

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
 Data File : VX009819.D
 Acq On : 22 May 2019 22:11
 Operator : JC/SP
 Sample : VX0522MBL02
 Misc : 5.00µL/100µL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 07:20:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	172777	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	277657	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	242564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	98782	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	127346	53.99	ug/l	0.00
Spiked Amount			Recovery	=	107.98%	
35) Dibromofluoromethane	5.50	113	91455	52.40	ug/l	0.00
Spiked Amount			Recovery	=	104.80%	
50) Toluene-d8	8.71	98	373681	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	
62) 4-Bromofluorobenzene	11.13	95	122363	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	

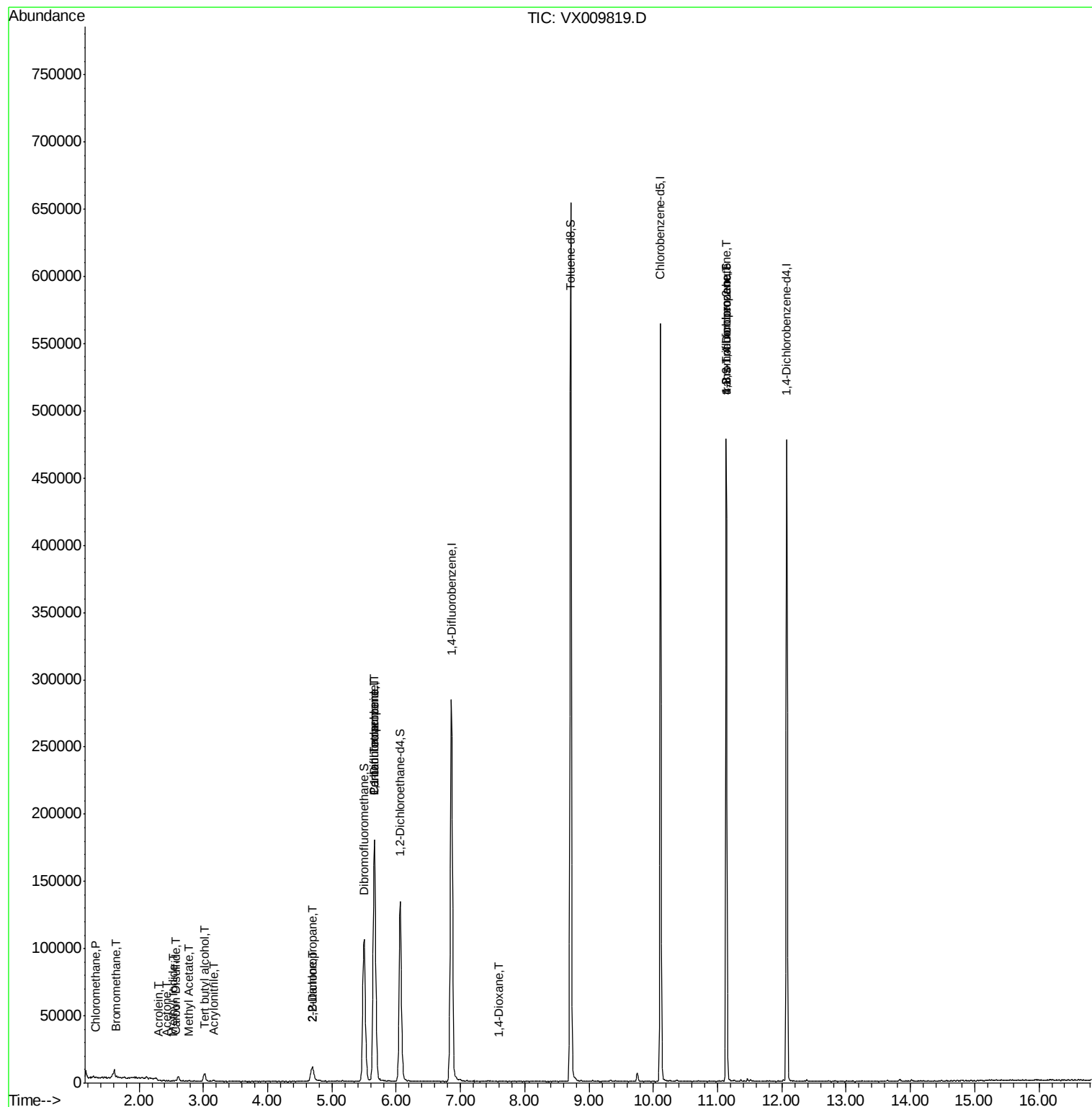
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	438	0.201	ug/l	90
5) Bromomethane	1.65	94	584	0.459	ug/l	94
10) Methyl Iodide	2.52	142	416	4.795	ug/l #	73
11) Tert butyl alcohol	3.02	59	3950	7.235	ug/l #	76
13) Acrolein	2.30	56	240	0.485	ug/l #	47
15) Acrylonitrile	3.15	53	396	0.297	ug/l #	73
16) Acetone	2.44	43	485	0.383	ug/l #	80
17) Carbon Disulfide	2.57	76	1225	0.269	ug/l #	83
18) Methyl Acetate	2.78	43	723	0.240	ug/l #	85
25) 2-Butanone	4.69	43	1161	0.590	ug/l #	53
26) 2,2-Dichloropropane	4.69	77	1041	0.373	ug/l #	53
28) Bromochloromethane	5.01	49	78	Below Cal	#	20
36) 1,1-Dichloropropene	5.67	75	13522	5.240	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16284	6.946	ug/l #	16
49) 1,4-Dioxane	7.60	88	19	0.328	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	63594	27.754	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63594	71.011	ug/l #	10

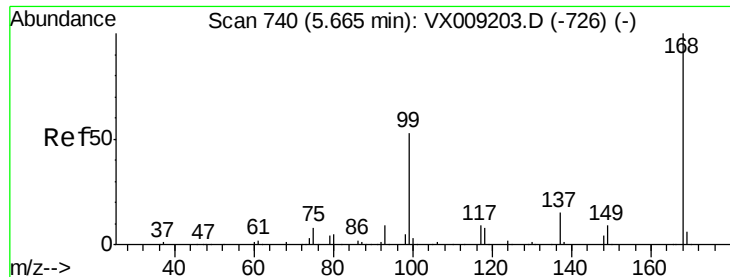
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052219\
Data File : VX009819.D
Acq On : 22 May 2019 22:11
Operator : JC/SP
Sample : VX0522MBL02
Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: May 23 07:20:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

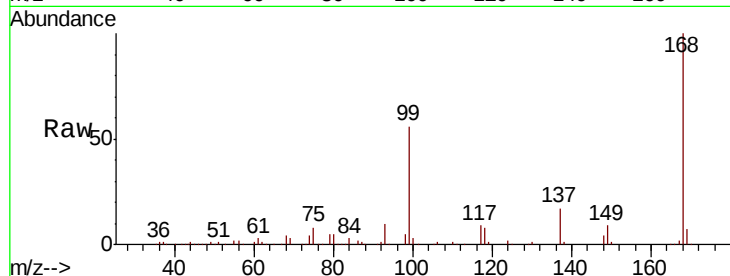
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 172777

Ion Ratio Lower Upper

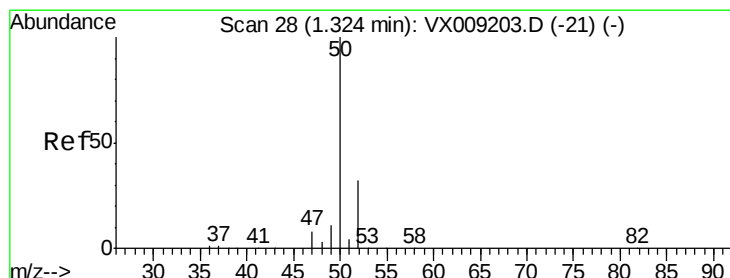
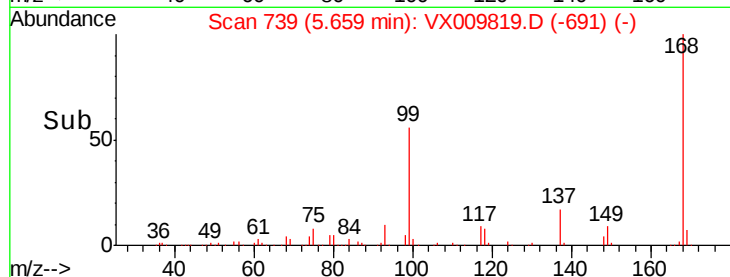
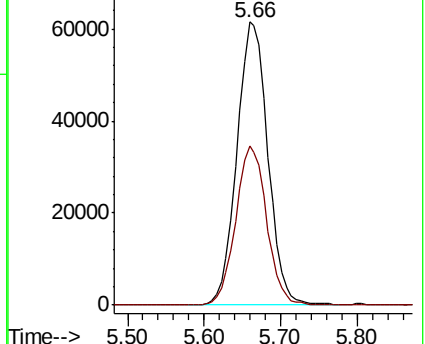
168 100

99 56.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009819.D

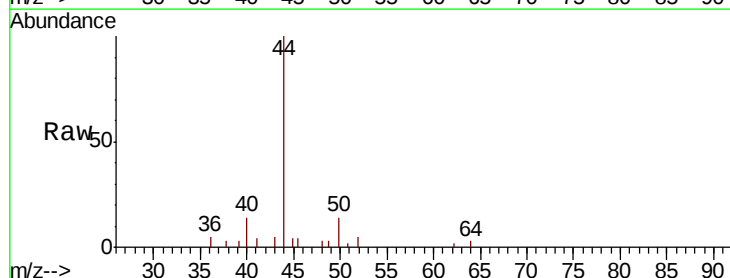
Acq: 22 May 2019 22:11

Tgt Ion: 50 Resp: 438

Ion Ratio Lower Upper

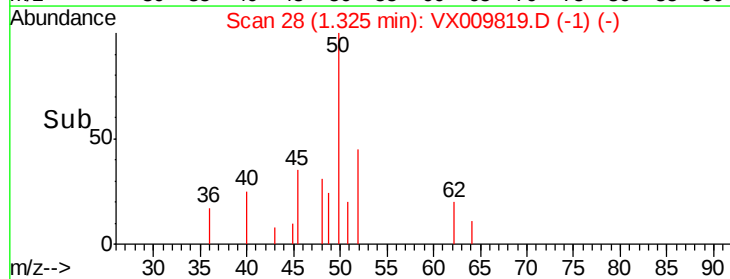
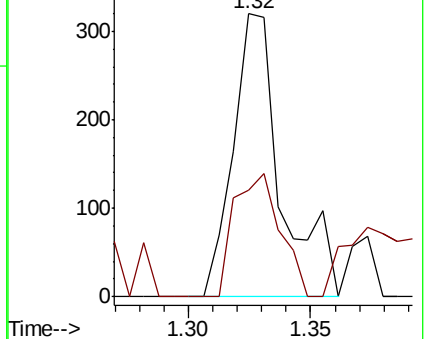
50 100

52 37.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.459 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :

MSVOA_X

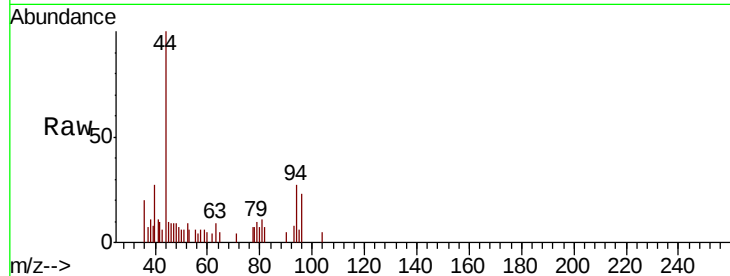
ClientSampleId :

Tot Ion: 94 Resp: 584

Ion Ratio Lower Upper

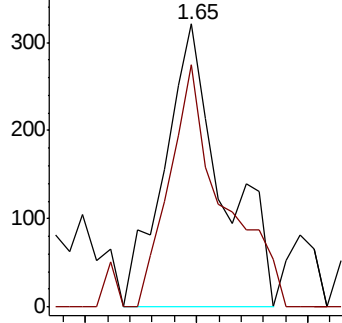
94 100

96 85.4 73.0 109.6

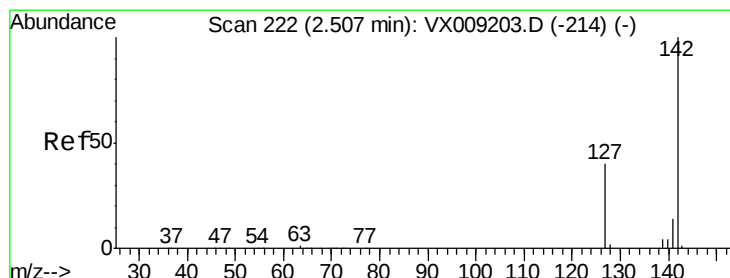
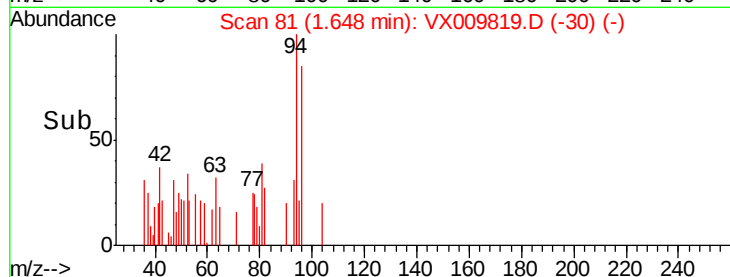


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 4.795 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

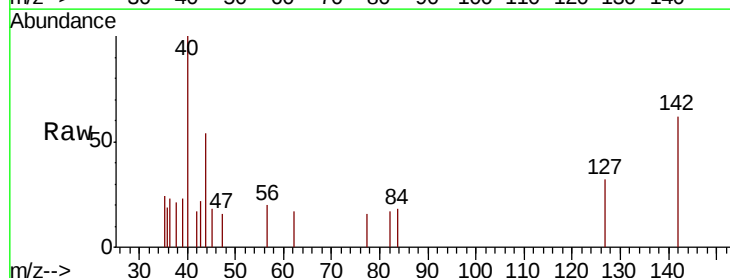
Tgt Ion: 142 Resp: 416

Ion Ratio Lower Upper

142 100

127 26.2 32.7 49.1#

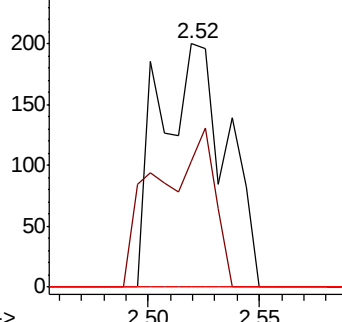
141 0.0 11.5 17.3#



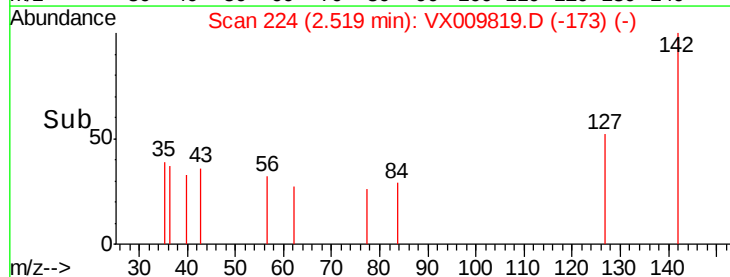
Abundance Ion 141.80 (141.50 to 142.50): V

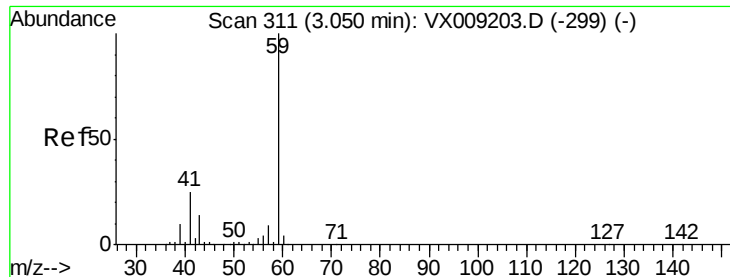
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

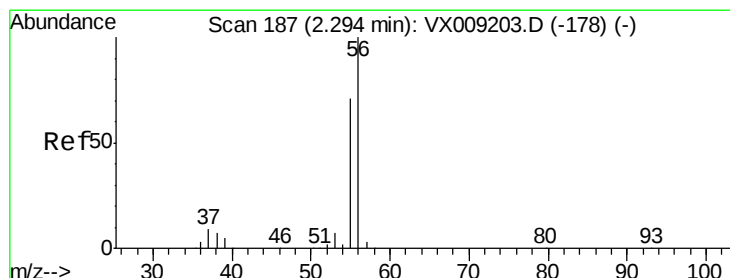
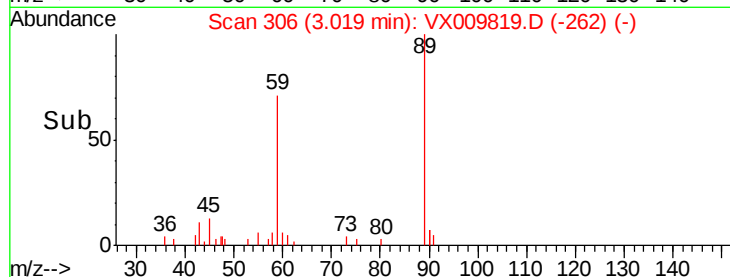
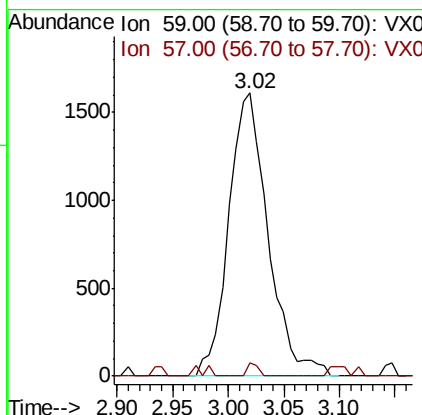
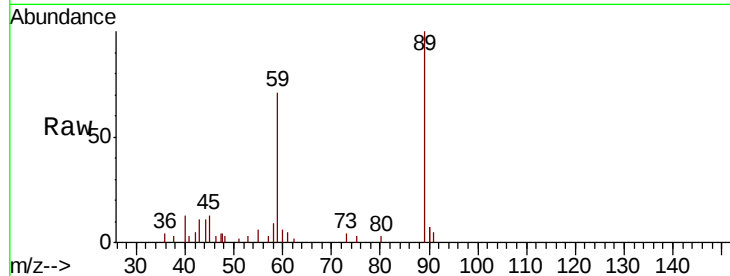




#11
Tert butyl alcohol
Concen: 7.235 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009819.D
Acq: 22 May 2019 22:11

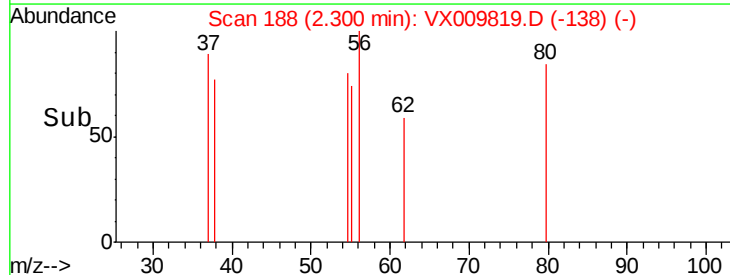
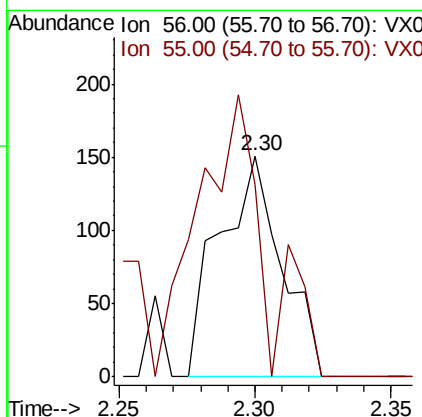
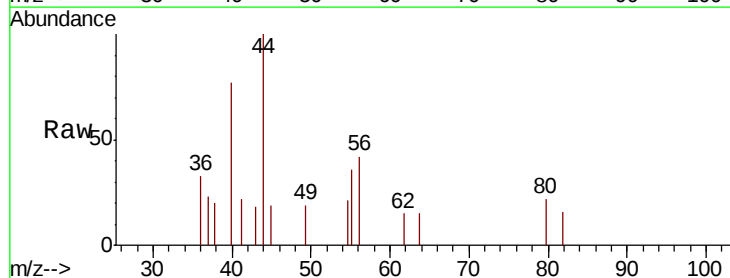
Instrument :
MSVOA_X
ClientSampled :

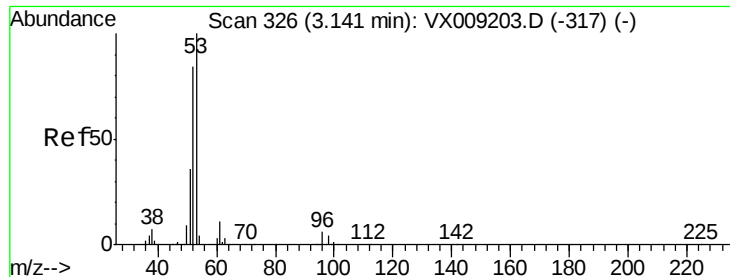
Tot Ion: 59 Resp: 3950
Ion Ratio Lower Upper
59 100
57 1.3 8.2 12.2#



#13
Acrolein
Concen: 0.485 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX009819.D
Acq: 22 May 2019 22:11

Tgt Ion: 56 Resp: 240
Ion Ratio Lower Upper
56 100
55 114.2 56.6 85.0#





#15

Acrylonitrile

Concen: 0.297 ug/l

RT: 3.15 min Scan# 328

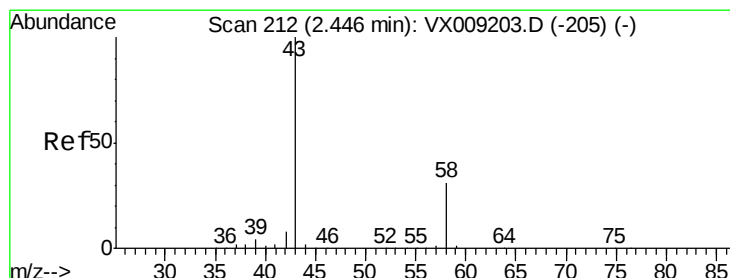
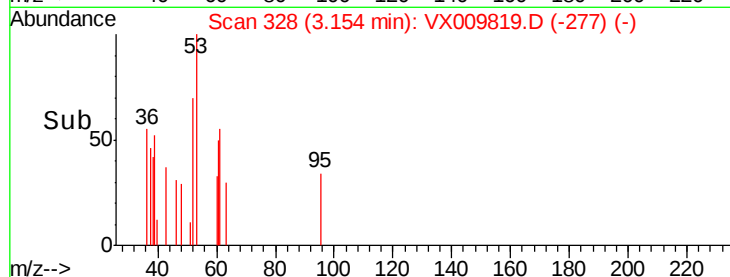
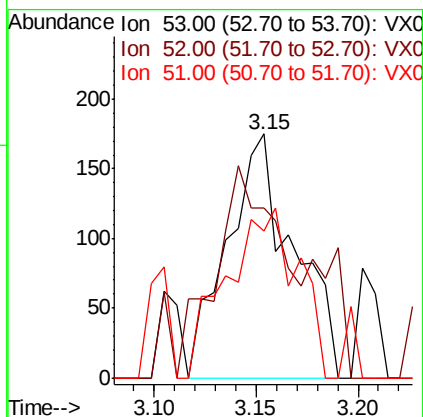
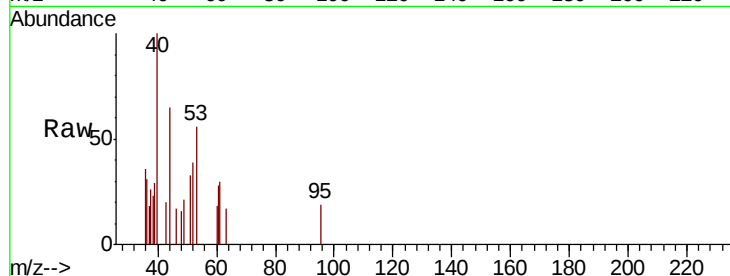
Delta R.T. 0.01 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	396
Ion	Ratio	Lower	Upper
53	100		
52	91.4	66.9	100.3
51	75.8	28.2	42.2#



#16

Acetone

Concen: 0.383 ug/l

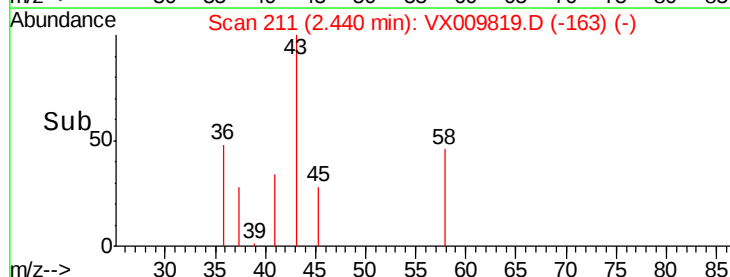
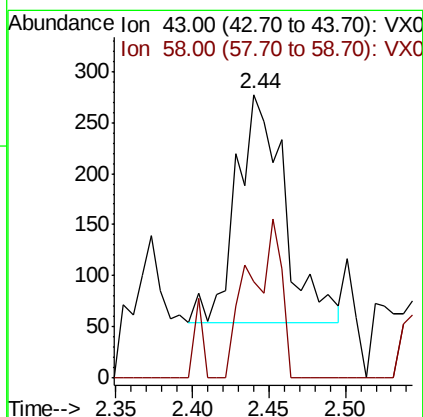
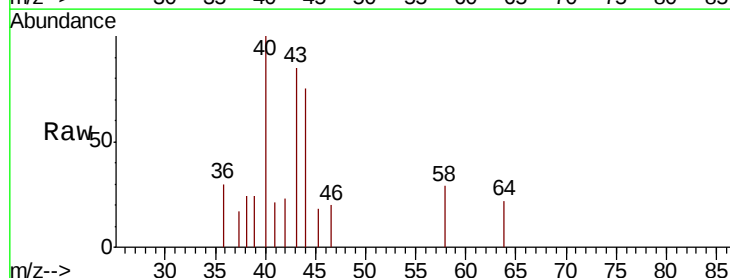
RT: 2.44 min Scan# 211

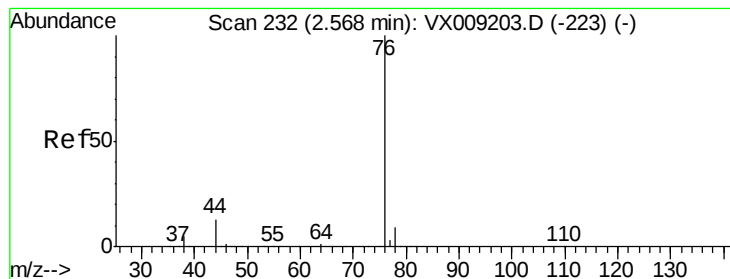
Delta R.T. -0.01 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Tgt Ion:	43	Resp:	485
Ion	Ratio	Lower	Upper
43	100		
58	42.0	24.9	37.3#





#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :

MSVOA_X

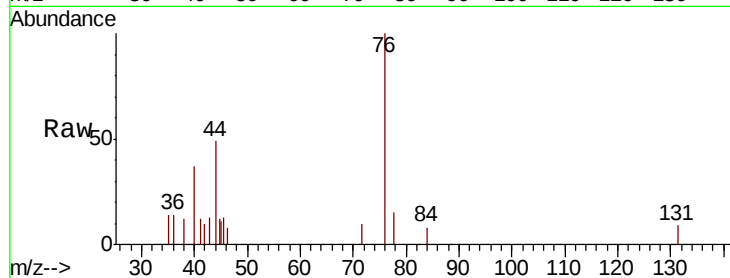
ClientSampled :

Tot Ion: 76 Resp: 1225

Ion Ratio Lower Upper

76 100

78 15.3 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

600

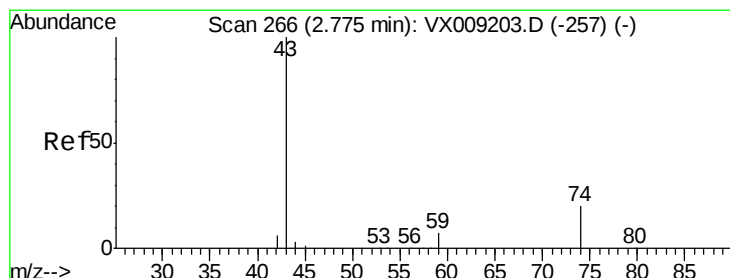
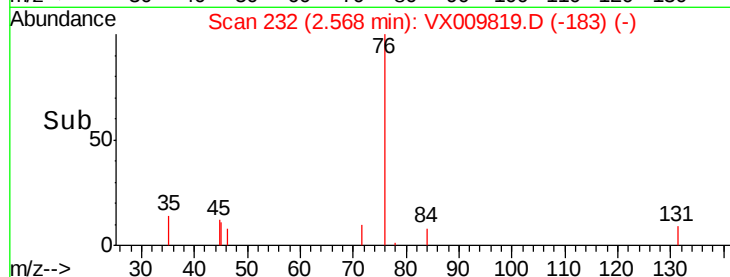
400

200

0

2.50 2.55 2.60

Time-->



#18

Methyl Acetate

Concen: 0.240 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009819.D

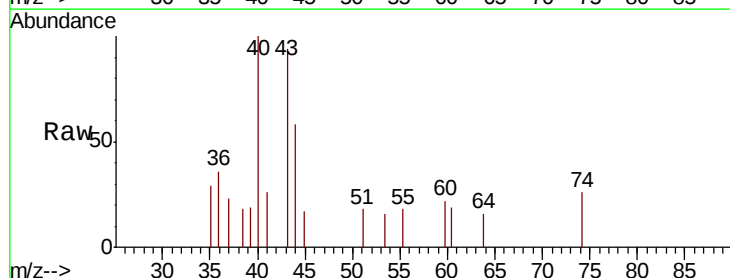
Acq: 22 May 2019 22:11

Tgt Ion: 43 Resp: 723

Ion Ratio Lower Upper

43 100

74 13.6 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

300

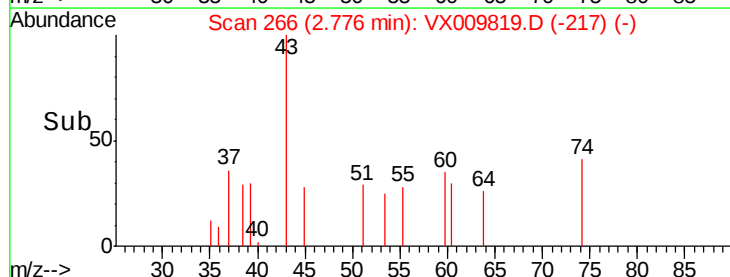
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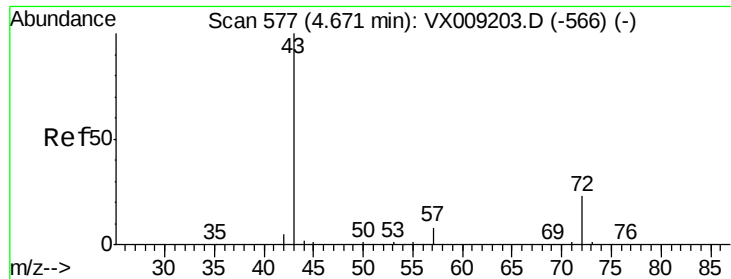
100

0

2.75 2.80 2.85

Time-->

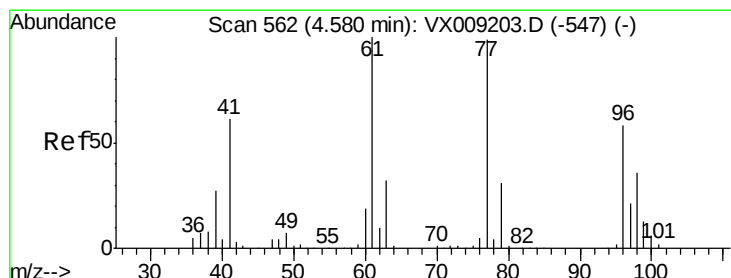
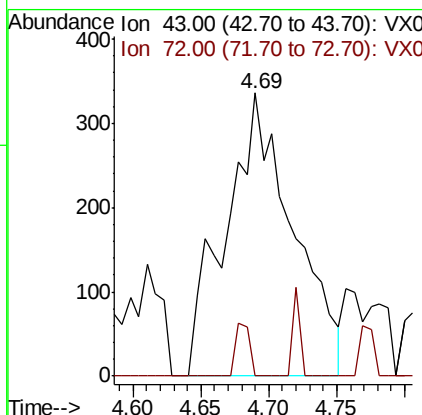
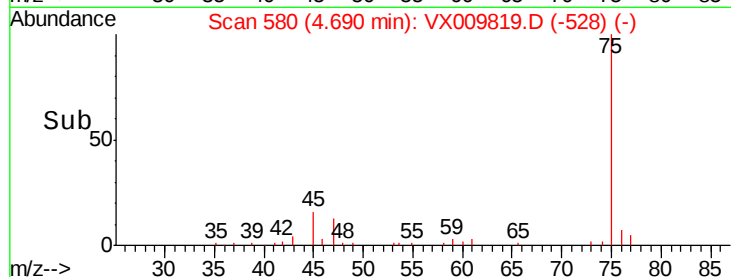
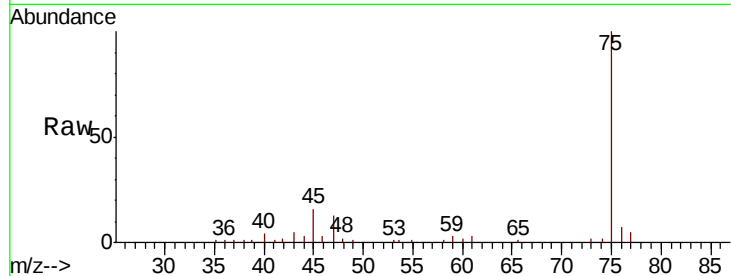




#25
2-Butanone
Concen: 0.590 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX009819.D
Acq: 22 May 2019 22:11

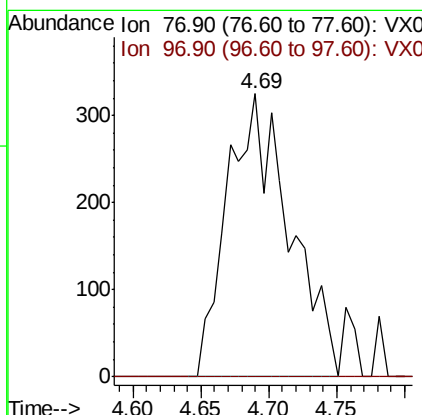
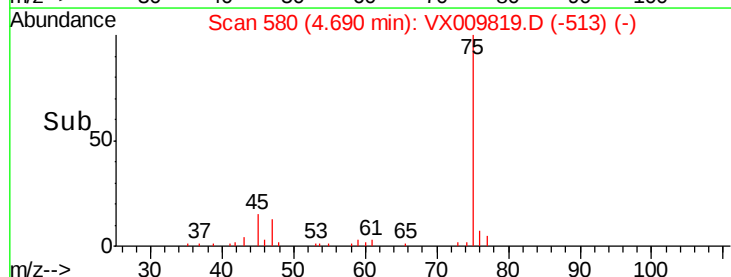
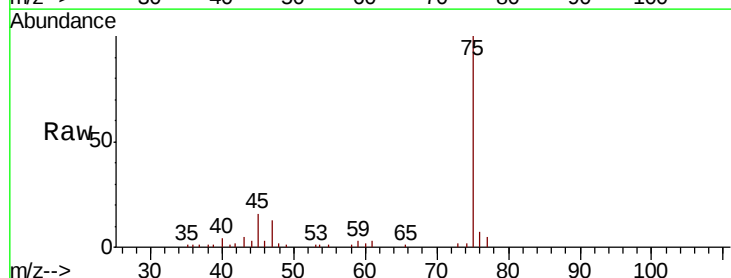
Instrument :
MSVOA_X
ClientSampleId :

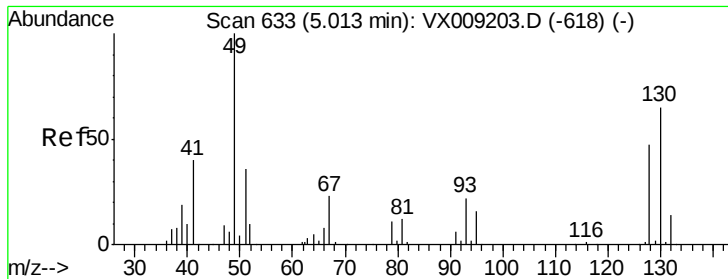
Tot Ion: 43 Resp: 1161
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#26
2,2-Dichloropropane
Concen: 0.373 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.11 min
Lab File: VX009819.D
Acq: 22 May 2019 22:11

Tgt Ion: 77 Resp: 1041
Ion Ratio Lower Upper
77 100
97 0.0 11.5 34.4#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :
MSVOA_X
ClientSampleId :

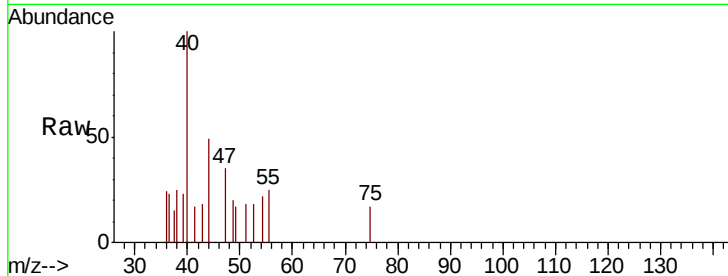
Tot Ion: 49 Resp: 78

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.01

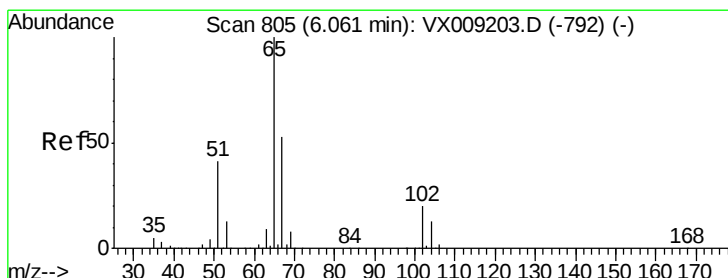
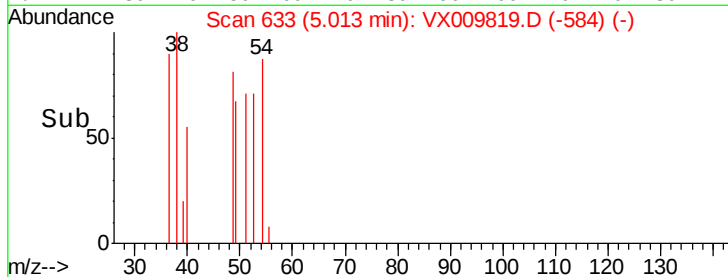
100

50

0

4.99 5.00 5.01 5.02 5.03

Time-->



#33

1,2-Dichloroethane-d4

Concen: 53.992 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009819.D

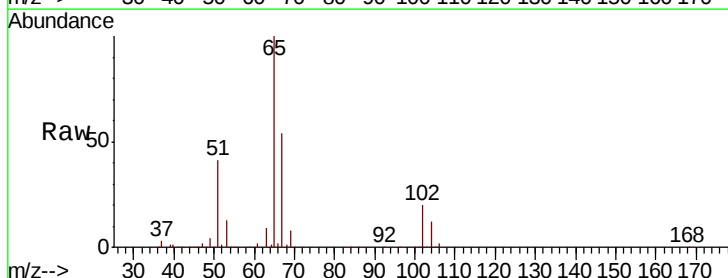
Acq: 22 May 2019 22:11

Tgt Ion: 65 Resp: 127346

Ion Ratio Lower Upper

65 100

67 53.3 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

50000

40000

30000

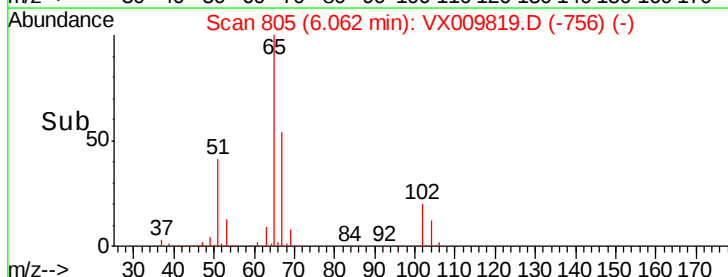
20000

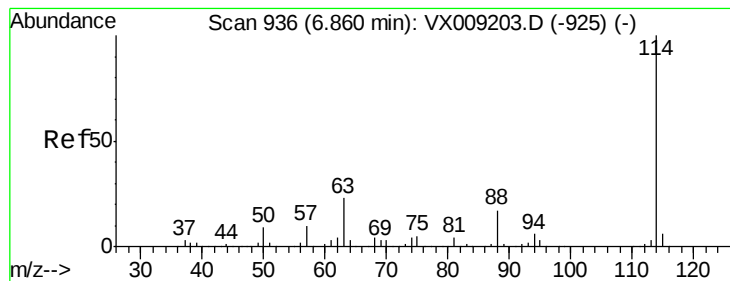
10000

0

6.00 6.01 6.02 6.03 6.04 6.05 6.06 6.07 6.08 6.09 6.10 6.11 6.12 6.13 6.14 6.15 6.16 6.17 6.18 6.19 6.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :

MSVOA_X

ClientSampleId :

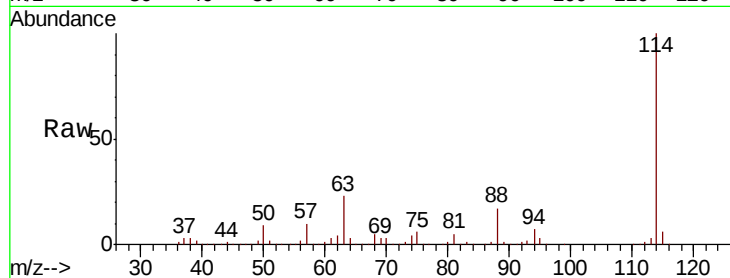
Tot Ion:114 Resp: 277657

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.6

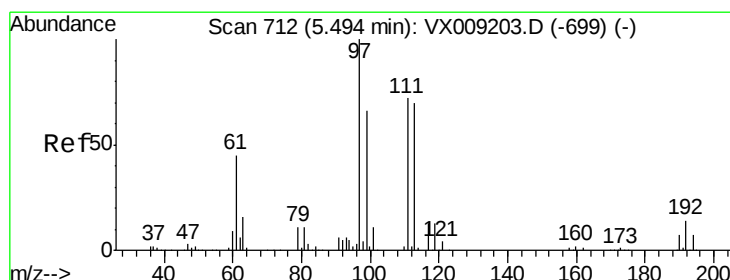
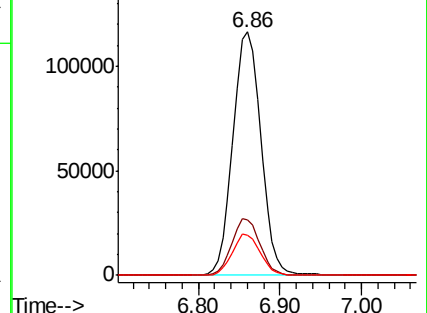
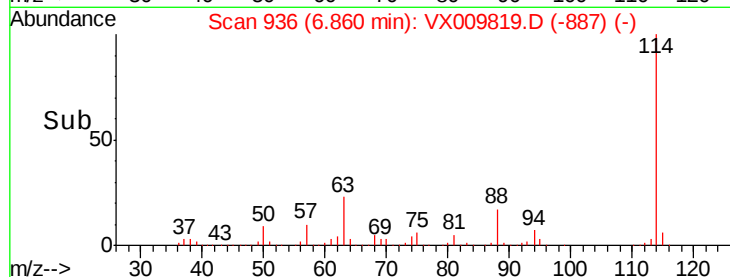
88 16.7 0.0 33.2



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: 52.396 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

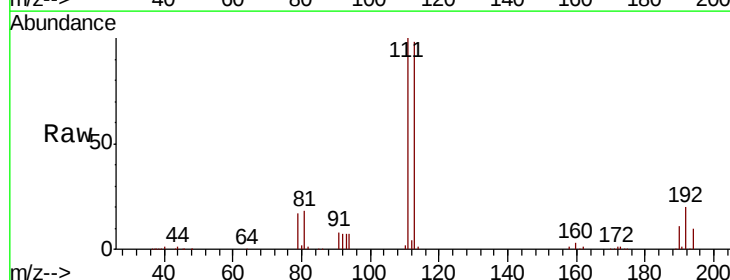
Tgt Ion:113 Resp: 91455

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

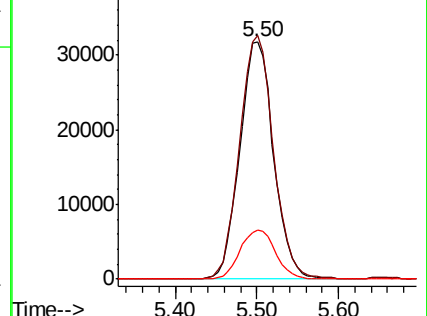
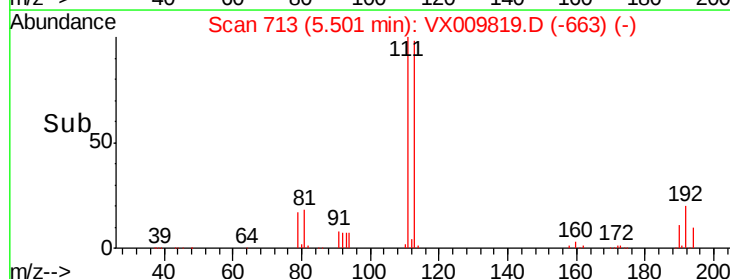
192 21.6 17.0 25.6

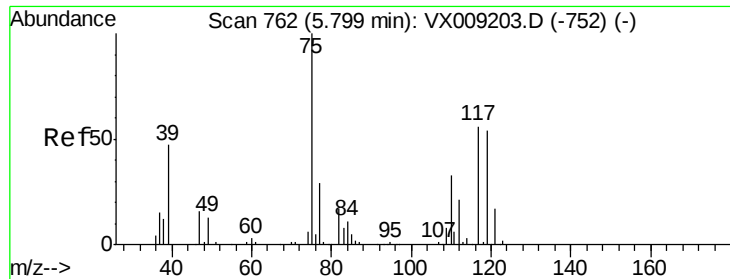


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.240 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :

MSVOA_X

ClientSampleId :

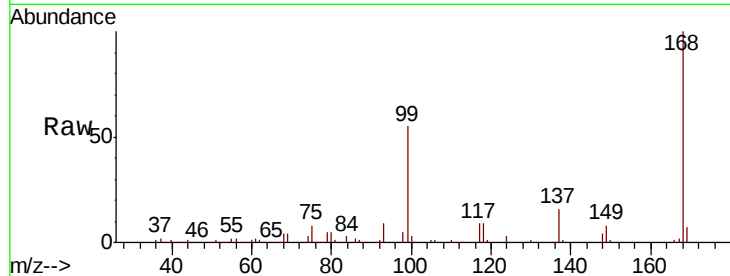
Tot Ion: 75 Resp: 13522

Ion Ratio Lower Upper

75 100

110 9.4 16.9 50.6#

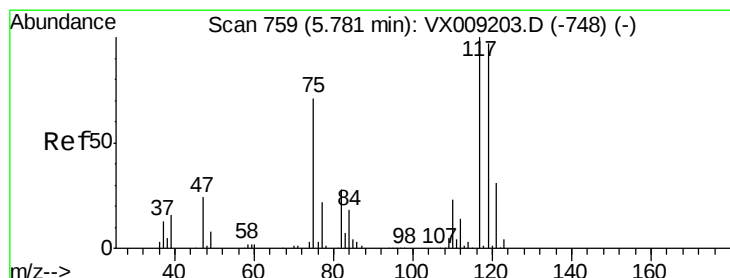
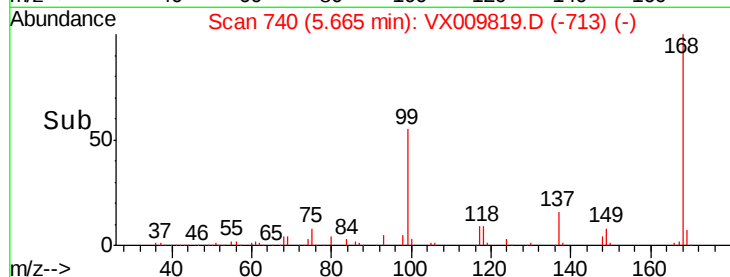
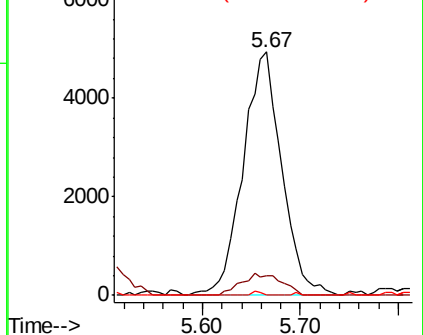
77 0.4 24.8 37.2#



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: 6.946 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

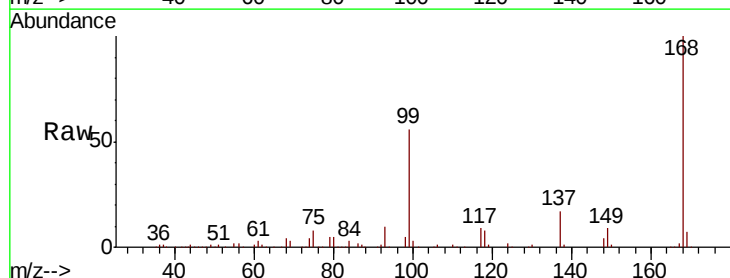
Tgt Ion:117 Resp: 16284

Ion Ratio Lower Upper

117 100

119 6.1 77.5 116.3#

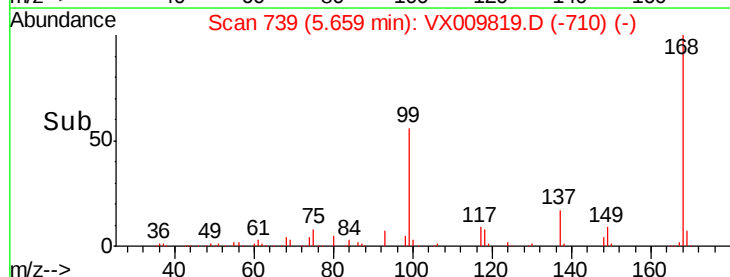
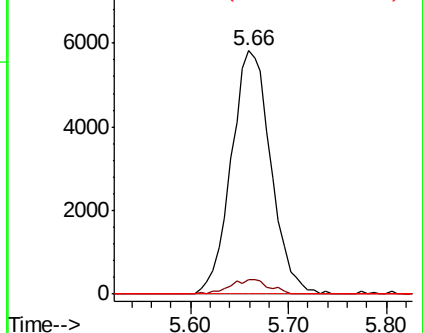
121 0.0 24.7 37.1#

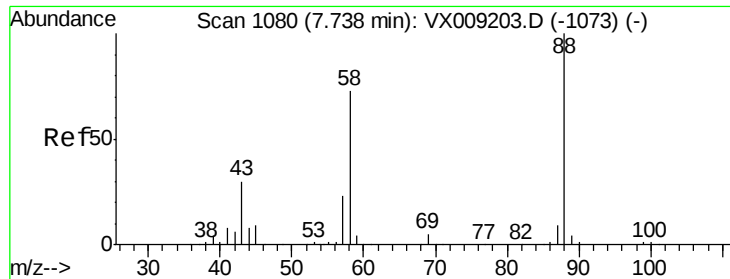


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

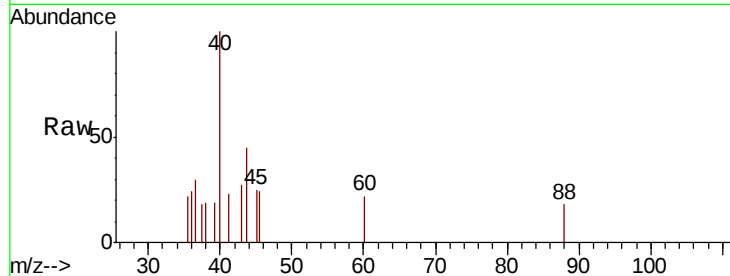




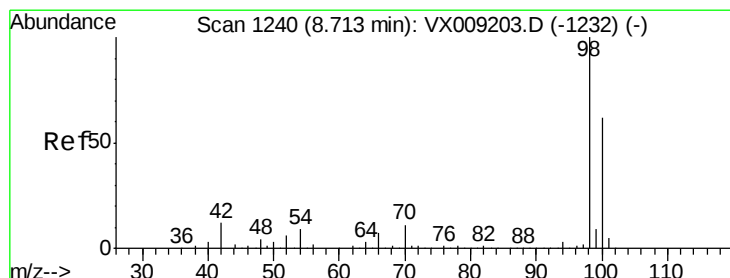
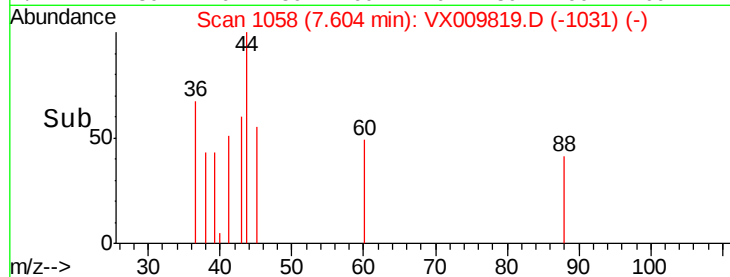
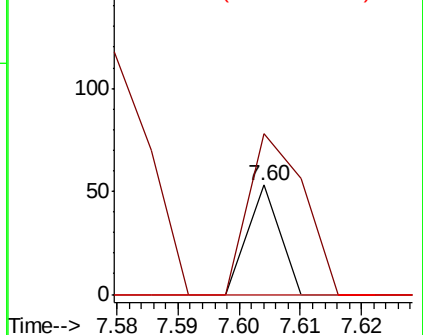
#49
 1,4-Dioxane
 Concen: 0.328 ug/l
 RT: 7.60 min Scan# 1058
 Delta R.T. -0.13 min
 Lab File: VX009819.D
 Acq: 22 May 2019 22:11

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 257.9 28.6 42.8#
 58 0.0 61.7 92.5#

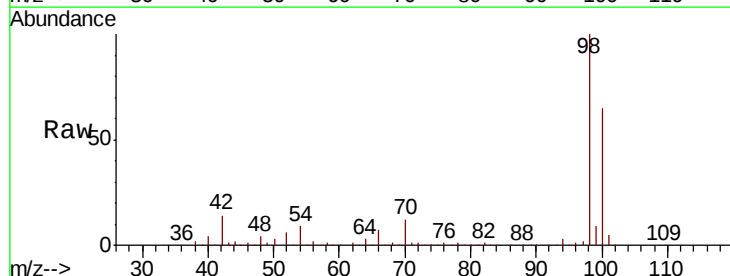


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

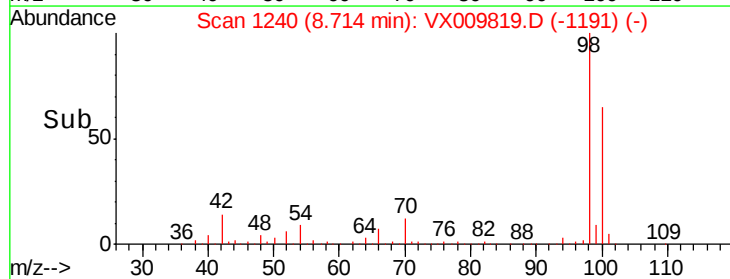
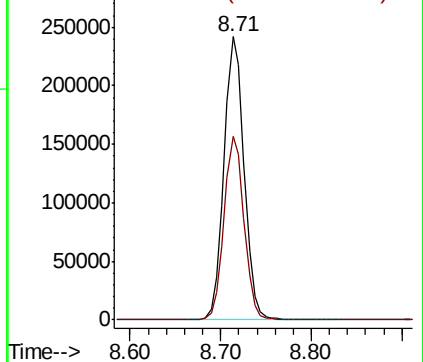


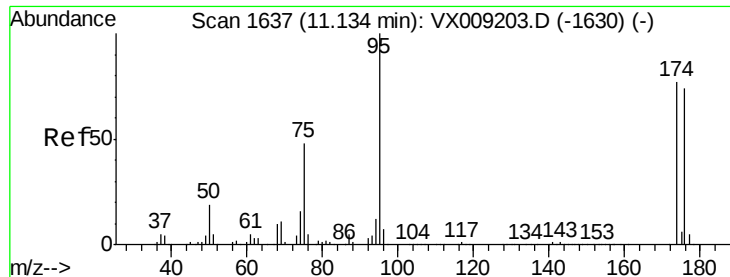
#50
 Toluene-d8
 Concen: 53.028 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009819.D
 Acq: 22 May 2019 22:11

Tgt Ion: 98 Resp: 373681
 Ion Ratio Lower Upper
 98 100
 100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 47.788 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :

MSVOA_X

ClientSampleId :

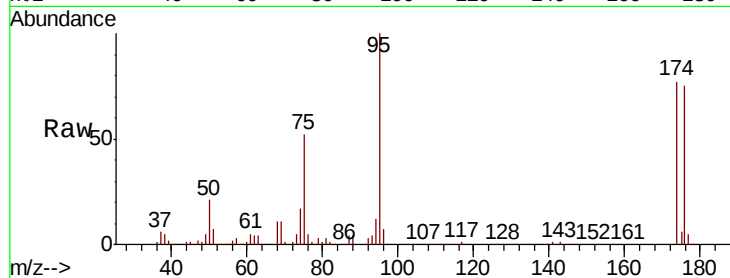
Tot Ion: 95 Resp: 122363

Ion Ratio Lower Upper

95 100

174 80.3 0.0 161.6

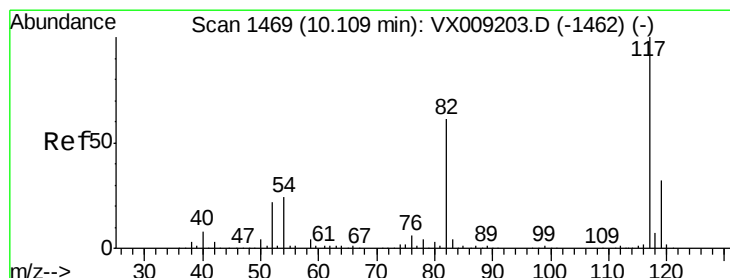
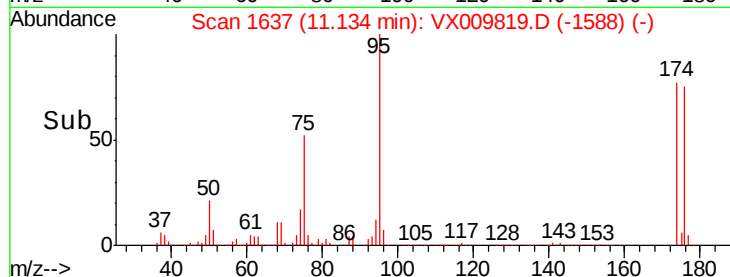
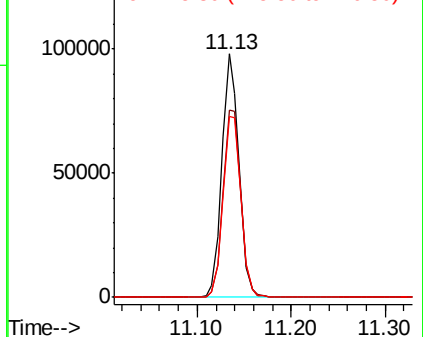
176 78.4 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

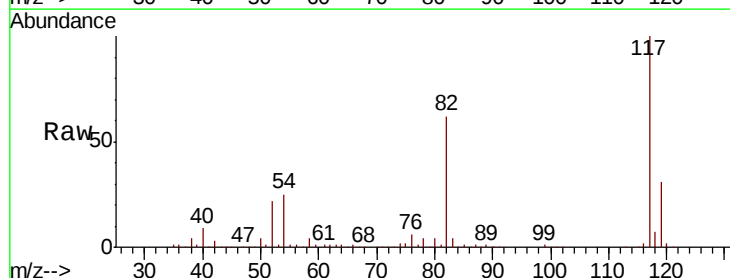
Tgt Ion: 117 Resp: 242564

Ion Ratio Lower Upper

117 100

82 61.8 48.8 73.2

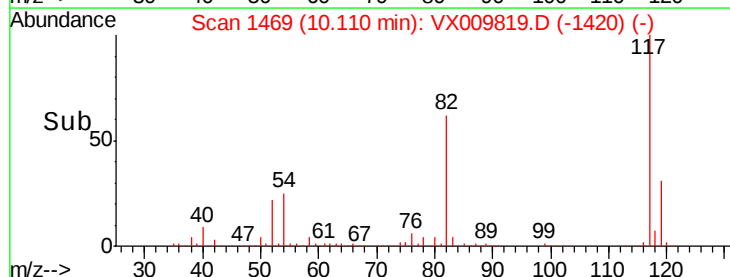
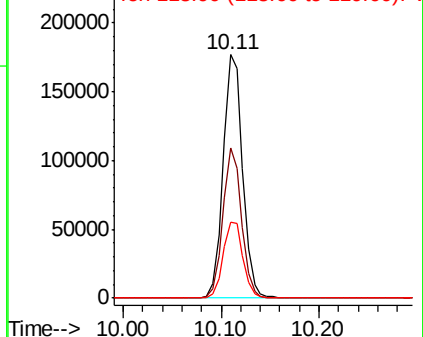
119 31.3 25.8 38.6

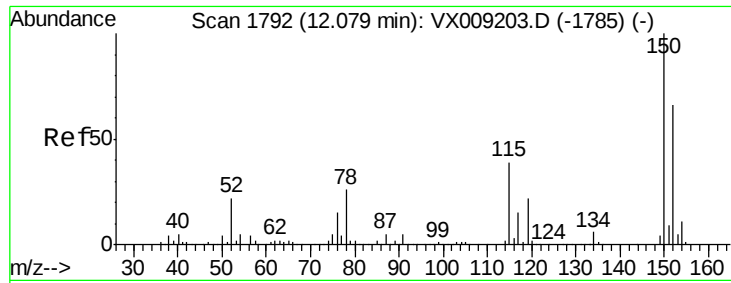


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



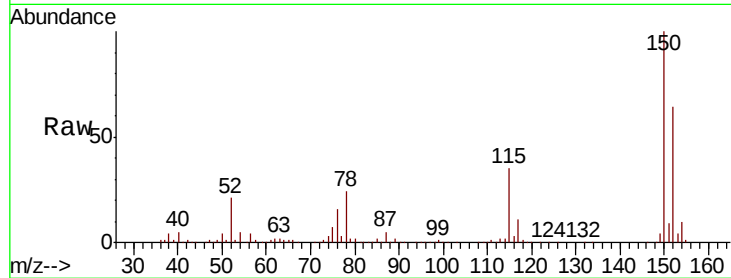


#72

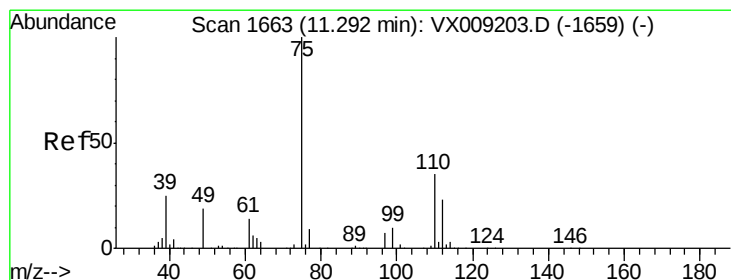
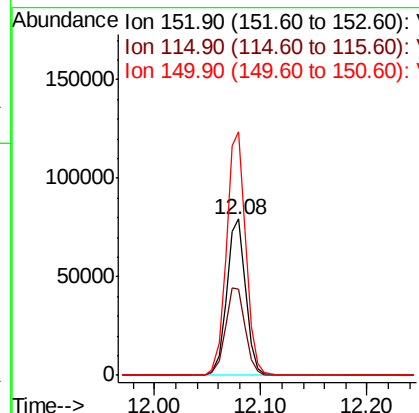
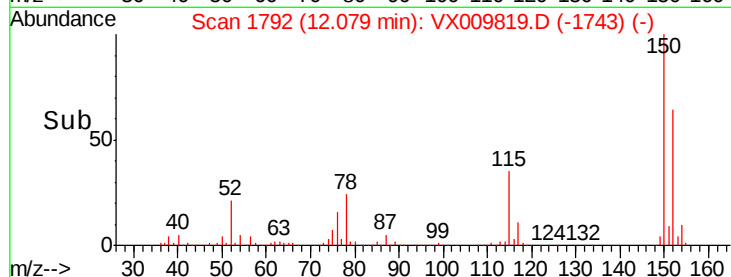
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009819.D
Acq: 22 May 2019 22:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 98782
Ion Ratio Lower Upper
152 100
115 58.0 41.2 123.6
150 157.6 0.0 346.4



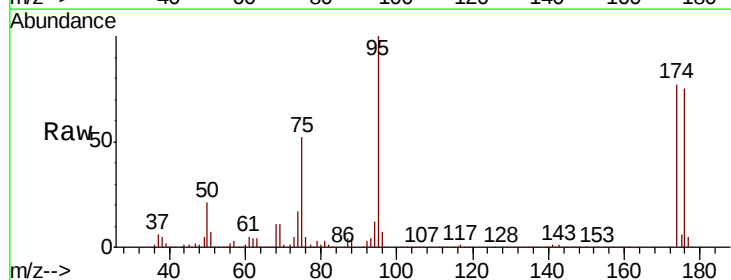
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



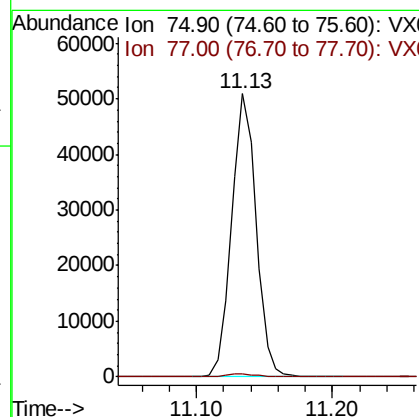
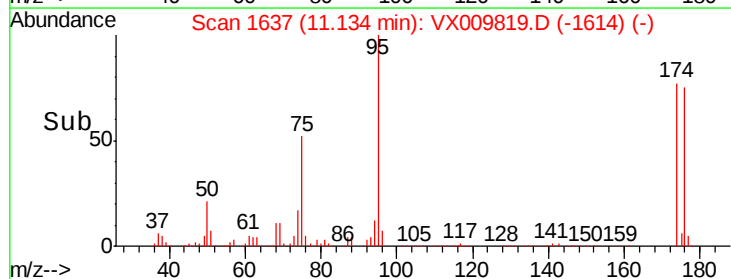
#76

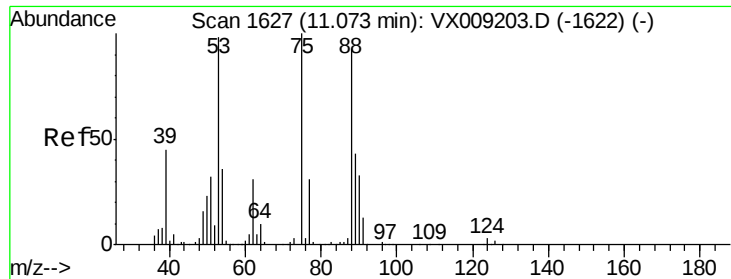
1,2,3-Trichloropropane
Concen: 27.754 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009819.D
Acq: 22 May 2019 22:11

Tgt Ion: 75 Resp: 63594
Ion Ratio Lower Upper
75 100
77 1.4 22.1 66.1#



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: 71.011 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009819.D

Acq: 22 May 2019 22:11

Instrument :

MSVOA_X

ClientSampleId :

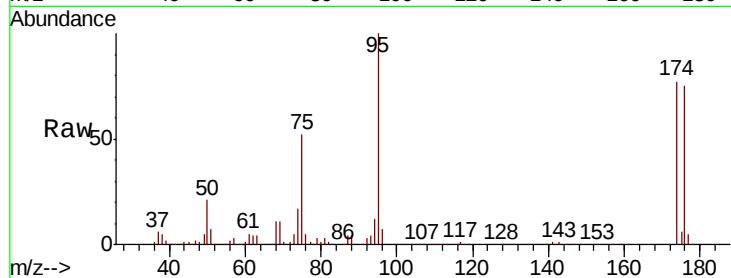
Tot Ion: 75 Resp: 63594

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

