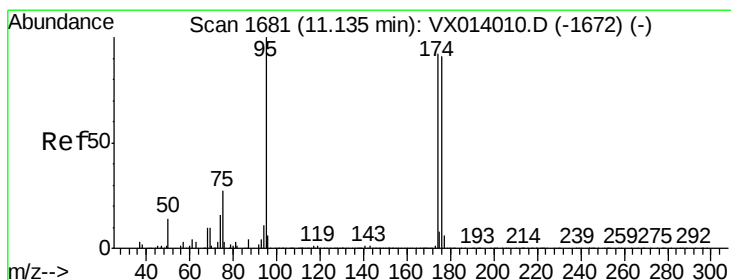
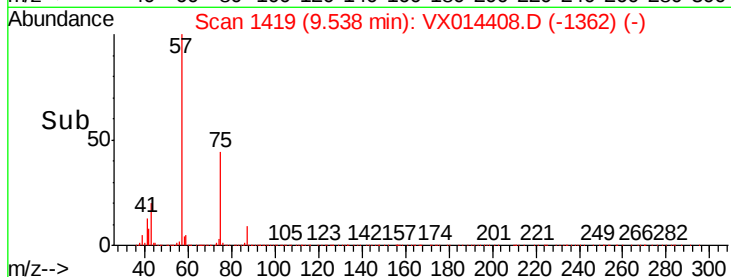
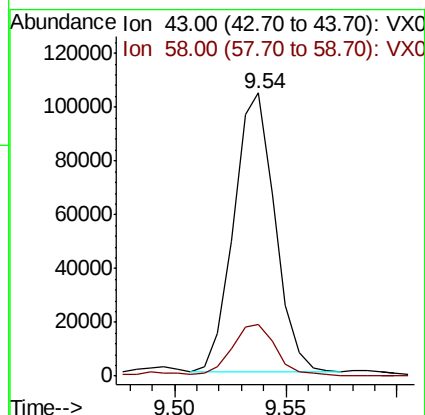
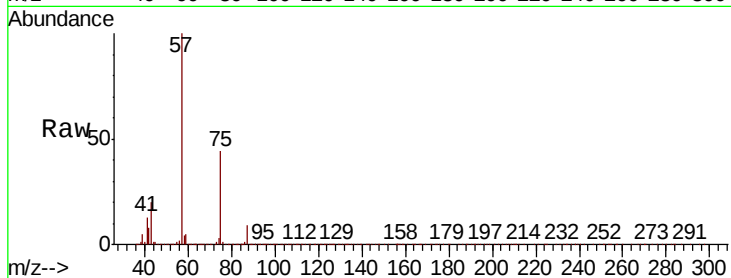




#59
2-Hexanone
Concen: 18.368 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

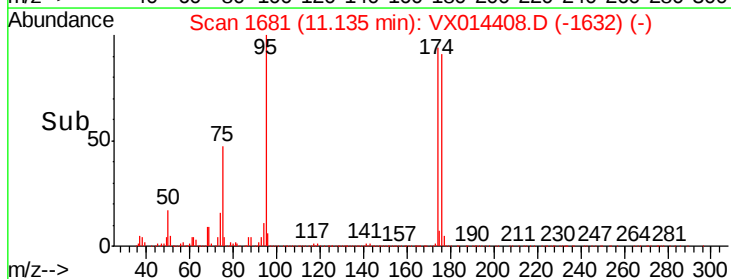
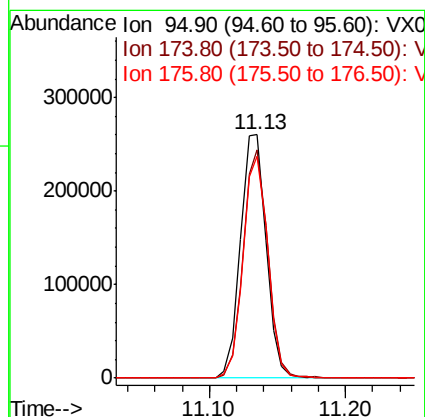
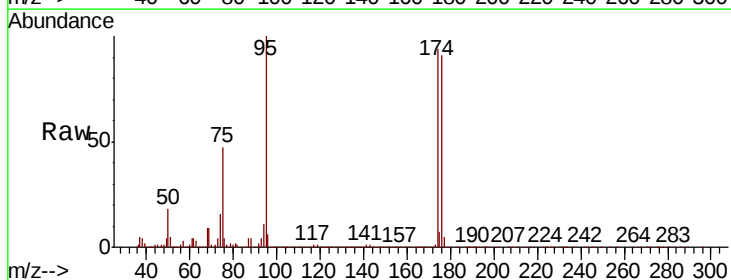
Instrument :
MSVOA_X
ClientSampleId :
OR-02-123119

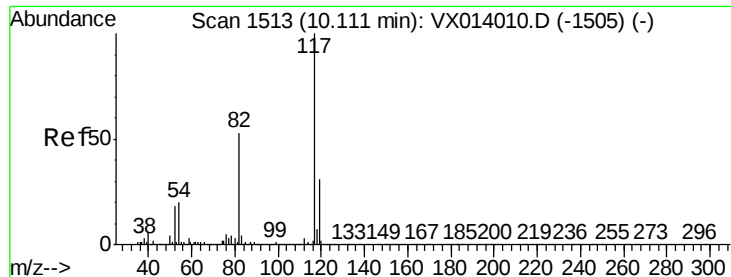
Tot Ion: 43 Resp: 132647
Ion Ratio Lower Upper
43 100
58 20.0 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 46.377 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion: 95 Resp: 341774
Ion Ratio Lower Upper
95 100
174 90.1 0.0 175.8
176 88.2 0.0 173.0

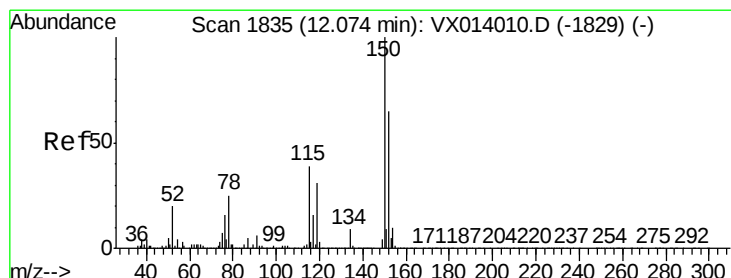
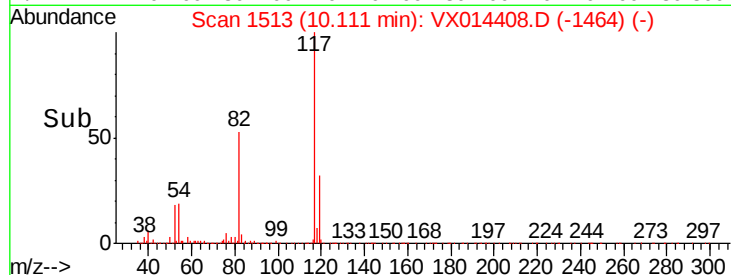
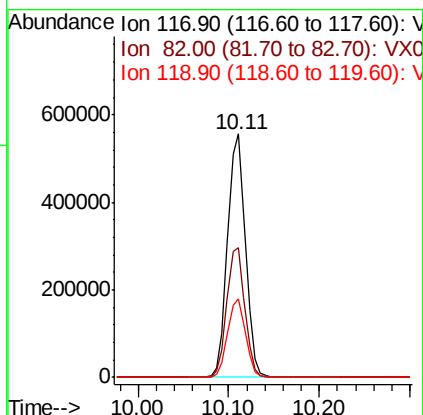
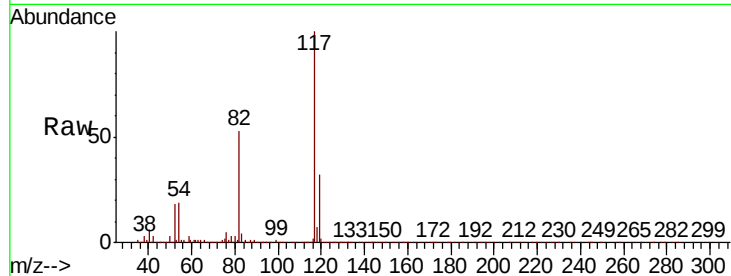




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

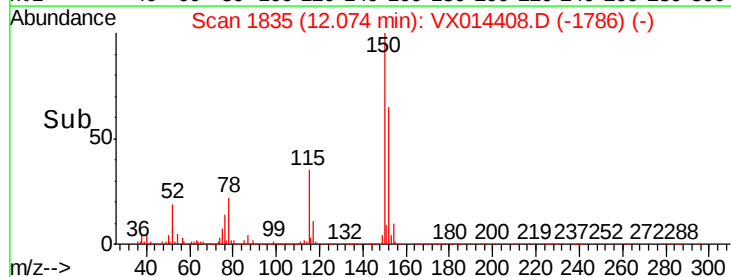
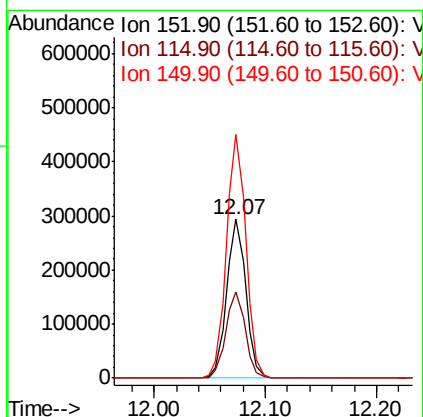
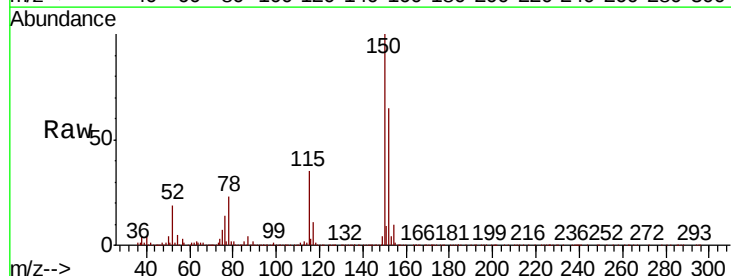
Instrument :
MSVOA_X
ClientSampleId :
OR-02-123119

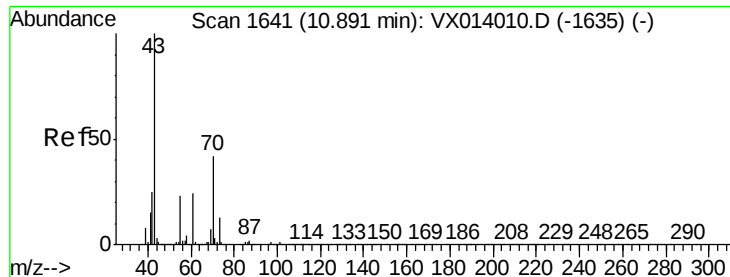
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.2	63.4
119	32.4	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.3	114.9
150	155.8	0.0	345.4





#74

N-amvl acetate

Concen: 0.672 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampleId :

OR-02-123119

Tot Ion: 43 Resp: 7756

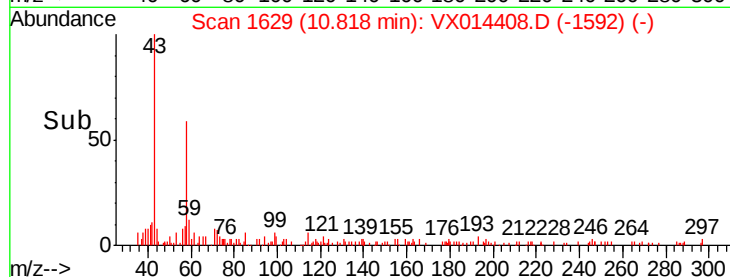
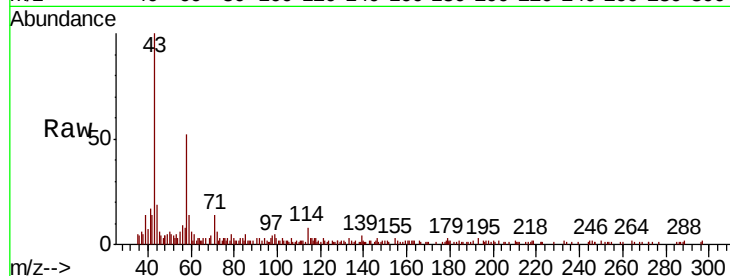
Ion Ratio Lower Upper

43 100

70 2.9 34.4 51.6#

55 5.0 19.1 28.7#

61 0.0 19.7 29.5#

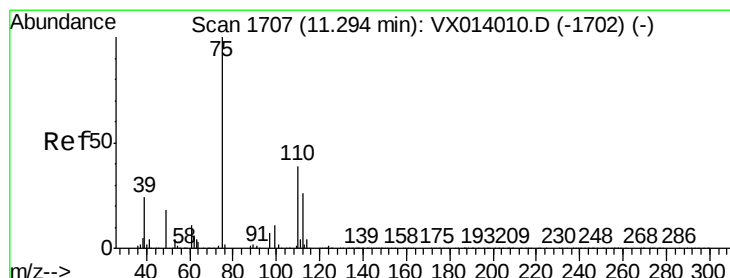
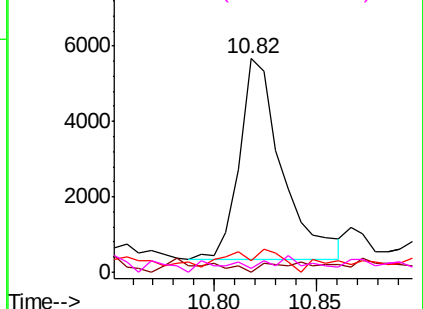


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.025 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014408.D

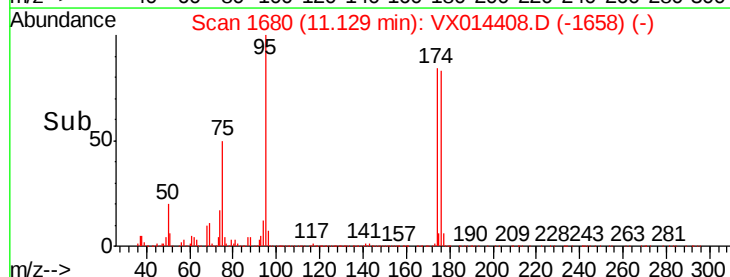
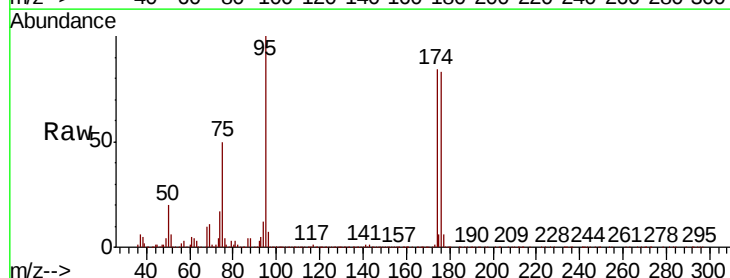
Acq: 03 Jan 2020 18:10

Tgt Ion: 75 Resp: 167113

Ion Ratio Lower Upper

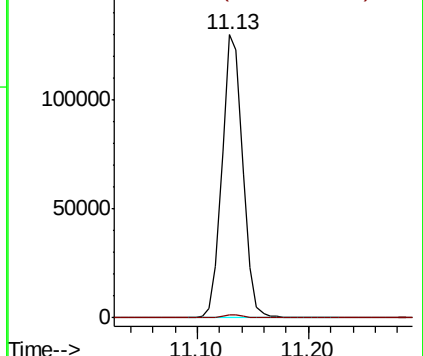
75 100

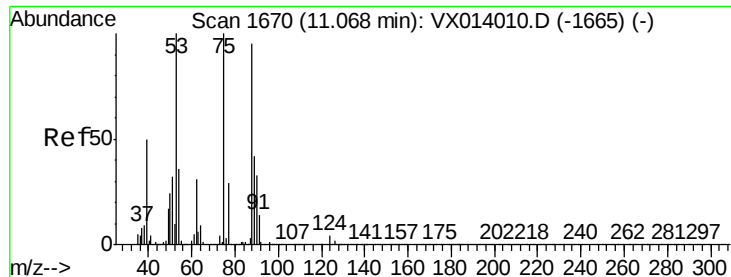
77 1.5 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.167 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014408.D

Acq: 03 Jan 2020 18:10

Instrument :

MSVOA_X

ClientSampleId :

OR-02-123119

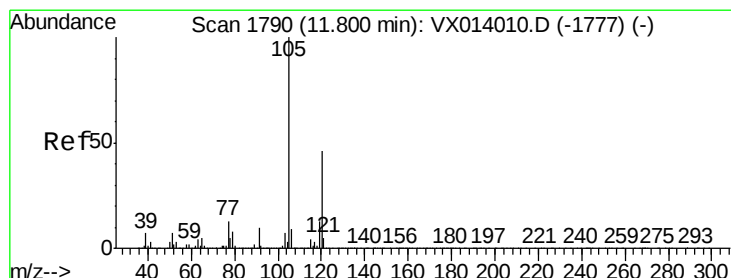
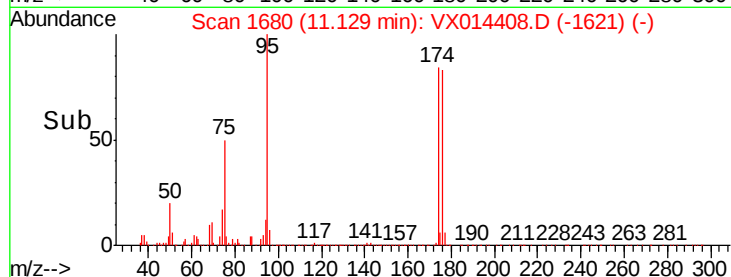
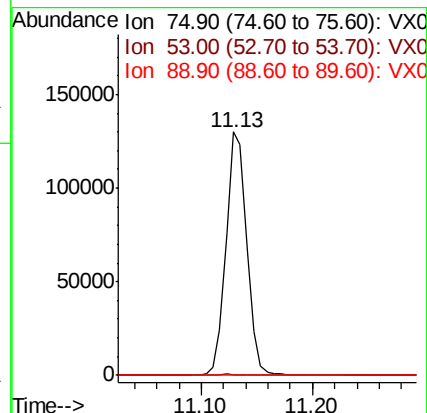
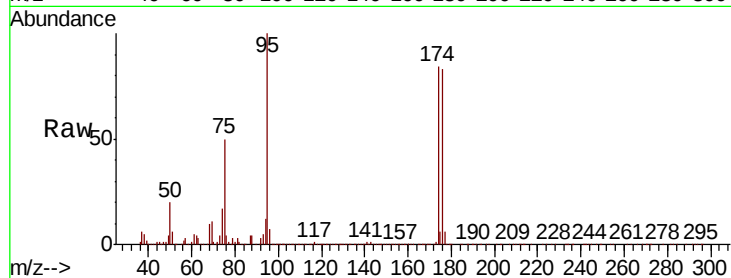
Tot Ion: 75 Resp: 167113

Ion Ratio Lower Upper

75 100

53 0.5 76.7 115.1#

89 0.1 34.6 51.8#



#84

1,2,4-Trimethylbenzene

Concen: 0.254 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VX014408.D

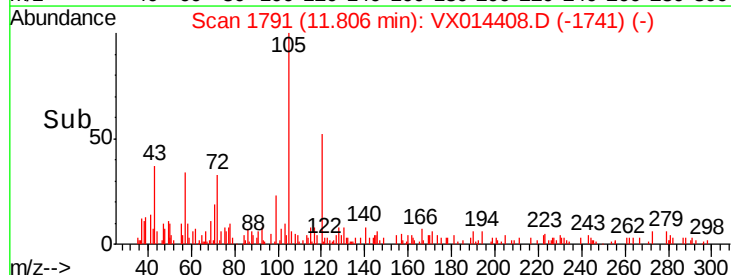
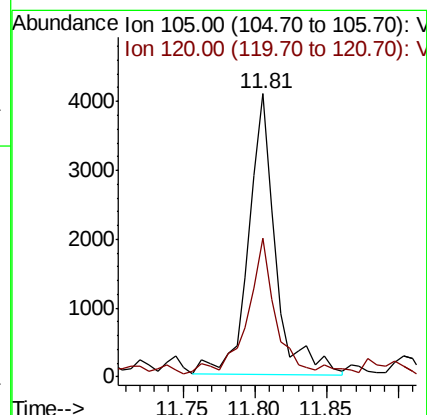
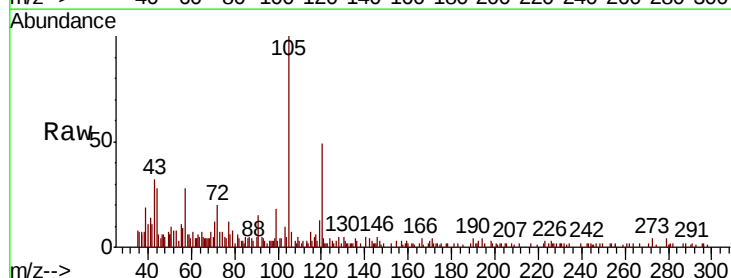
Acq: 03 Jan 2020 18:10

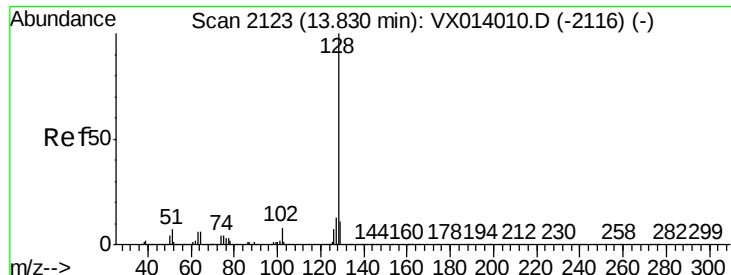
Tgt Ion:105 Resp: 5272

Ion Ratio Lower Upper

105 100

120 48.4 23.1 69.2

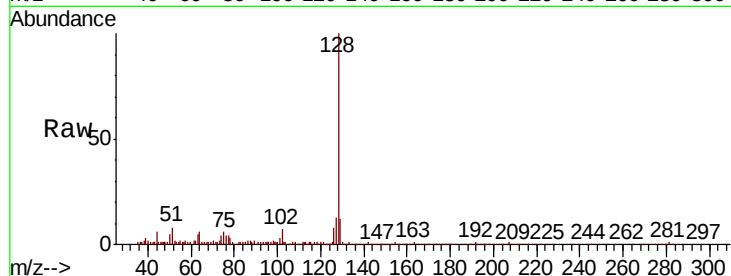




#95
Naphthalene
Concen: 1.582 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX014408.D
Acq: 03 Jan 2020 18:10

Instrument :
MSVOA_X
ClientSampleId :
OR-02-123119

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.2	15.4
129	12.7	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

