

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120519\
 Data File : VX013778.D
 Acq On : 05 Dec 2019 15:49
 Operator : JC/SP
 Sample : K6099-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OF-3

Quant Time: Dec 06 02:28:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	4136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	572992	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	494986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	4079	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	219737	4576.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9153.88%	
35) Dibromofluoromethane	5.50	113	2449	0.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	1.38%	
50) Toluene-d8	8.71	98	675611	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
62) 4-Bromofluorobenzene	11.14	95	220974	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	74	1.607	ug/l #	43
3) Chloromethane	1.31	50	996	19.282	ug/l #	66
4) Vinyl Chloride	1.42	62	831	14.293	ug/l #	42
5) Bromomethane	1.64	94	873	22.359	ug/l #	68
6) Chloroethane	1.69	64	590	17.833	ug/l #	66
7) Trichlorofluoromethane	1.93	101	489	7.575	ug/l #	49
8) Diethyl Ether	2.17	74	852	29.171	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	102	2.587	ug/l #	1
10) Methyl Iodide	2.50	142	290	6.080	ug/l #	1
11) Tert butyl alcohol	3.04	59	1323	111.643	ug/l #	1
12) 1,1-Dichloroethene	2.35	96	273	6.936	ug/l #	40
13) Acrolein	2.28	56	1588	201.566	ug/l	89
14) Allyl chloride	2.72	41	346	4.844	ug/l #	18
15) Acrylonitrile	3.13	53	293	11.978	ug/l #	1
16) Acetone	2.43	43	30978	1306.926	ug/l	93
17) Carbon Disulfide	2.57	76	1270	11.318	ug/l #	83
18) Methyl Acetate	2.76	43	2068	31.332	ug/l #	53
19) Methyl tert-butyl Ether	3.19	73	170	1.304	ug/l #	53
20) Methylene Chloride	2.84	84	655	14.384	ug/l #	47
21) trans-1,2-Dichloroethene	3.15	96	260	6.063	ug/l #	13
22) Diisopropyl ether	3.81	45	438	3.184	ug/l #	70
23) Vinyl Acetate	3.81	43	282	2.465	ug/l #	1
24) 1,1-Dichloroethane	3.68	63	827	10.999	ug/l #	83
25) 2-Butanone	4.67	43	3736	106.055	ug/l #	70
26) 2,2-Dichloropropane	4.68	77	439	7.057	ug/l	84
27) cis-1,2-Dichloroethene	4.54	96	351	7.128	ug/l	30
28) Bromochloromethane	5.01	49	156641	5273.064	ug/l	98
29) Tetrahydrofuran	5.10	42	651	29.977	ug/l #	32
30) Chloroform	4.91	83	476	6.242	ug/l	98
31) Cyclohexane	5.58	56	1931	27.228	ug/l #	16
32) 1,1,1-Trichloroethane	5.50	97	160	2.511	ug/l #	1
41) Methacrylonitrile	5.03	41	652	0.204	ug/l #	28
49) 1,4-Dioxane	7.72	88	540	5.169	ug/l #	23
51) 4-Methyl-2-Pentanone	8.64	43	53479	8.850	ug/l	100

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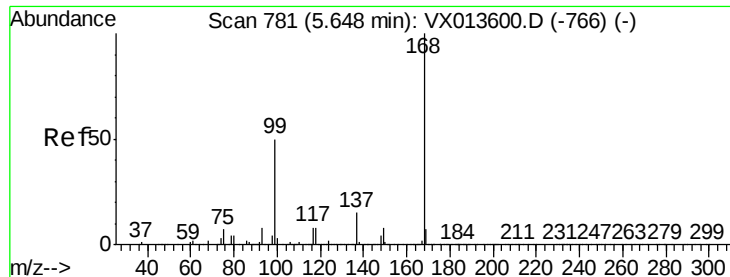
Instrument :
 MSVOA_X
 ClientSampleId :
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Quant Time: Dec 06 02:28:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

73) Isopropylbenzene	10.97	105	318	1.111	ug/l	82
74) N-amyl acetate	10.91	43	1794	13.687	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	11.26	83	205	2.066	ug/l #	19
76) 1,2,3-Trichloropropane	11.14	75	105293	1147.684	ug/l #	40
77) Bromobenzene	11.45	156	216	2.794	ug/l	74
78) n-propylbenzene	11.28	91	387	1.212	ug/l	87
79) 2-Chlorotoluene	11.42	91	763	3.982	ug/l	96
80) 1,3,5-Trimethylbenzene	11.56	105	197	0.840	ug/l	80
81) trans-1,4-Dichloro-2-buten	11.14	75	105293	3139.859	ug/l #	11
82) 4-Chlorotoluene	11.42	91	763	3.438	ug/l	98
83) tert-Butylbenzene	11.75	119	112	0.470	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.81	105	1445	6.071	ug/l	77
85) sec-Butylbenzene	11.84	105	576	2.116	ug/l	89
86) p-Isopropyltoluene	12.06	119	875	3.455	ug/l #	81
87) 1,3-Dichlorobenzene	12.21	146	330	2.449	ug/l	68
88) 1,4-Dichlorobenzene	12.09	146	625	4.554	ug/l #	36
89) n-Butylbenzene	12.40	91	921	4.264	ug/l #	32
90) Hexachloroethane	12.58	117	266	5.811	ug/l	55
91) 1,2-Dichlorobenzene	12.21	146	330	2.479	ug/l	70
92) 1,2-Dibromo-3-Chloropropan	13.03	75	377	17.447	ug/l	61
93) 1,2,4-Trichlorobenzene	13.64	180	373	4.020	ug/l #	54
94) Hexachlorobutadiene	13.71	225	127	2.849	ug/l	70
95) Naphthalene	13.83	128	2806	10.155	ug/l	98
96) 1,2,3-Trichlorobenzene	14.00	180	737	8.023	ug/l #	20

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

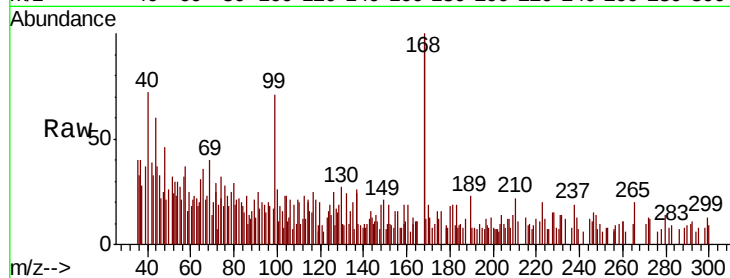
OF-3

Tot Ion:168 Resp: 4136

Ion Ratio Lower Upper

168 100

99 28.0 39.8 59.8#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

1500

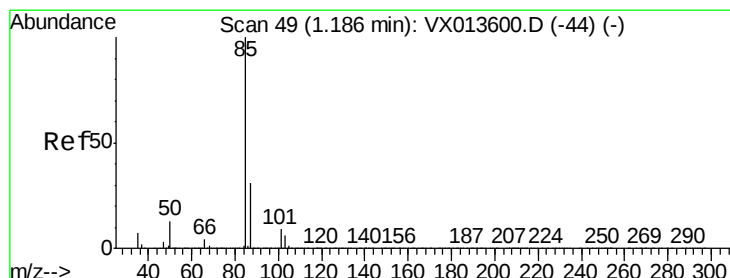
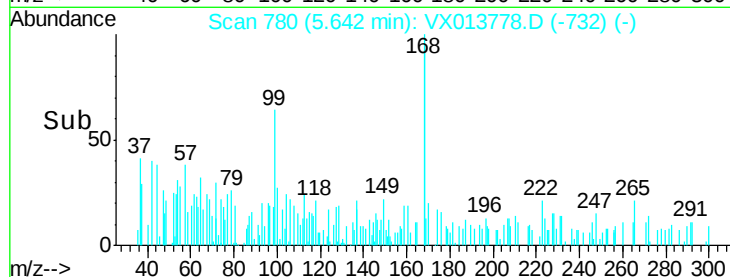
1000

500

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 1.607 ug/l

RT: 1.18 min Scan# 48

Delta R.T. -0.01 min

Lab File: VX013778.D

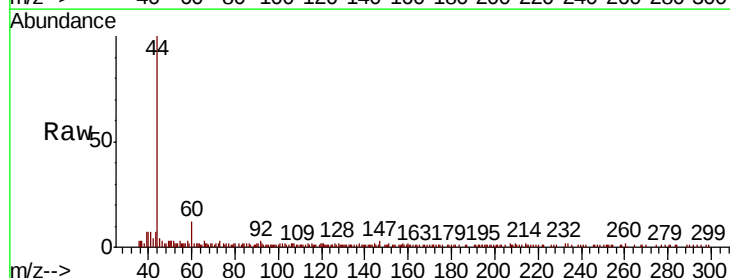
Acq: 05 Dec 2019 15:49

Tgt Ion: 85 Resp: 74

Ion Ratio Lower Upper

85 100

87 0.0 15.7 47.1#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

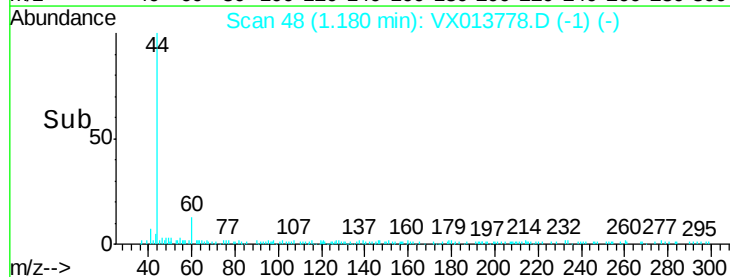
200

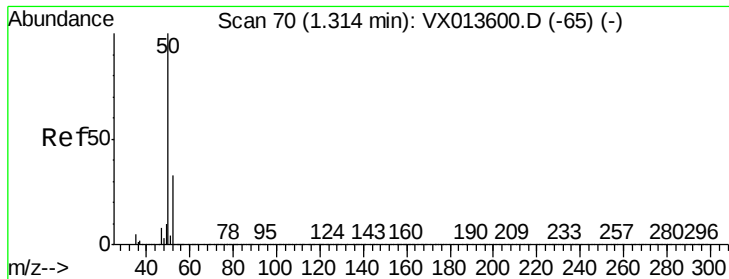
100

0

1.17 1.18 1.19

Time-->





#3

Chloromethane

Concen: 19.282 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

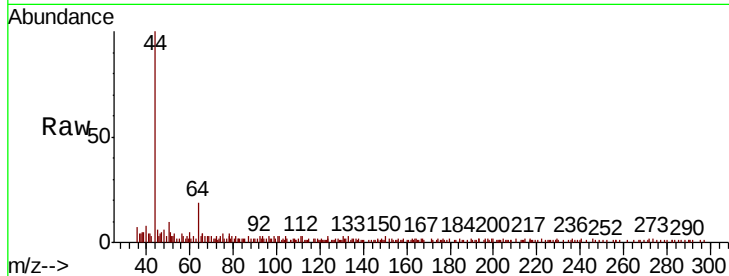
OF-3

Tot Ion: 50 Resp: 996

Ion Ratio Lower Upper

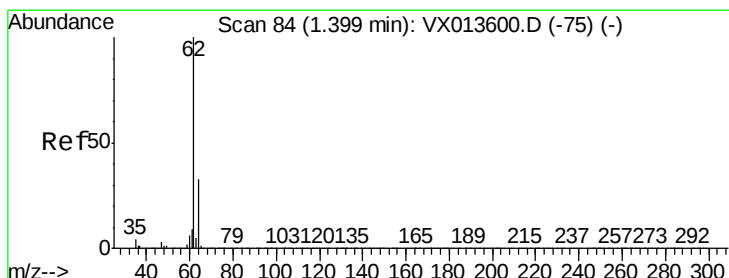
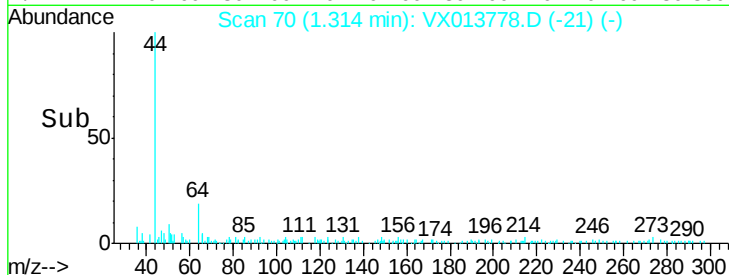
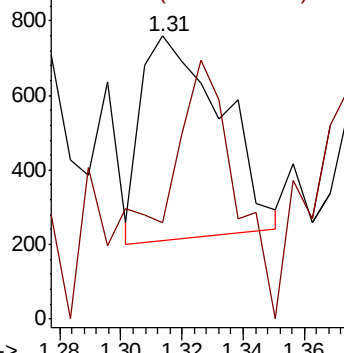
50 100

52 51.8 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 14.293 ug/l

RT: 1.42 min Scan# 87

Delta R.T. 0.02 min

Lab File: VX013778.D

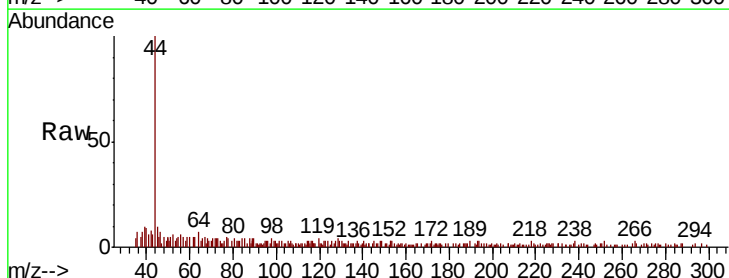
Acq: 05 Dec 2019 15:49

Tgt Ion: 62 Resp: 831

Ion Ratio Lower Upper

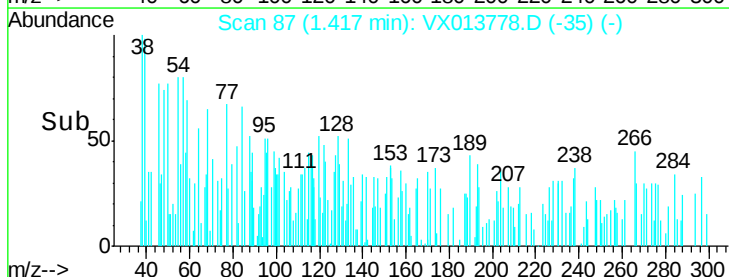
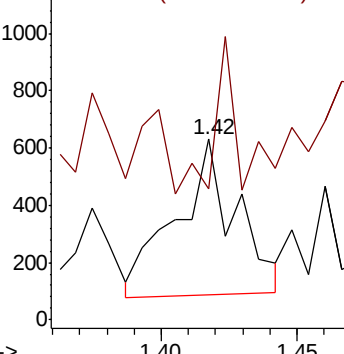
62 100

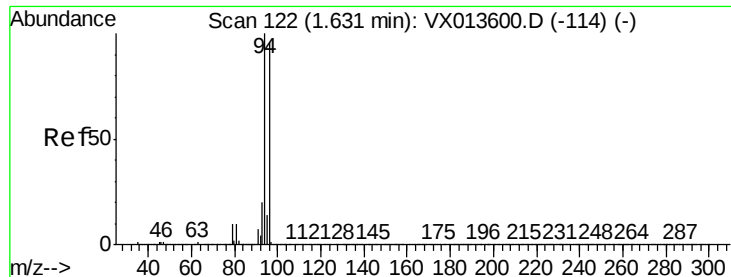
64 0.0 26.0 39.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 22.359 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

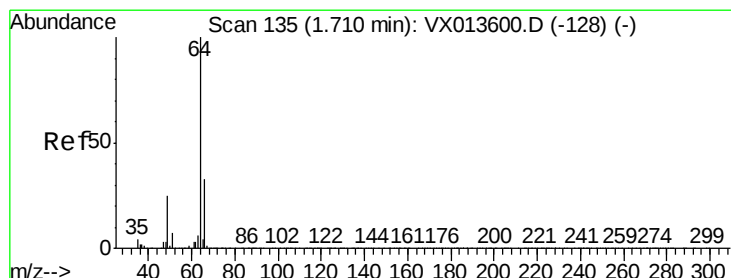
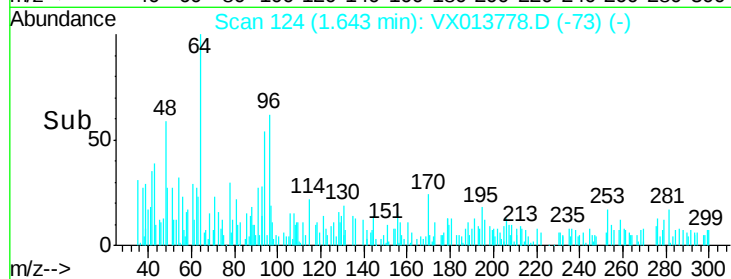
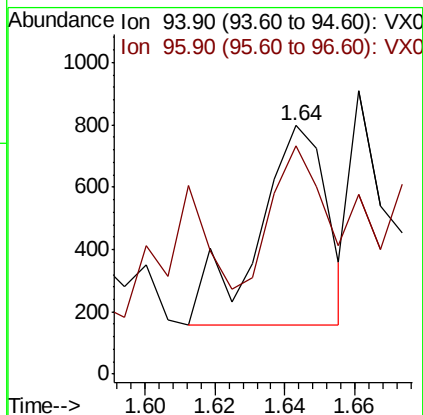
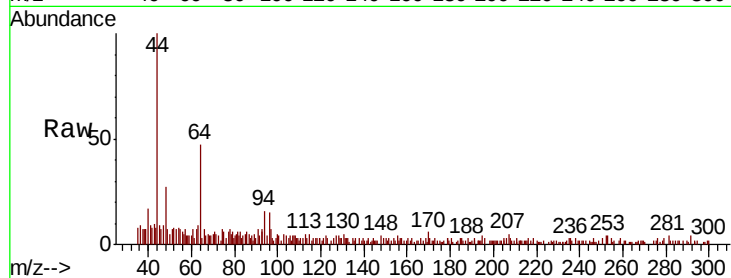
OF-3

Tot Ion: 94 Resp: 873

Ion Ratio Lower Upper

94 100

96 65.1 77.0 115.4#



#6

Chloroethane

Concen: 17.833 ug/l

RT: 1.69 min Scan# 132

Delta R.T. -0.02 min

Lab File: VX013778.D

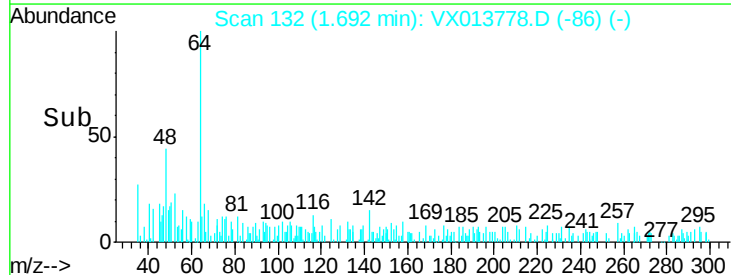
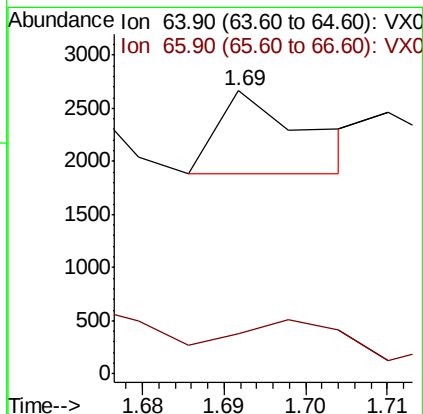
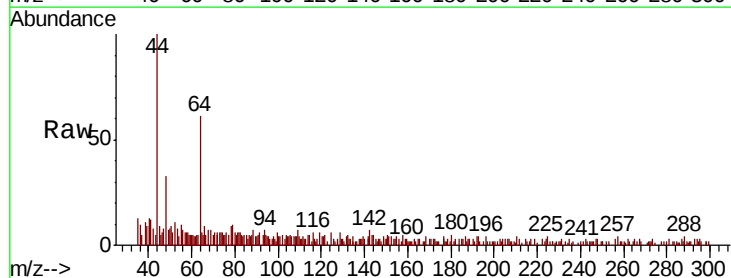
Acq: 05 Dec 2019 15:49

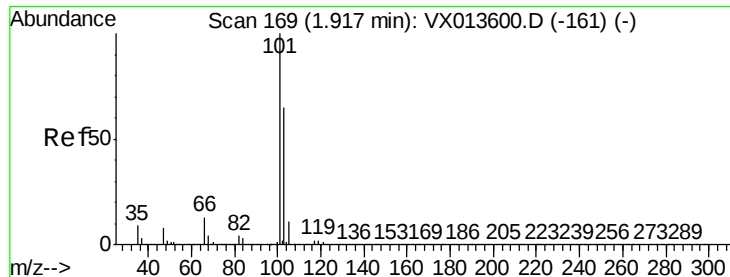
Tgt Ion: 64 Resp: 590

Ion Ratio Lower Upper

64 100

66 14.1 26.7 40.1#



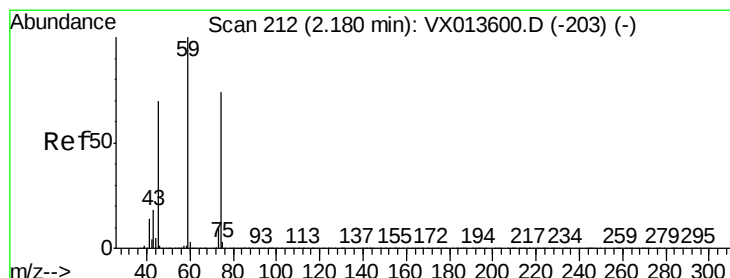
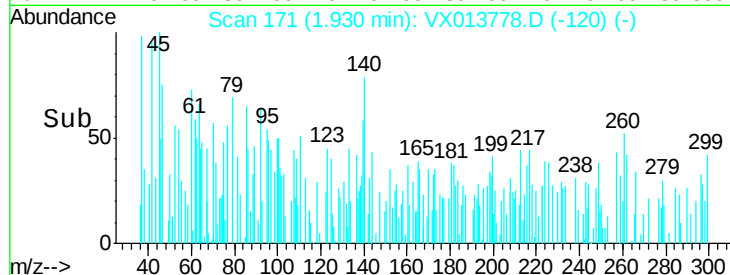
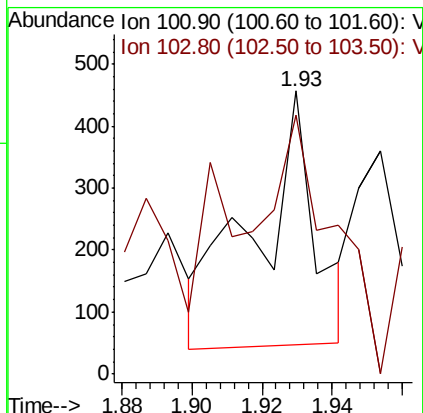
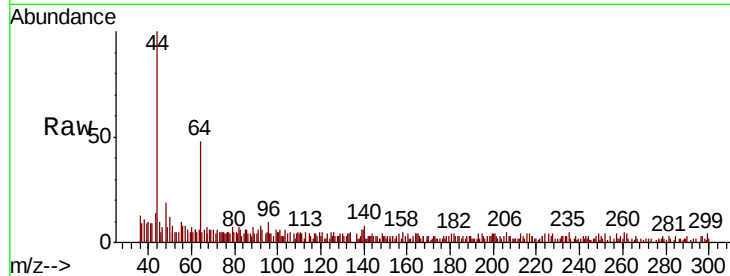


#7

Trichlorofluoromethane
Concen: 7.575 ug/l
RT: 1.93 min Scan# 171
Delta R.T. 0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Instrument :
MSVOA_X
ClientSampleId :
OF-3

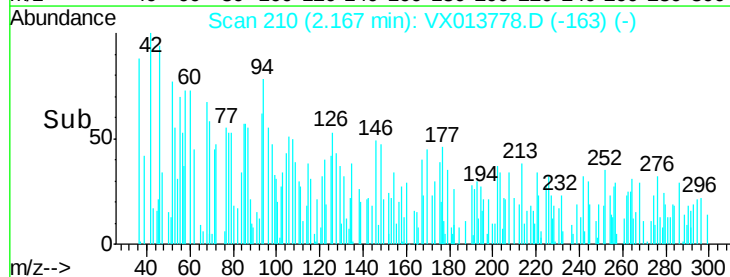
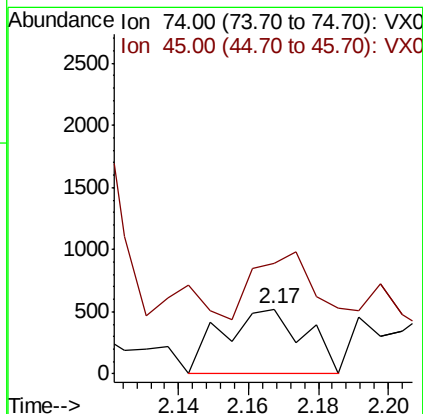
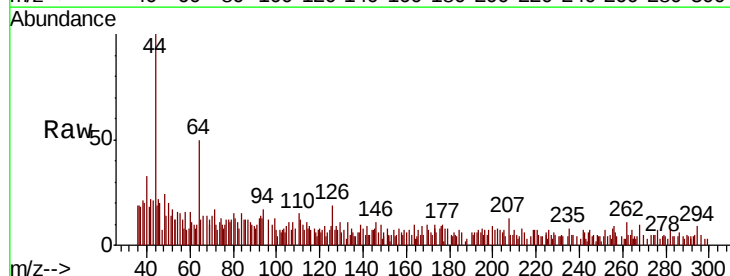
Tot Ion:101 Resp: 489
Ion Ratio Lower Upper
101 100
103 104.6 51.8 77.6#

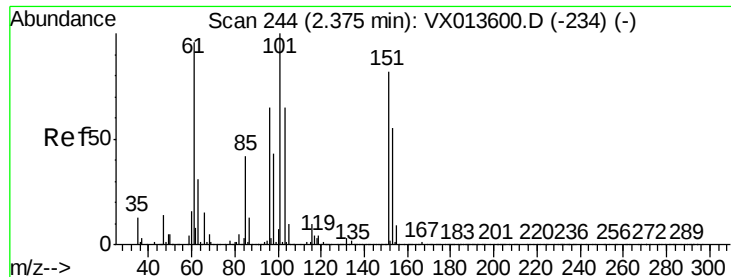


#8

Diethyl Ether
Concen: 29.171 ug/l
RT: 2.17 min Scan# 210
Delta R.T. -0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion: 74 Resp: 852
Ion Ratio Lower Upper
74 100
45 103.6 48.9 146.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.587 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

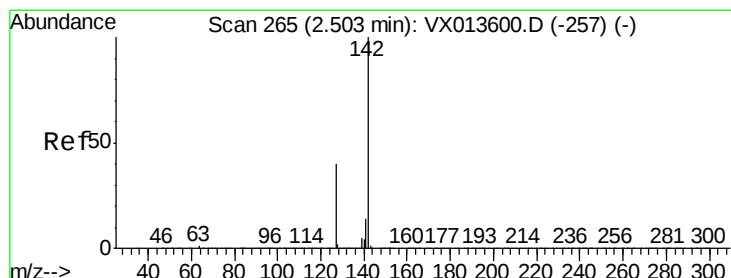
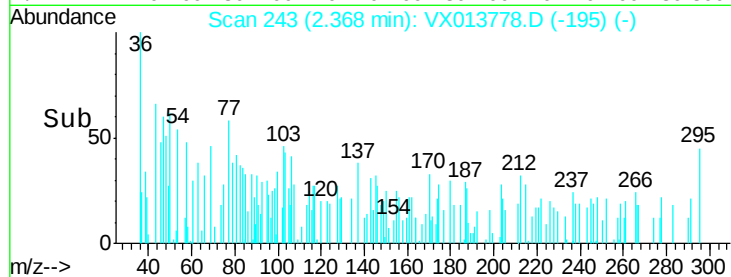
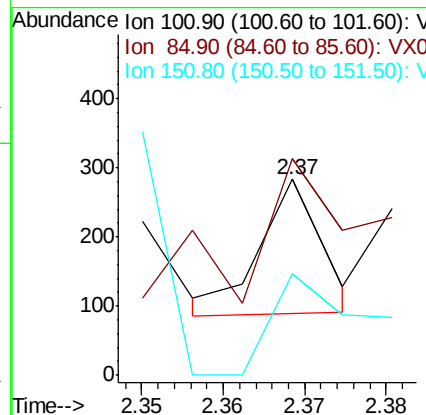
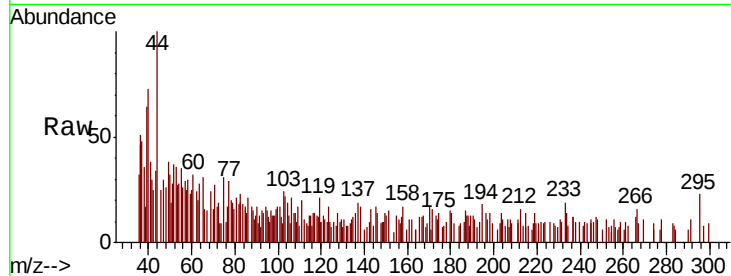
Instrument :

MSVOA_X

ClientSampled :

OF-3

Tot Ion:	101	Resp:	102
Ion	Ratio	Lower	Upper
101	100		
85	306.9	33.9	50.9#
151	0.0	64.2	96.2#



#10

Methyl Iodide

Concen: 6.080 ug/l

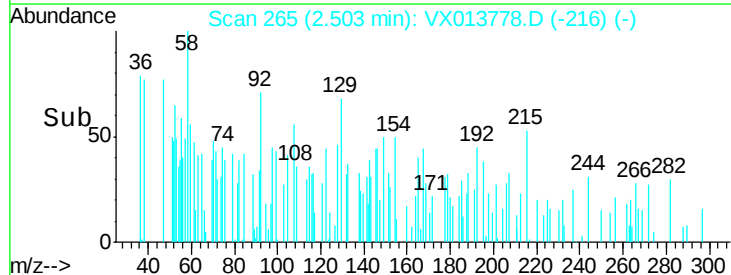
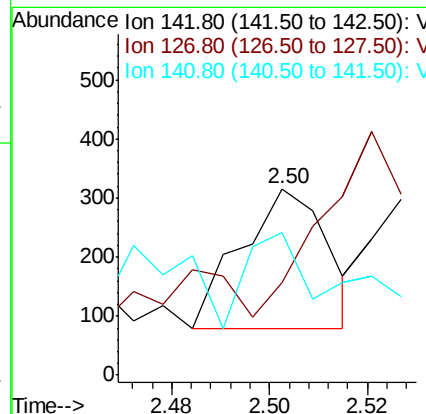
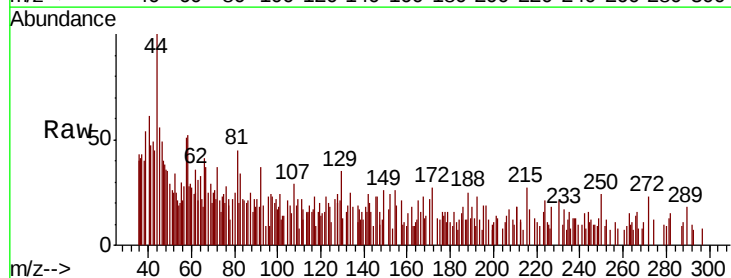
RT: 2.50 min Scan# 265

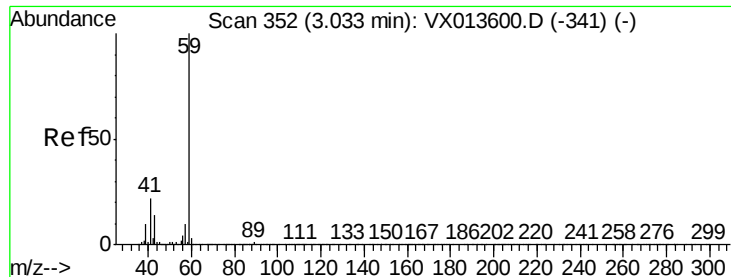
Delta R.T. -0.00 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Tgt Ion:	142	Resp:	290
Ion	Ratio	Lower	Upper
142	100		
127	145.9	31.0	46.4#
141	79.3	11.6	17.4#



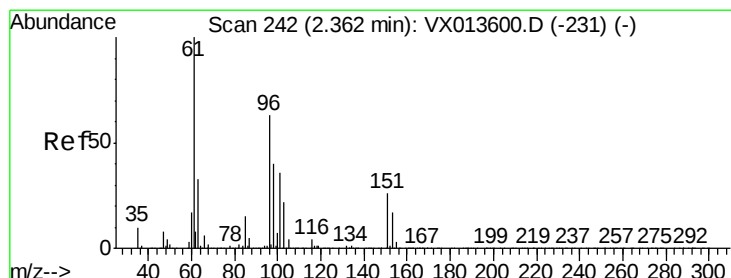
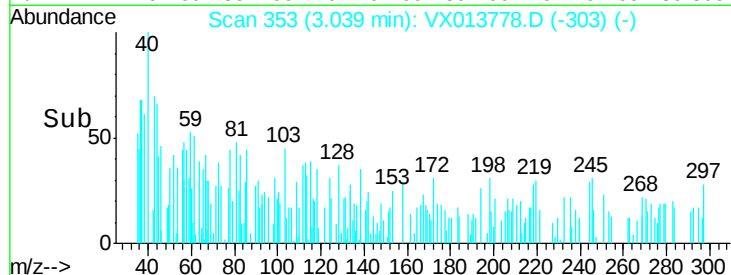
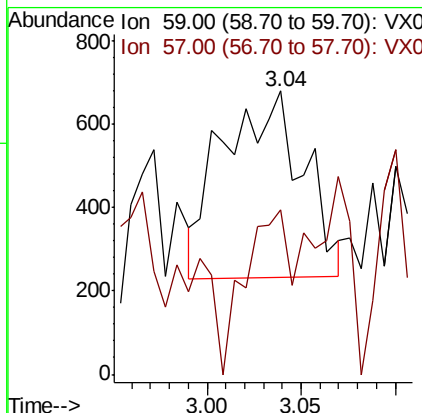
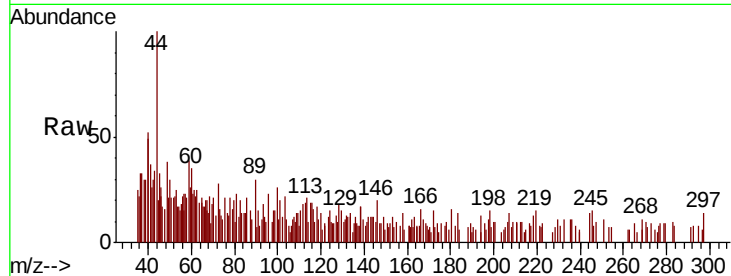


#11

Tert butyl alcohol
 Concen: 111.643 ug/l
 RT: 3.04 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

Instrument :
 MSVOA_X
 ClientSampled :
 OF-3

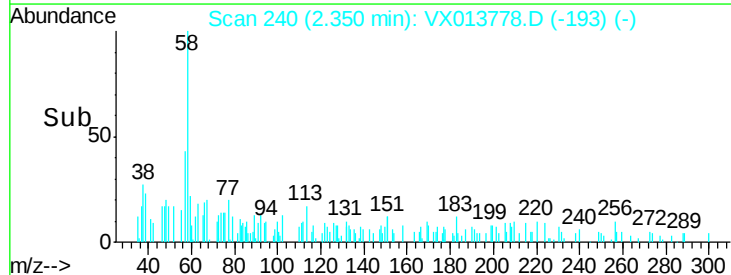
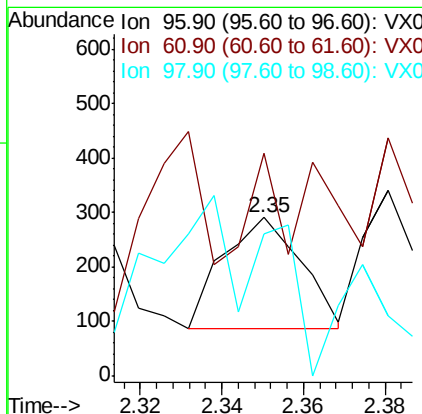
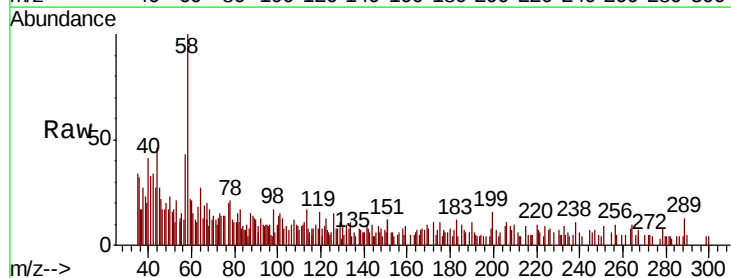
Tot Ion: 59 Resp: 1323
 Ion Ratio Lower Upper
 59 100
 57 48.5 7.8 11.6#

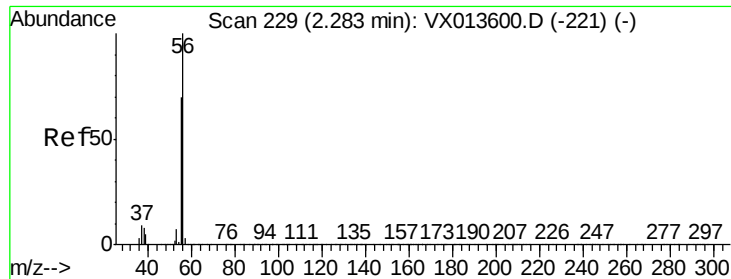


#12

1,1-Dichloroethene
 Concen: 6.936 ug/l
 RT: 2.35 min Scan# 240
 Delta R.T. -0.01 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

Tgt Ion: 96 Resp: 273
 Ion Ratio Lower Upper
 96 100
 61 48.0 126.6 190.0#
 98 64.2 50.6 76.0

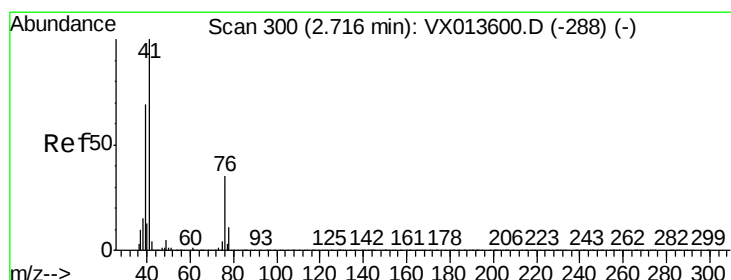
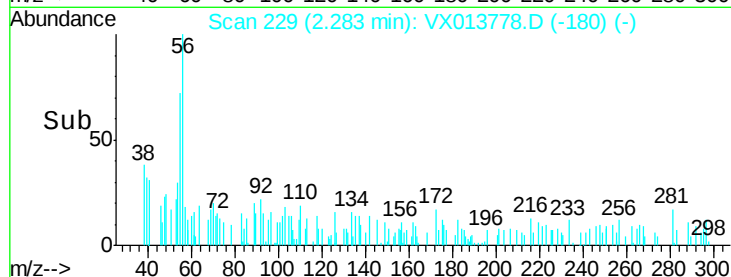
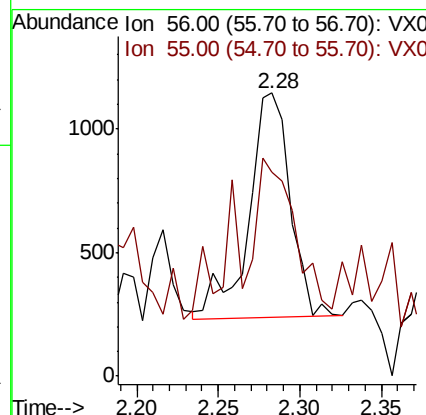
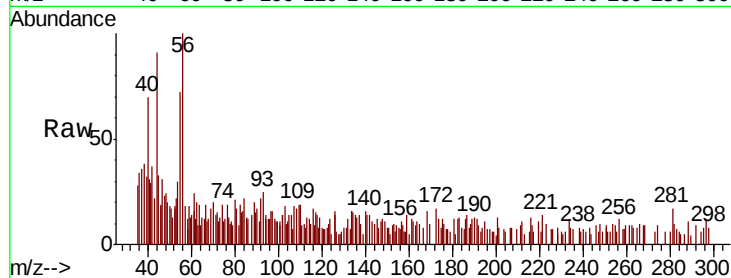




#13
Acrolein
Concen: 201.566 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

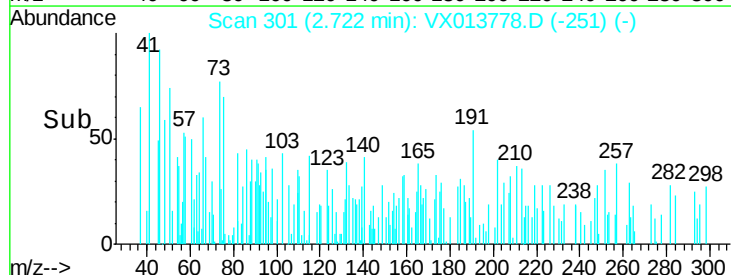
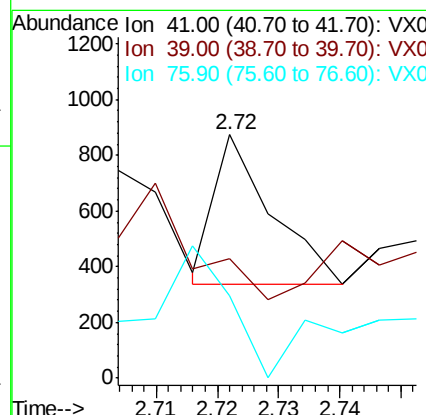
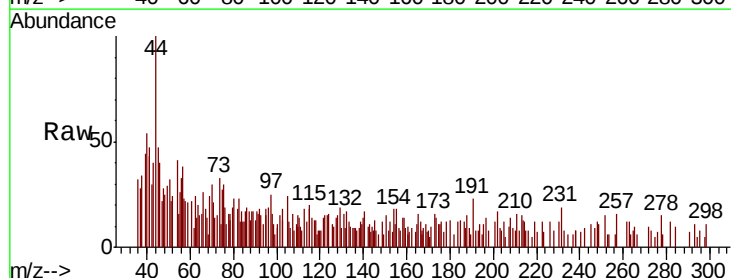
Instrument :
MSVOA_X
ClientSampled :
OF-3

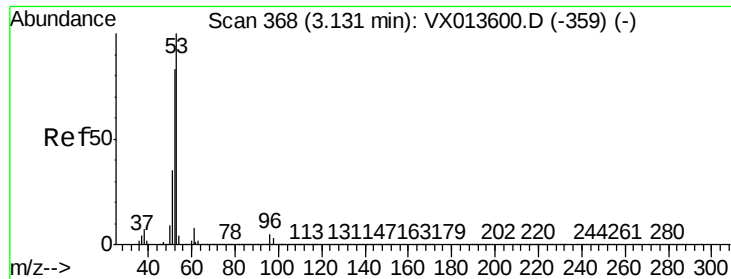
Tot Ion: 56 Resp: 1588
Ion Ratio Lower Upper
56 100
55 61.2 56.2 84.4



#14
Allyl chloride
Concen: 4.844 ug/l
RT: 2.72 min Scan# 301
Delta R.T. 0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion: 41 Resp: 346
Ion Ratio Lower Upper
41 100
39 111.3 51.7 77.5#
76 103.8 25.9 38.9#





#15

Acrylonitrile

Concen: 11.978 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

OF-3

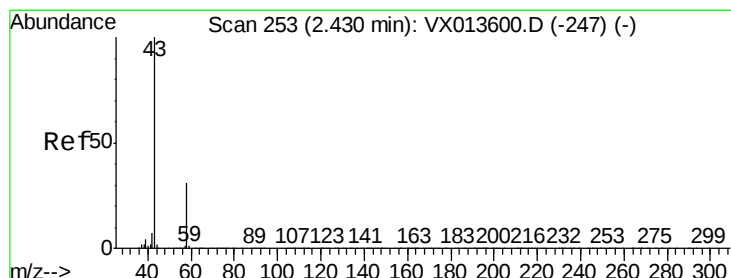
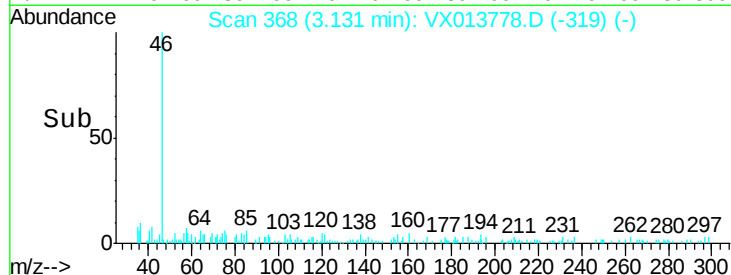
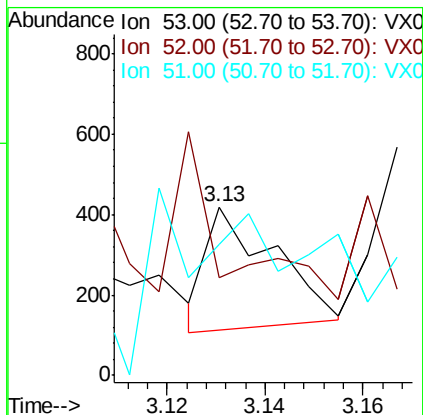
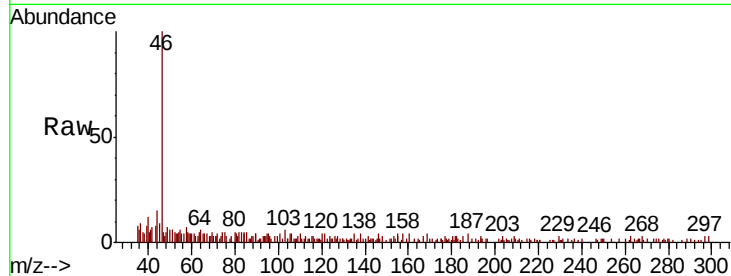
Tot Ion: 53 Resp: 293

Ion Ratio Lower Upper

53 100

52 352.9 66.2 99.2#

51 316.0 29.0 43.6#



#16

Acetone

Concen: 1306.926 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013778.D

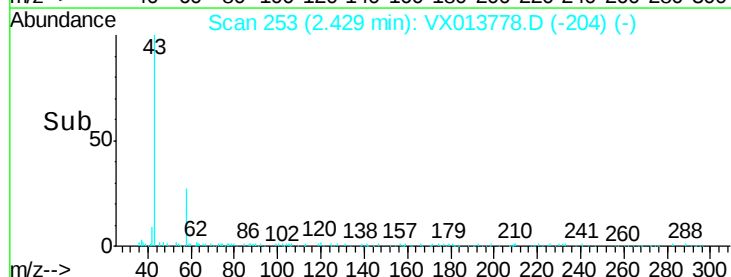
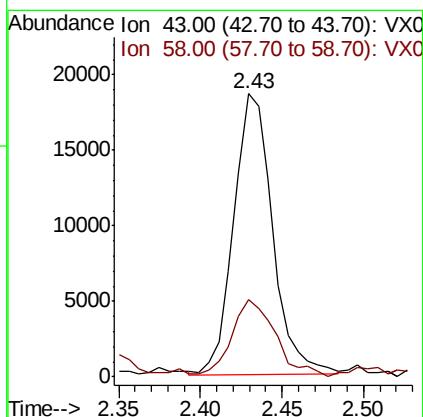
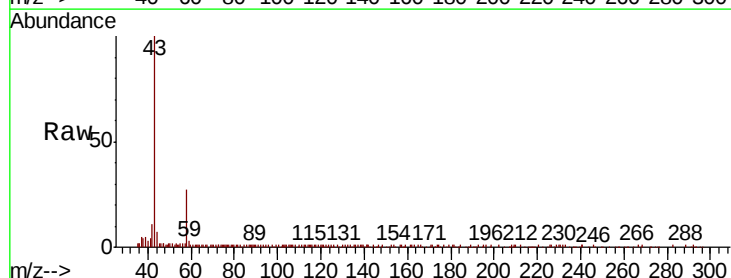
Acq: 05 Dec 2019 15:49

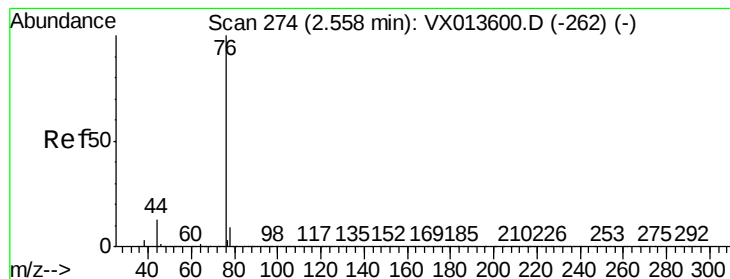
Tgt Ion: 43 Resp: 30978

Ion Ratio Lower Upper

43 100

58 26.8 24.6 36.8





#17

Carbon Disulfide

Concen: 11.318 ug/l

RT: 2.57 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

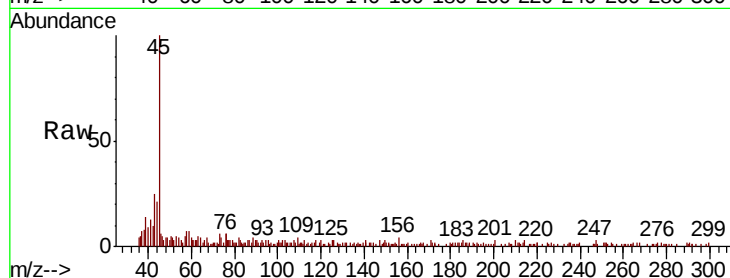
OF-3

Tot Ion: 76 Resp: 1270

Ion Ratio Lower Upper

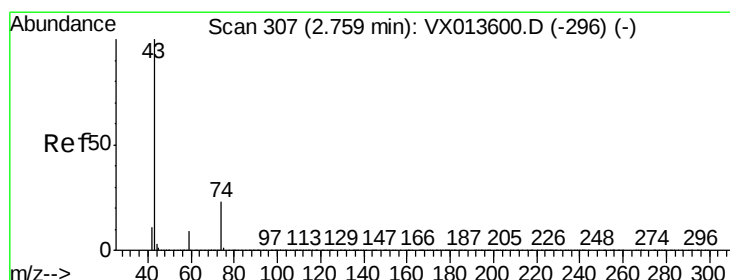
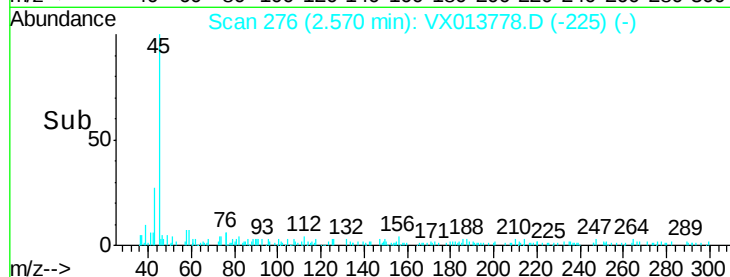
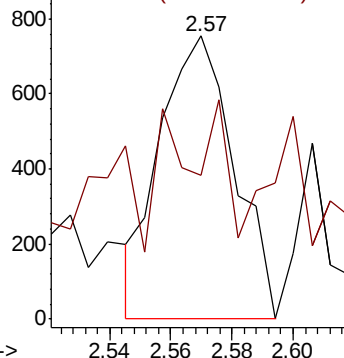
76 100

78 2.8 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 31.332 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.00 min

Lab File: VX013778.D

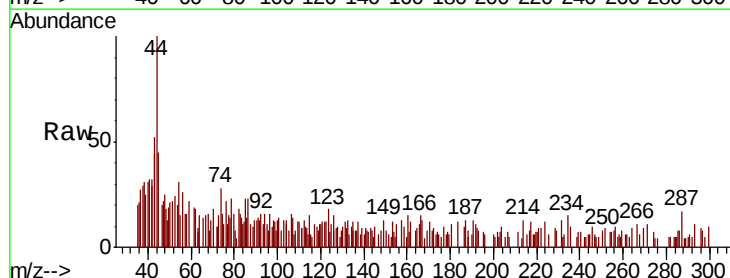
Acq: 05 Dec 2019 15:49

Tgt Ion: 43 Resp: 2068

Ion Ratio Lower Upper

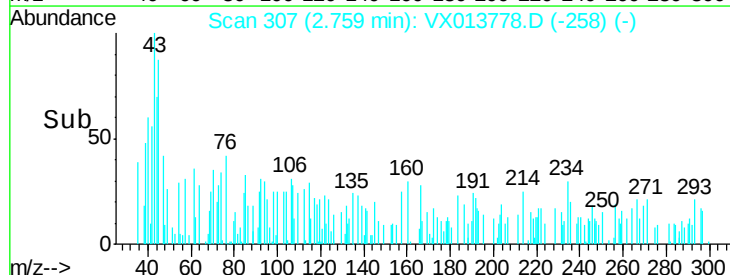
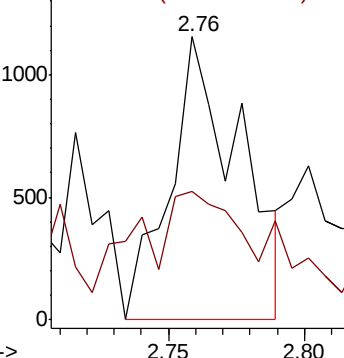
43 100

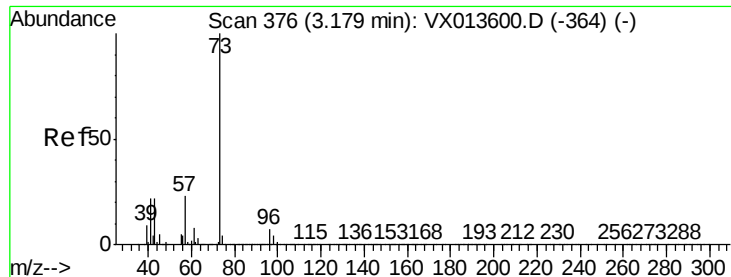
74 47.8 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



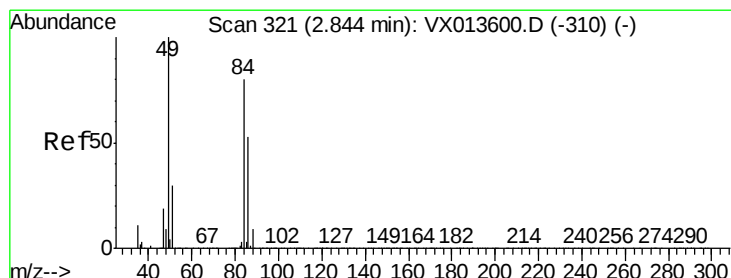
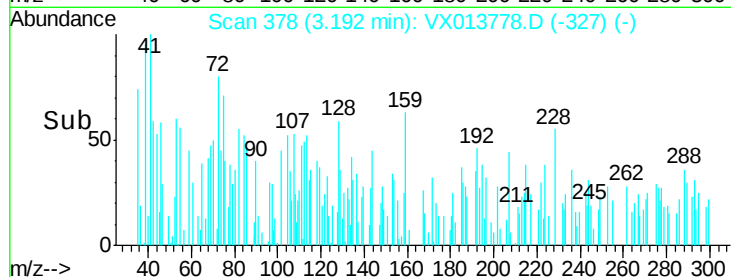
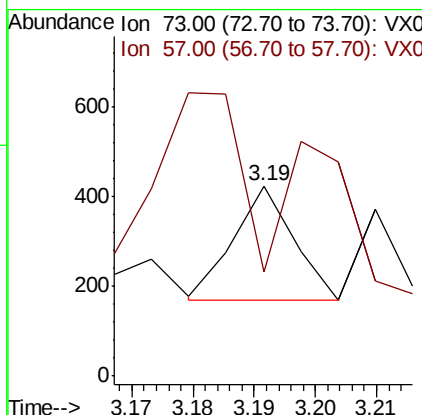
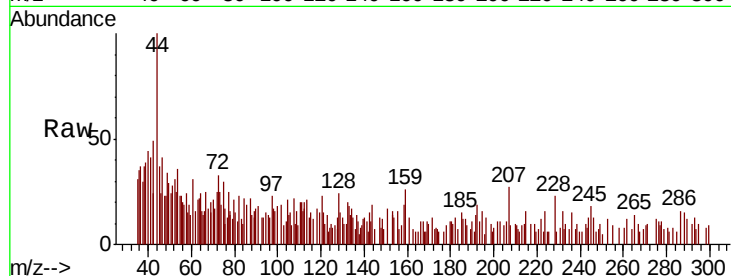


#19

Methyl tert-butyl Ether
Concen: 1.304 ug/l
RT: 3.19 min Scan# 378
Delta R.T. 0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Instrument :
MSVOA_X
ClientSampled :
OF-3

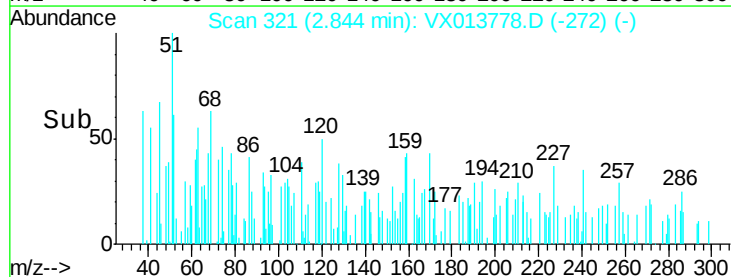
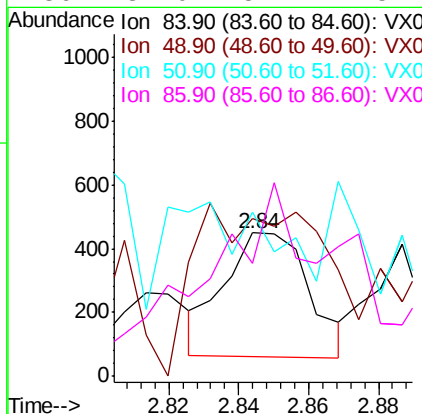
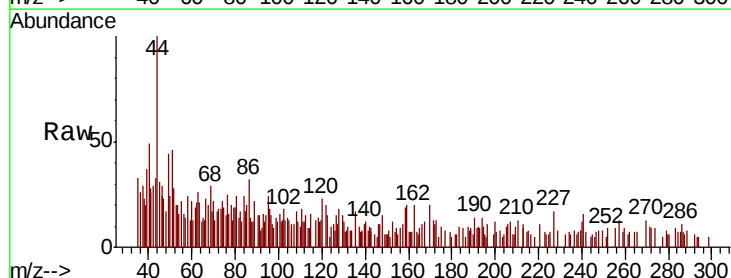
Tot Ion: 73 Resp: 170
Ion Ratio Lower Upper
73 100
57 0.0 18.3 27.5#

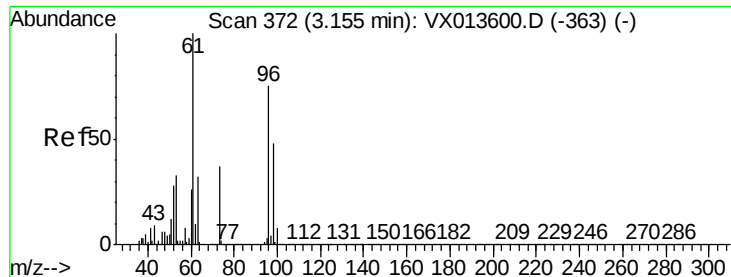


#20

Methylene Chloride
Concen: 14.384 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion: 84 Resp: 655
Ion Ratio Lower Upper
84 100
49 56.9 99.7 149.5#
51 0.0 29.9 44.9#
86 37.0 52.2 78.4#





#21

trans-1,2-Dichloroethene

Concen: 6.063 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

OF-3

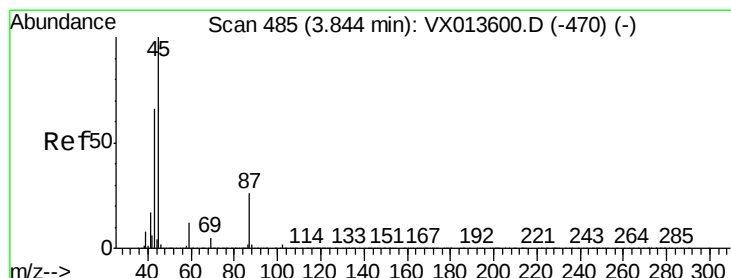
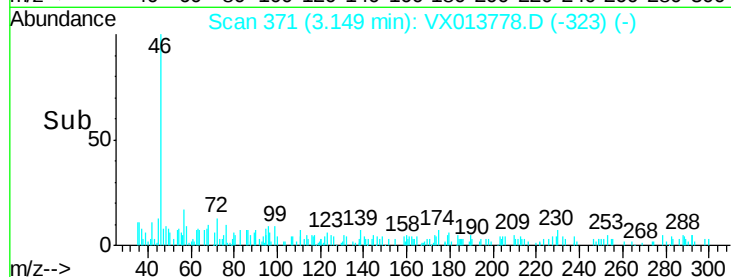
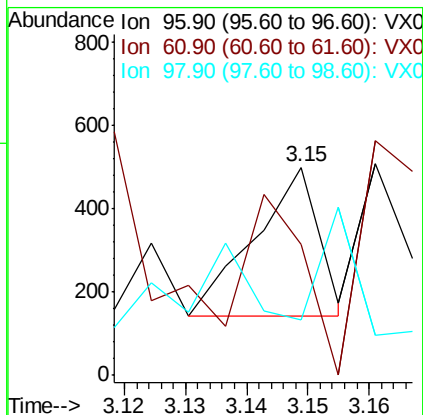
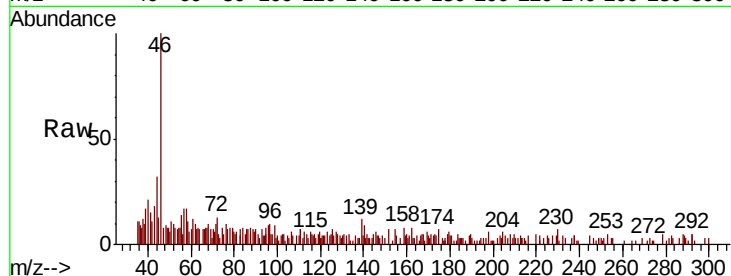
Tot Ion: 96 Resp: 260

Ion Ratio Lower Upper

96 100

61 27.2 107.2 160.8#

98 0.0 51.4 77.0#



#22

Diisopropyl ether

Concen: 3.184 ug/l

RT: 3.81 min Scan# 479

Delta R.T. -0.04 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Tgt Ion: 45 Resp: 438

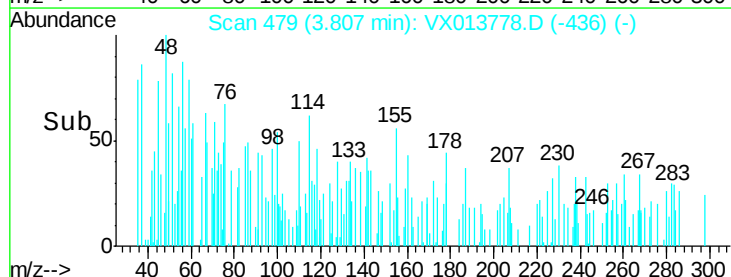
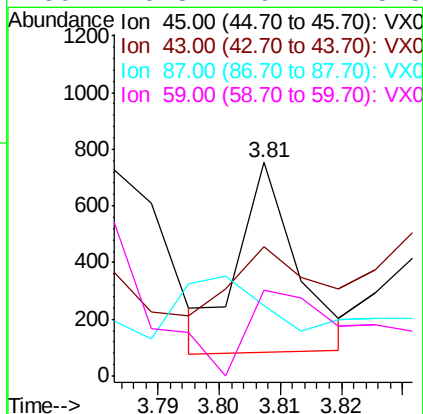
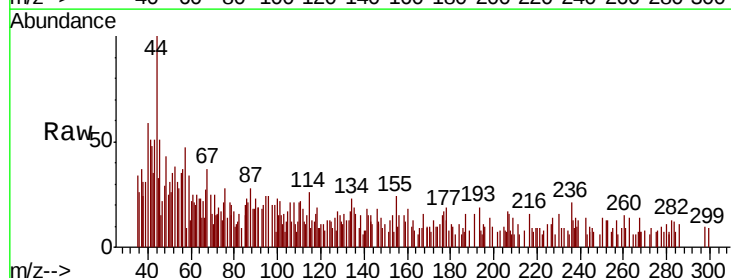
Ion Ratio Lower Upper

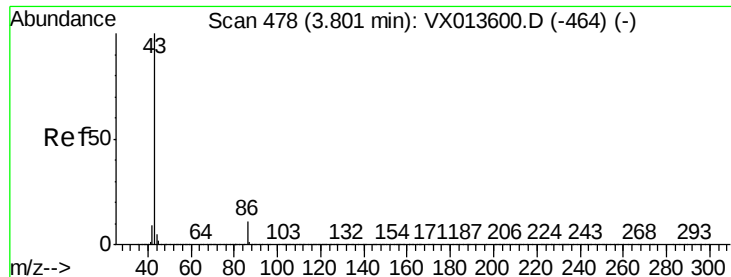
45 100

43 44.4 52.6 79.0#

87 8.7 21.1 31.7#

59 26.8 9.2 13.8#





#23

Vinyl Acetate

Concen: 2.465 ug/l

RT: 3.81 min Scan# 479

Delta R.T. 0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

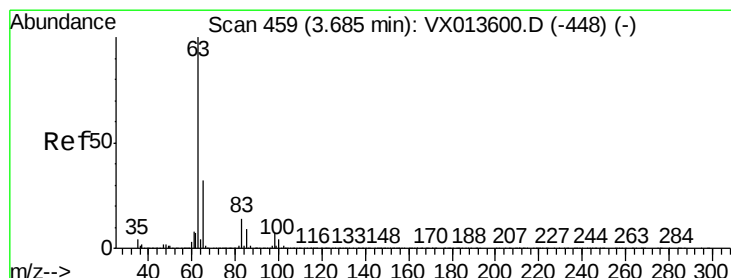
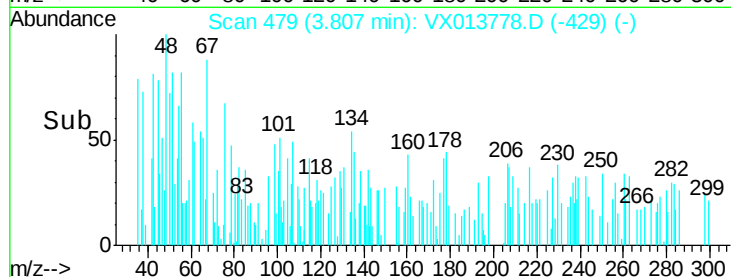
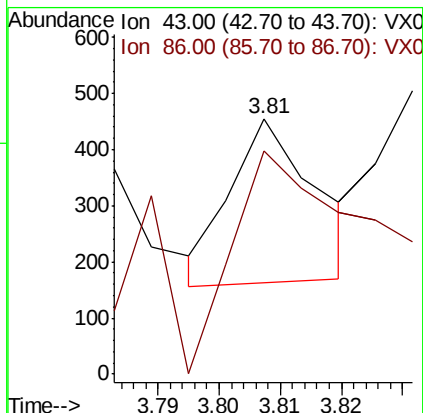
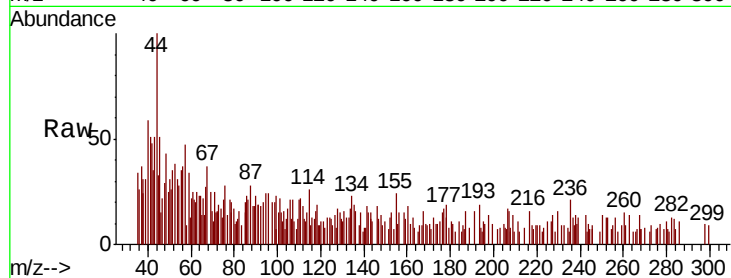
OF-3

Tot Ion: 43 Resp: 282

Ion Ratio Lower Upper

43 100

86 163.1 8.7 13.1#



#24

1,1-Dichloroethane

Concen: 10.999 ug/l

RT: 3.68 min Scan# 458

Delta R.T. -0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

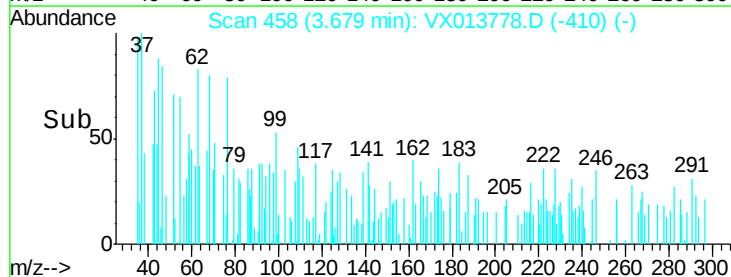
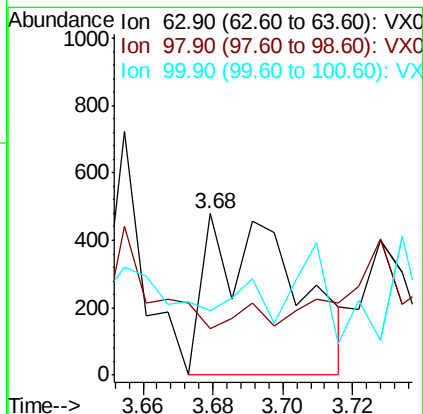
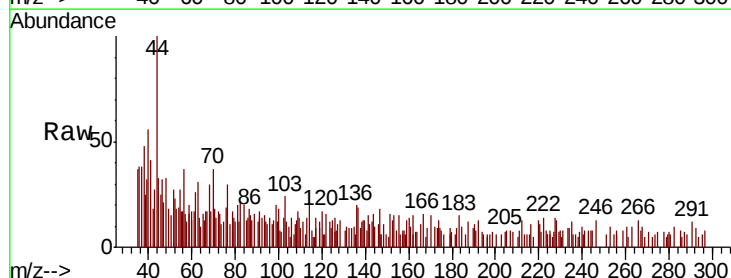
Tgt Ion: 63 Resp: 827

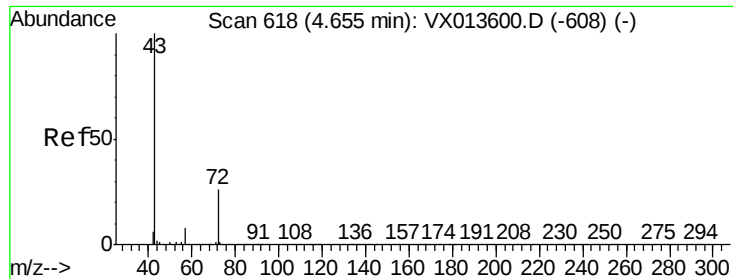
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.1 6.3#

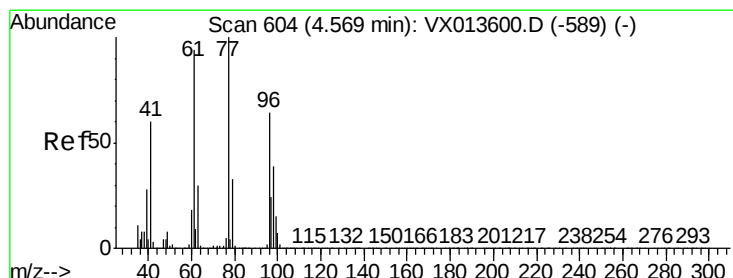
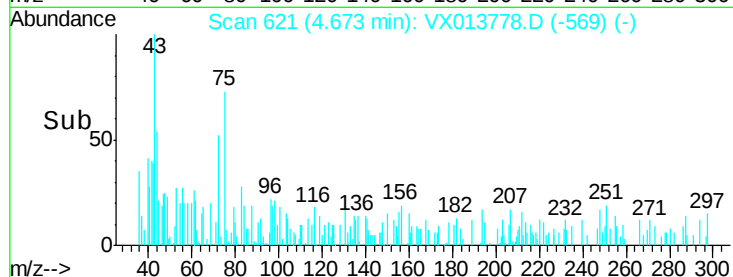
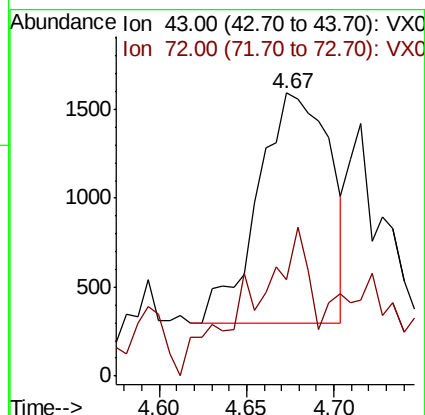
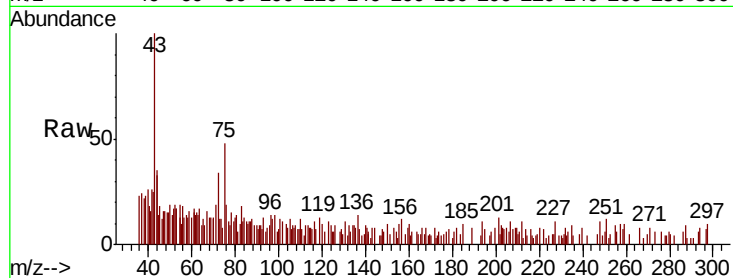




#25
2-Butanone
Concen: 106.055 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

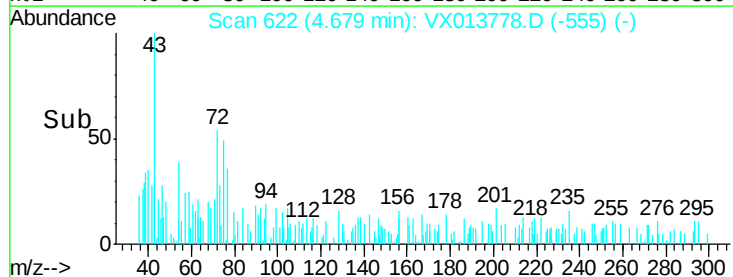
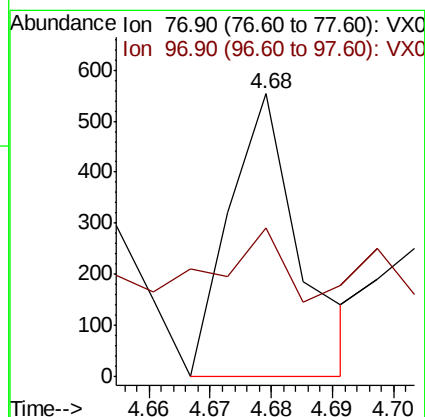
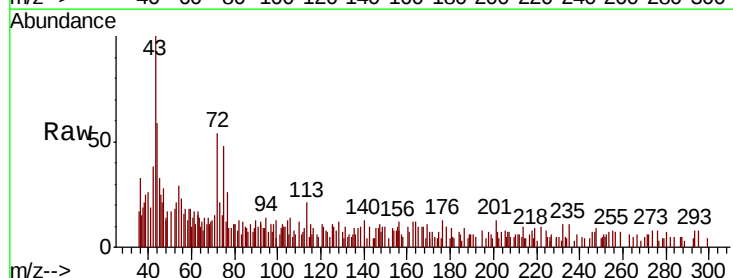
Instrument :
MSVOA_X
ClientSampled :
OF-3

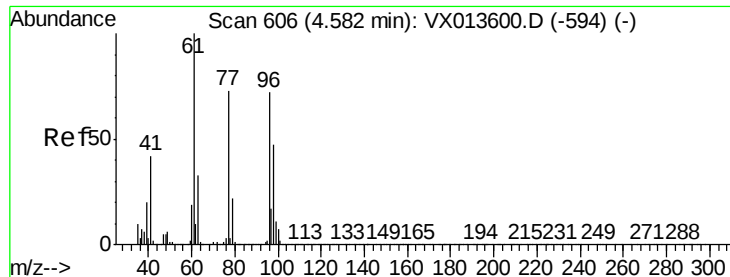
Tot Ion: 43 Resp: 3736
Ion Ratio Lower Upper
43 100
72 10.6 20.6 31.0#



#26
2,2-Dichloropropane
Concen: 7.057 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.11 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion: 77 Resp: 439
Ion Ratio Lower Upper
77 100
97 16.4 12.0 36.1



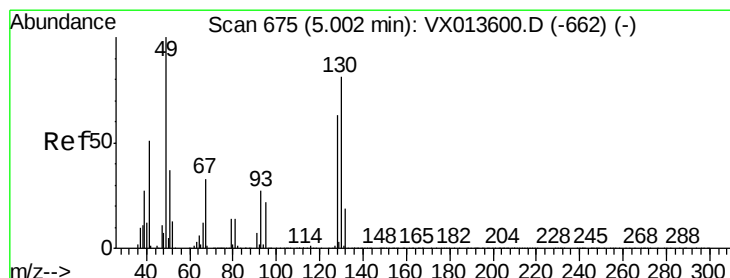
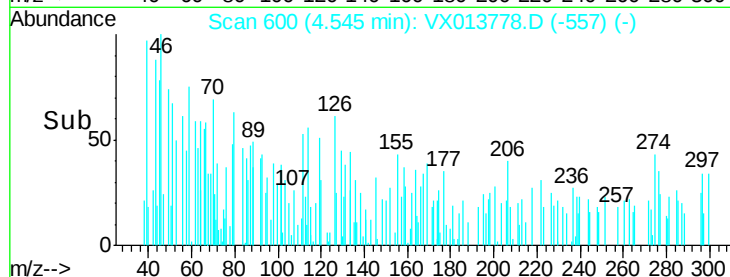
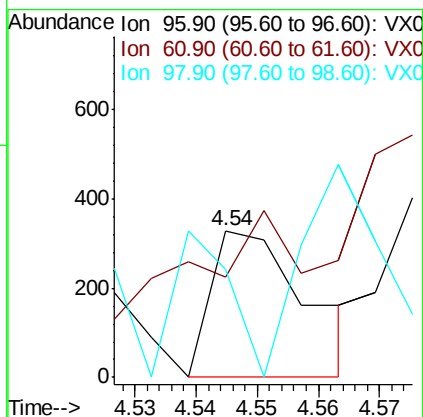
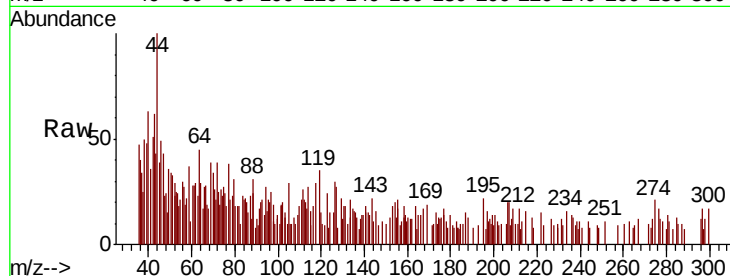


#27

cis-1,2-Dichloroethene
Concen: 7.128 ug/l
RT: 4.54 min Scan# 600
Delta R.T. -0.04 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Instrument :
MSVOA_X
ClientSampled :
OF-3

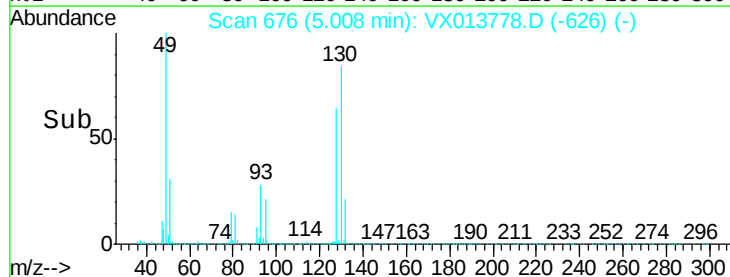
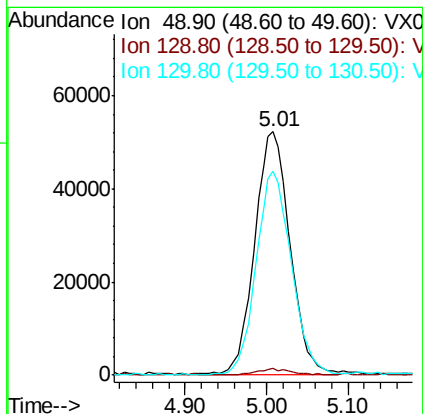
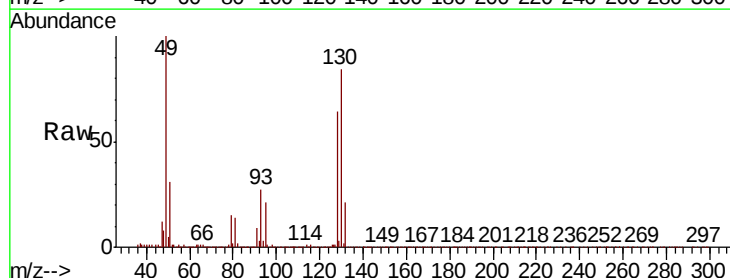
Tot Ion: 96 Resp: 351
Ion Ratio Lower Upper
96 100
61 21.4 0.0 286.4
98 59.3 0.0 127.4

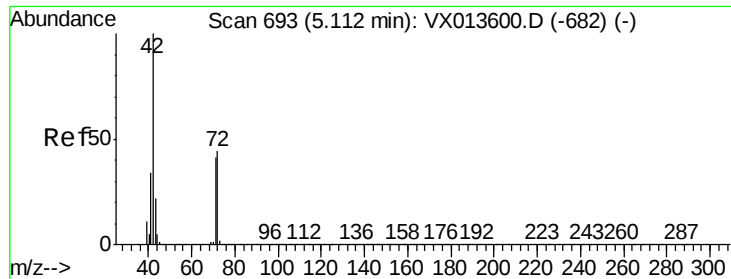


#28

Bromochloromethane
Concen: 5273.064 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion: 49 Resp: 156641
Ion Ratio Lower Upper
49 100
129 2.7 0.0 5.0
130 84.0 65.4 98.0





#29

Tetrahydrofuran

Concen: 29.977 ug/l

RT: 5.10 min Scan# 691

Delta R.T. -0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

OF-3

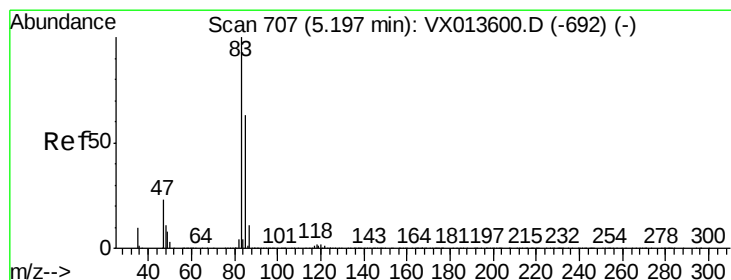
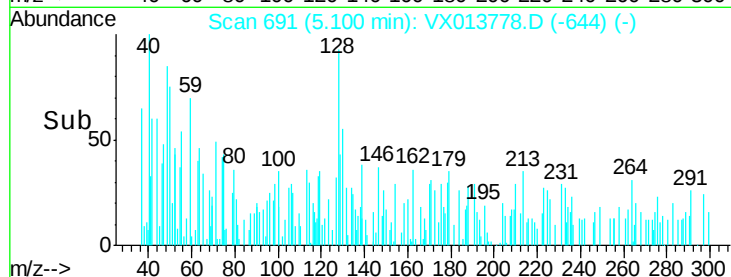
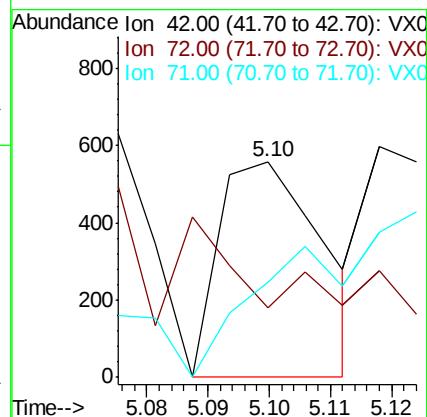
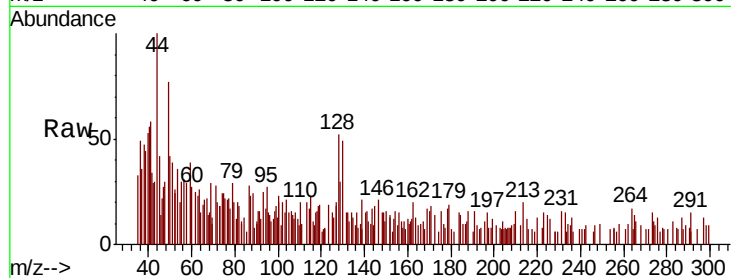
Tot Ion: 42 Resp: 651

Ion Ratio Lower Upper

42 100

72 0.0 36.3 54.5#

71 0.0 33.2 49.8#



#30

Chloroform

Concen: 6.242 ug/l

RT: 4.91 min Scan# 660

Delta R.T. -0.29 min

Lab File: VX013778.D

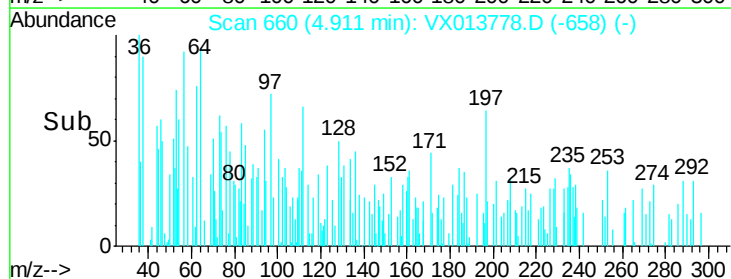
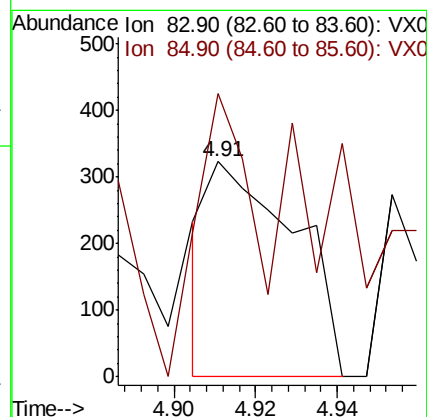
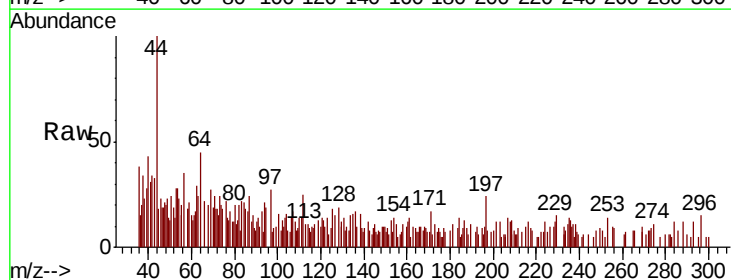
Acq: 05 Dec 2019 15:49

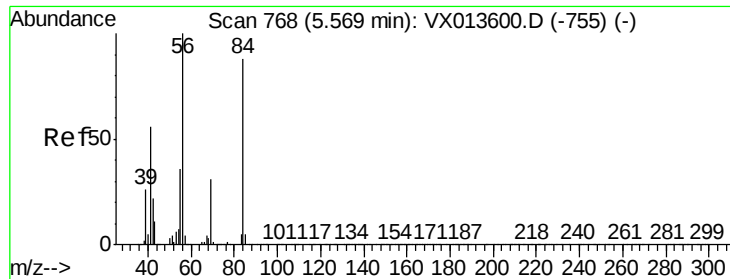
Tgt Ion: 83 Resp: 476

Ion Ratio Lower Upper

83 100

85 64.7 50.2 75.4

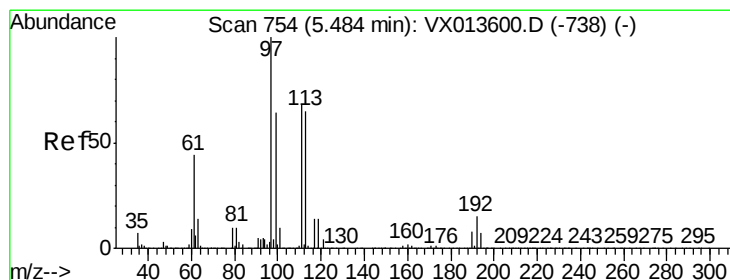
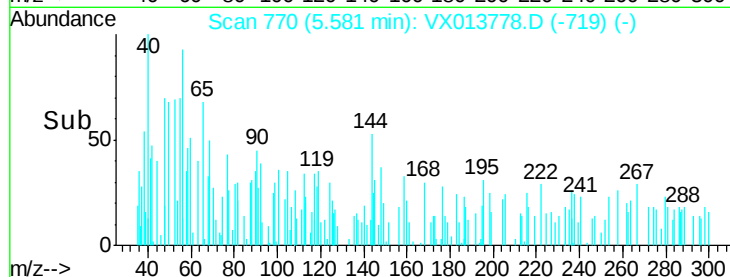
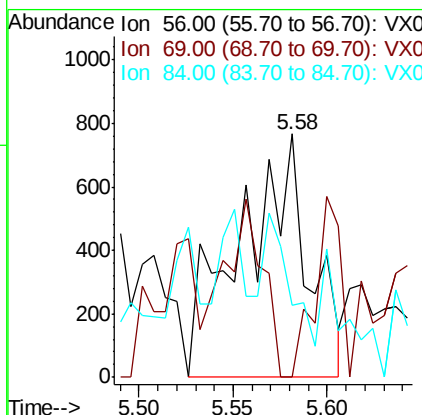
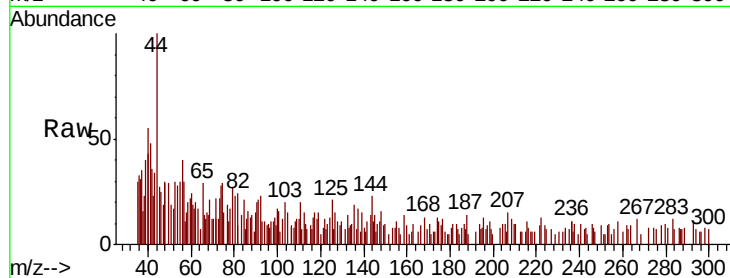




#31
Cyclohexane
Concen: 27.228 ug/l
RT: 5.58 min Scan# 770
Delta R.T. 0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

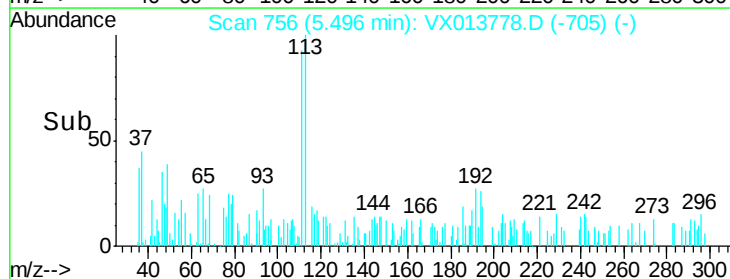
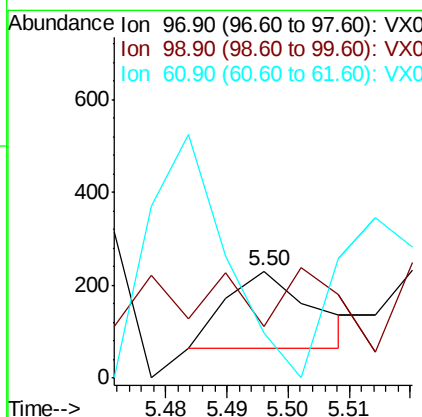
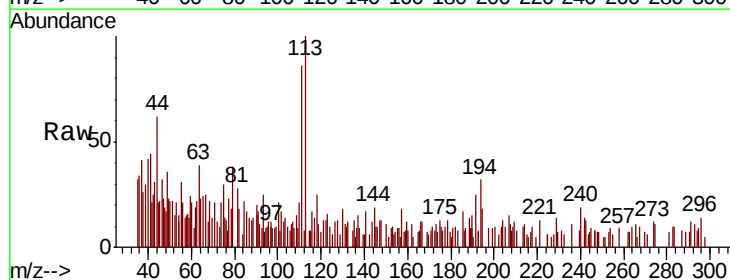
Instrument :
MSVOA_X
Client Sampled :
OF-3

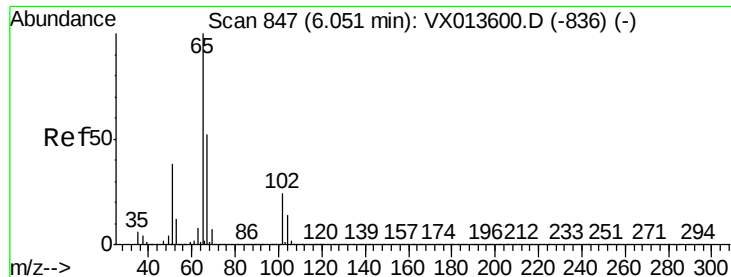
Tot Ion: 56 Resp: 1931
Ion Ratio Lower Upper
56 100
69 0.0 24.6 36.8#
84 0.0 70.0 105.0#



#32
1,1,1-Trichloroethane
Concen: 2.511 ug/l
RT: 5.50 min Scan# 756
Delta R.T. 0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion: 97 Resp: 160
Ion Ratio Lower Upper
97 100
99 0.0 51.6 77.4#
61 286.9 36.1 54.1#





#33

1,2-Dichloroethane-d4

Concen: 4576.941 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

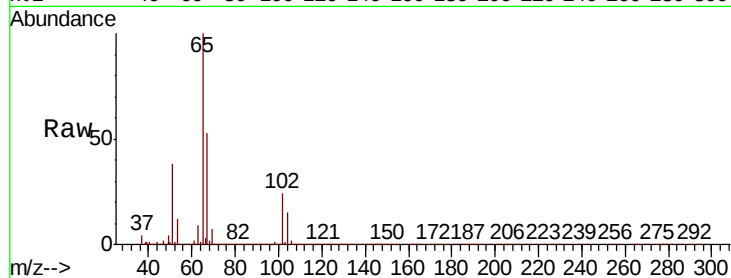
OF-3

Tot Ion: 65 Resp: 219737

Ion Ratio Lower Upper

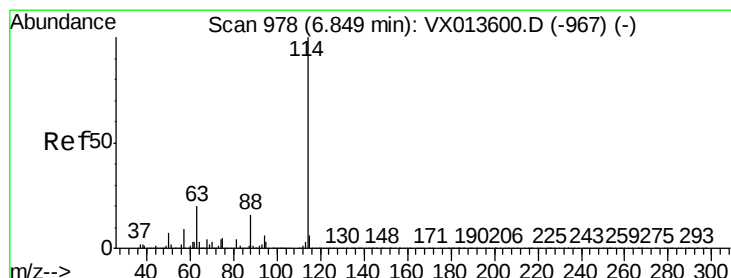
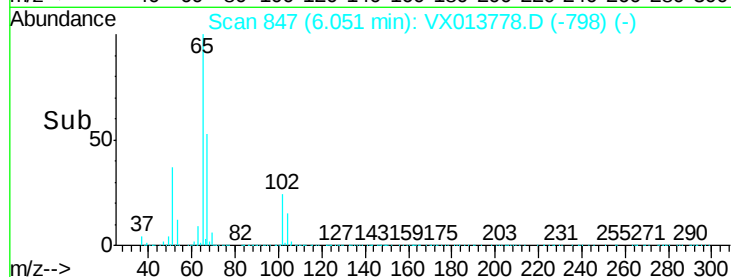
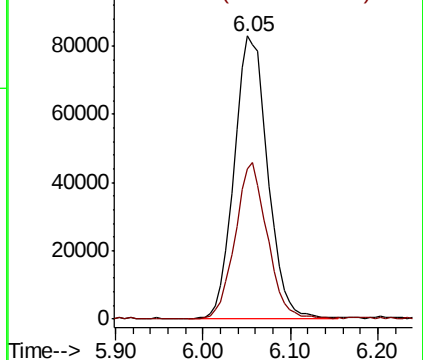
65 100

67 53.7 0.0 104.4



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: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

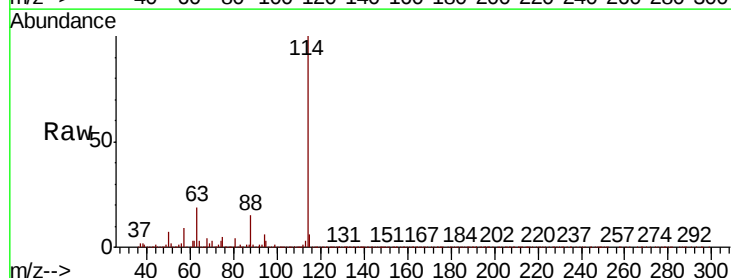
Tgt Ion: 114 Resp: 572992

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.6

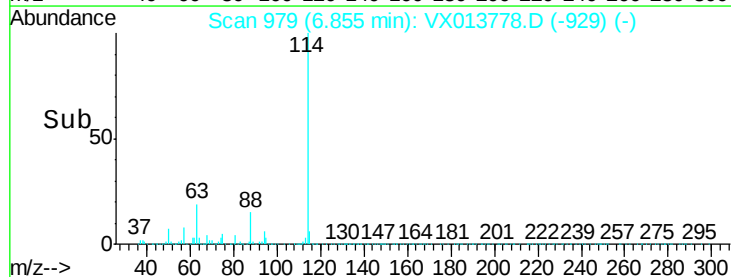
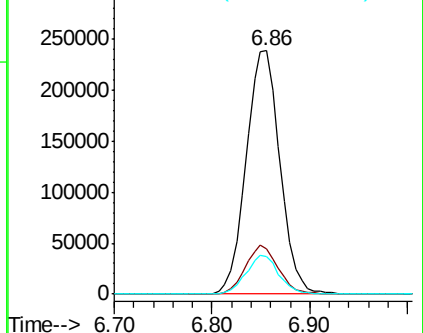
88 15.2 0.0 31.4

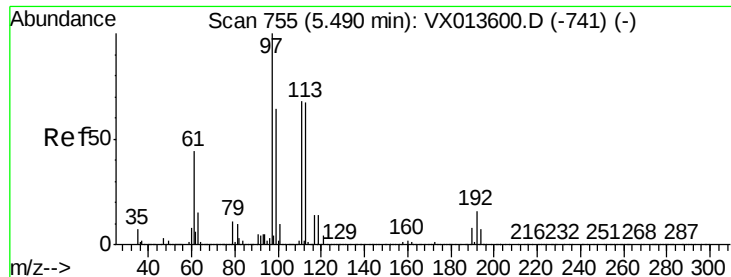


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 0.691 ug/l

RT: 5.50 min Scan# 756

Delta R.T. 0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

OF-3

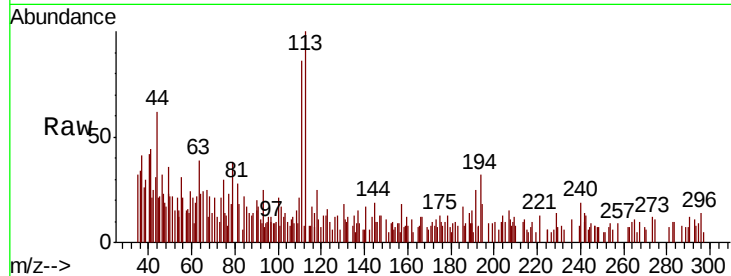
Tot Ion:113 Resp: 2449

Ion Ratio Lower Upper

113 100

111 131.4 83.6 125.4#

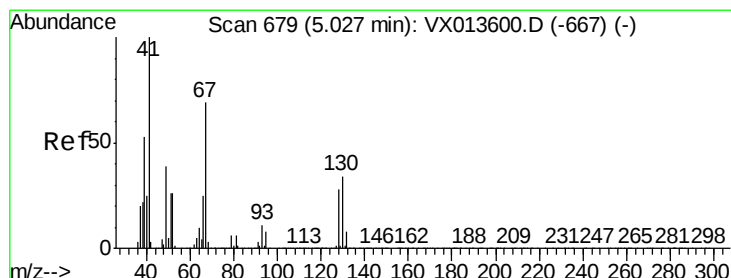
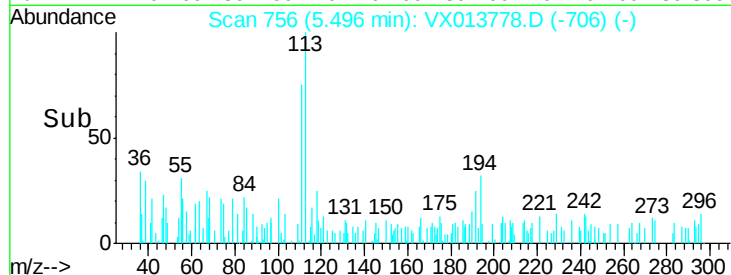
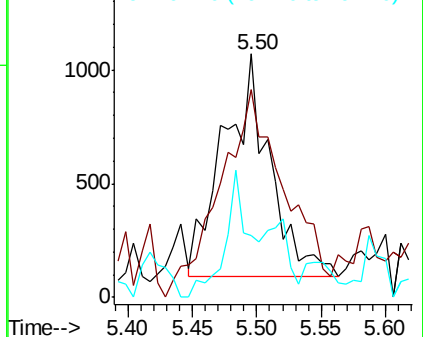
192 29.6 19.2 28.8#



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



#41

Methacrylonitrile

Concen: 0.204 ug/l

RT: 5.03 min Scan# 680

Delta R.T. 0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Tgt Ion: 41 Resp: 652

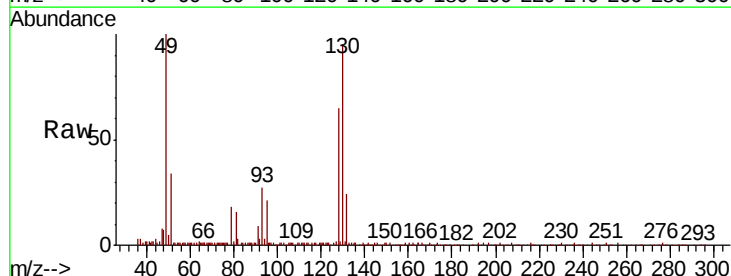
Ion Ratio Lower Upper

41 100

39 97.7 42.9 64.3#

67 0.0 57.4 86.0#

52 0.0 22.4 33.6#

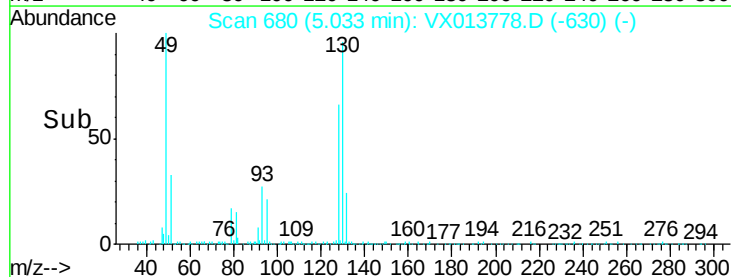
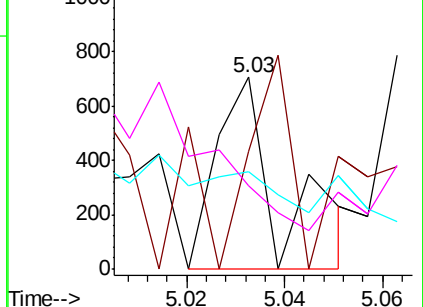


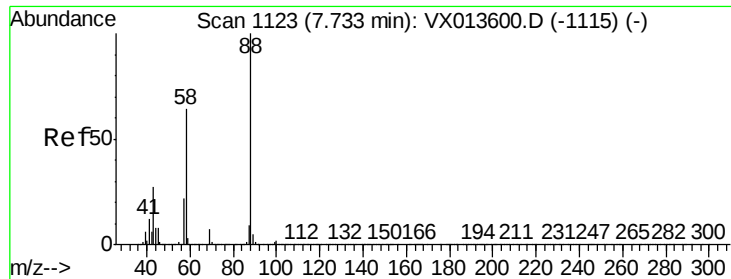
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#49

1,4-Dioxane

Concen: 5.169 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

OF-3

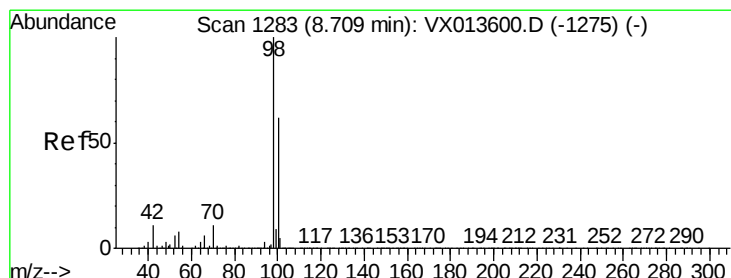
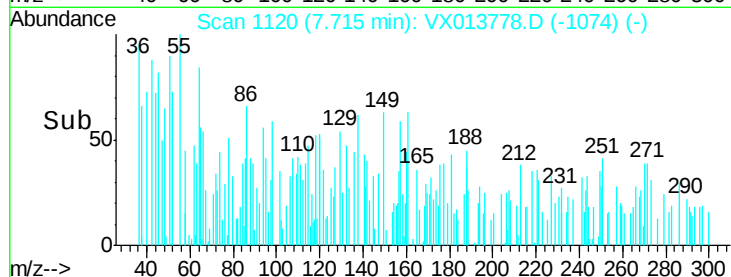
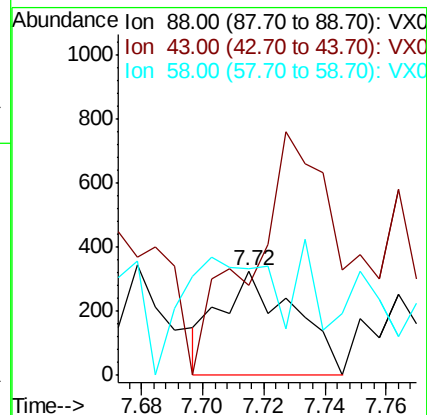
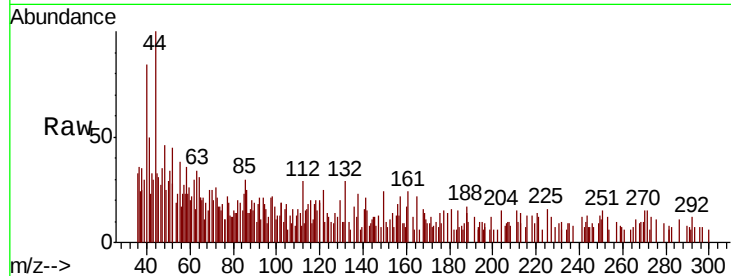
Tot Ion: 88 Resp: 540

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 138.1 54.6 82.0#



#50

Toluene-d8

Concen: 48.953 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013778.D

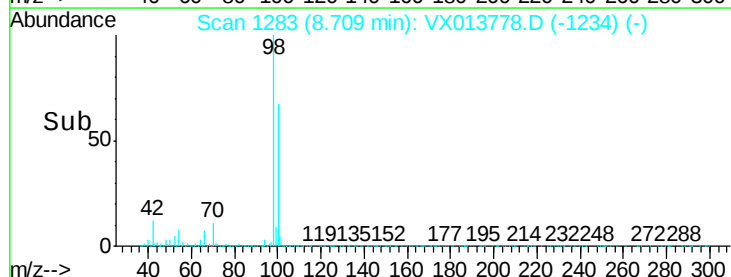
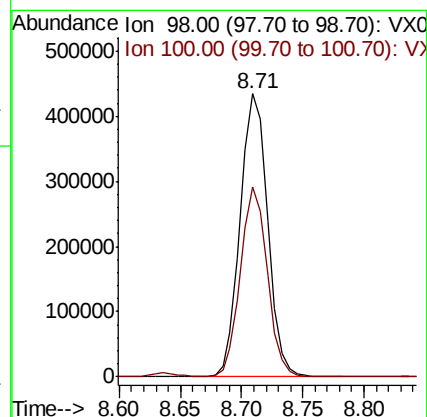
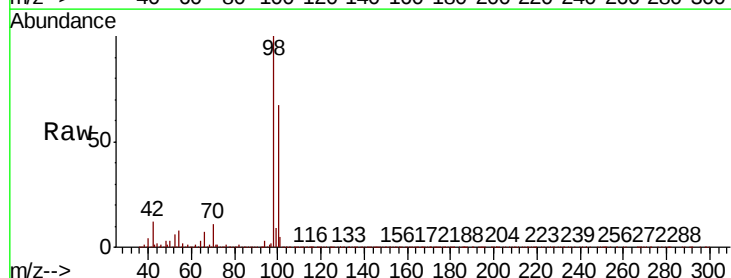
Acq: 05 Dec 2019 15:49

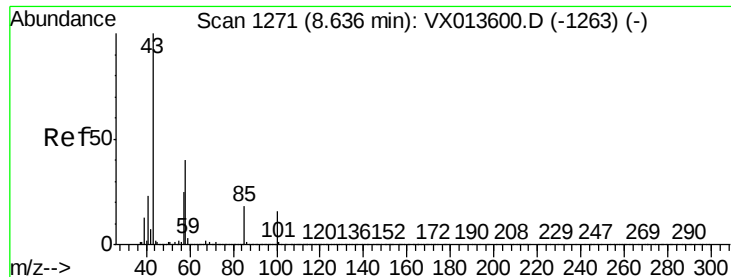
Tgt Ion: 98 Resp: 675611

Ion Ratio Lower Upper

98 100

100 65.3 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 8.850 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

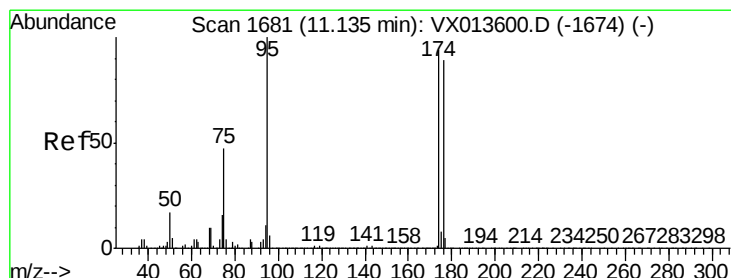
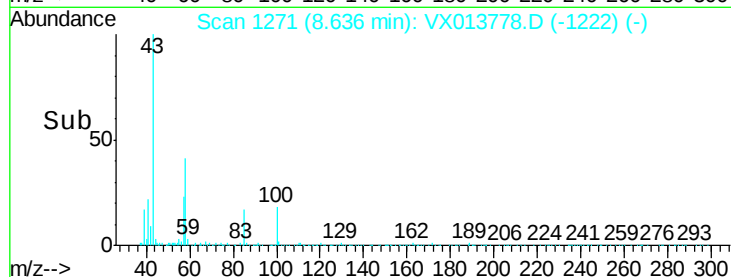
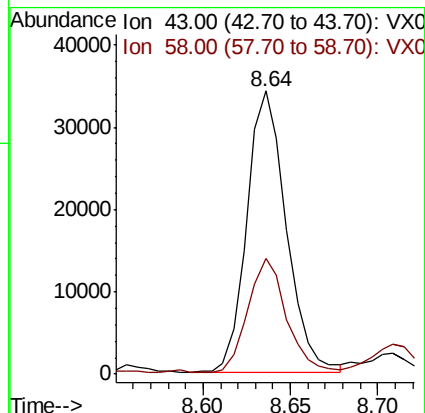
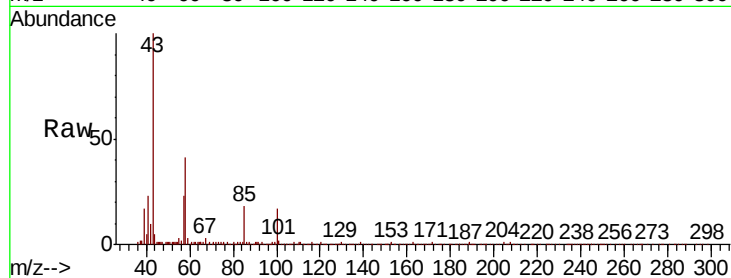
OF-3

Tot Ion: 43 Resp: 53479

Ion Ratio Lower Upper

43 100

58 39.8 32.1 48.1



#62

4-Bromofluorobenzene

Concen: 44.401 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

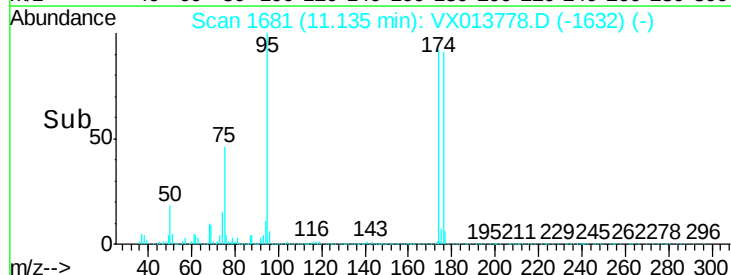
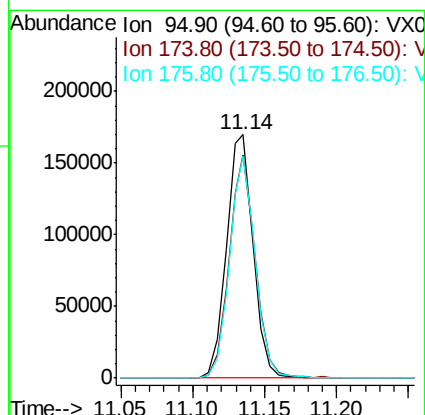
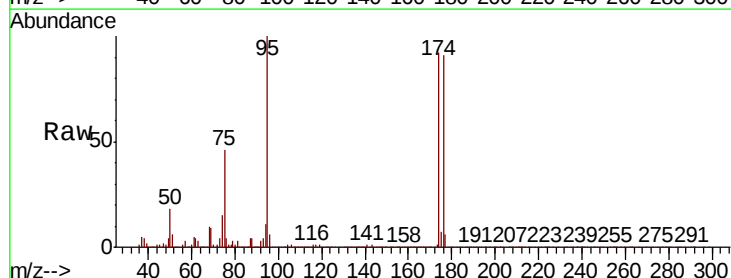
Tgt Ion: 95 Resp: 220974

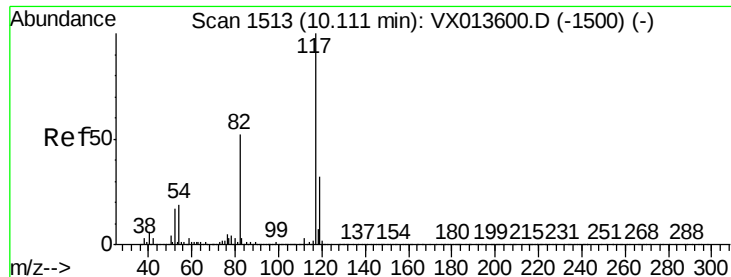
Ion Ratio Lower Upper

95 100

174 89.7 0.0 180.0

176 87.8 0.0 173.6

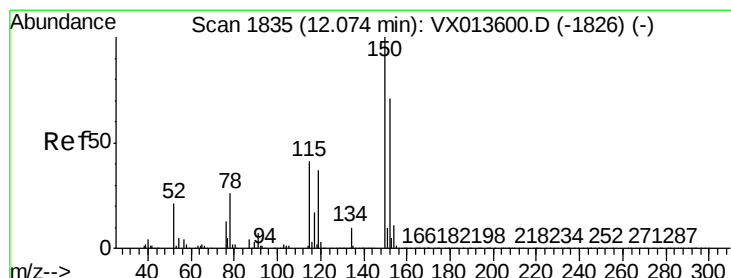
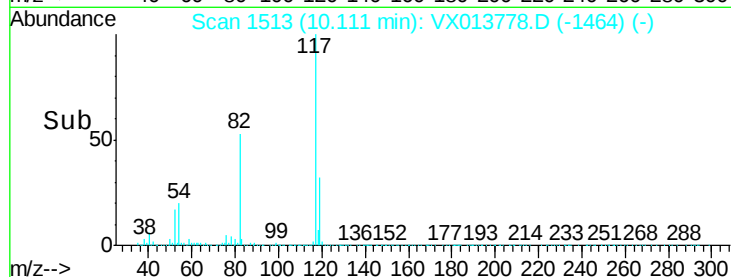
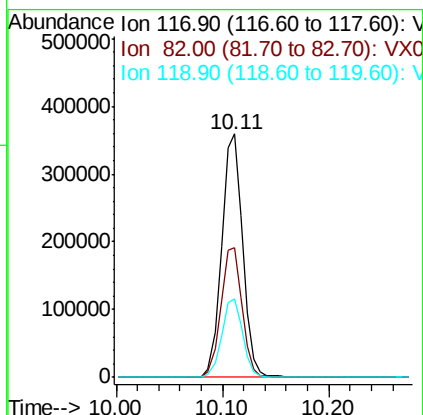
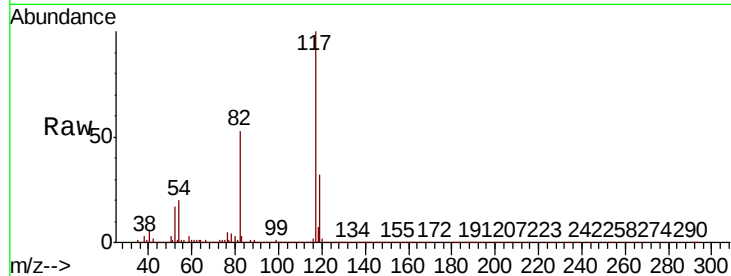




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

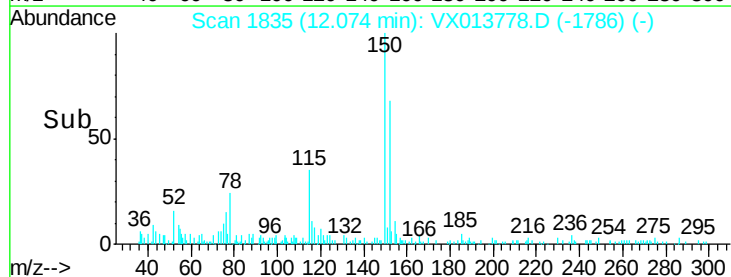
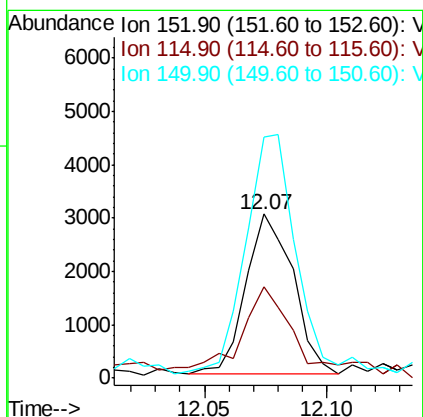
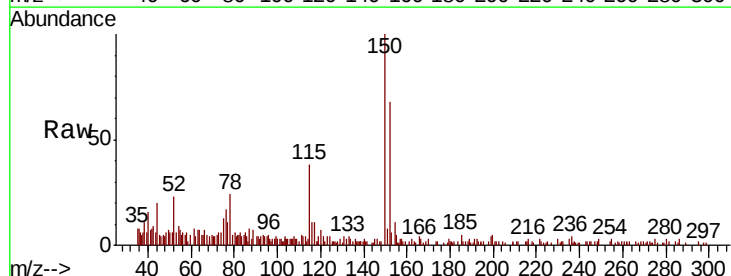
Instrument :
MSVOA_X
ClientSampleId :
OF-3

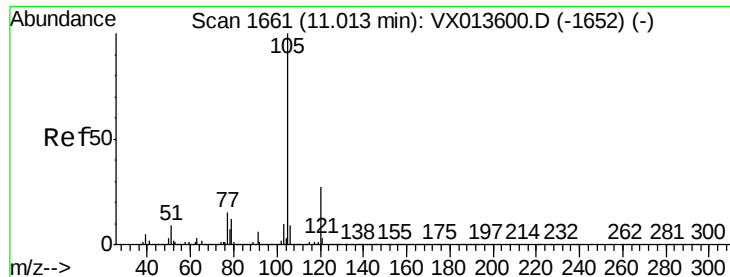
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	41.8	62.8
119	32.4	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	70.9	38.4	115.1
150	166.3	0.0	346.8





#73

Isopropylbenzene

Concen: 1.111 ug/l

RT: 10.97 min Scan# 1654

Delta R.T. -0.04 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

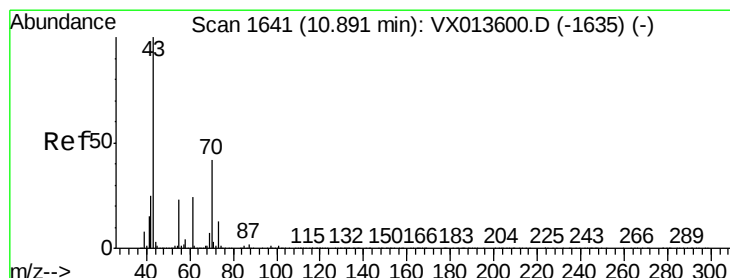
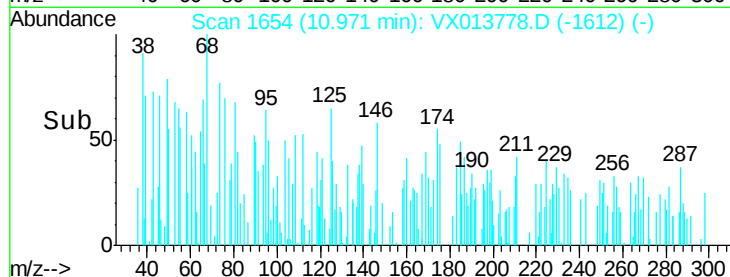
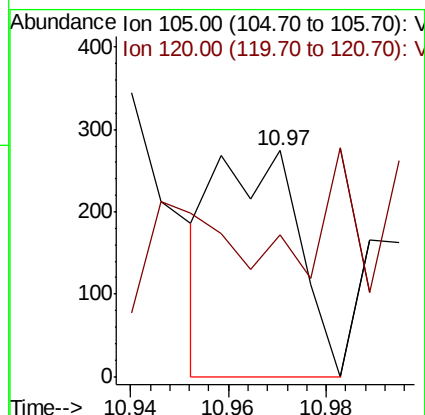
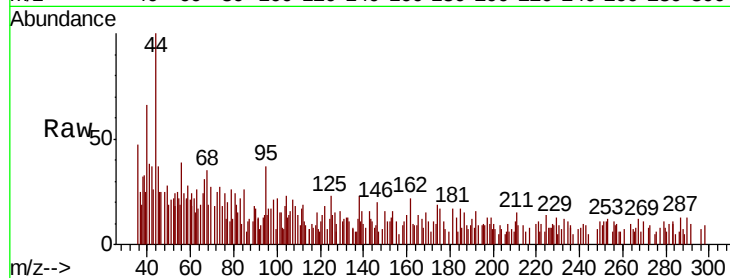
OF-3

Tot Ion:105 Resp: 318

Ion Ratio Lower Upper

105 100

120 36.5 13.5 40.5



#74

N-ethyl acetate

Concen: 13.687 ug/l

RT: 10.91 min Scan# 1644

Delta R.T. 0.02 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Tgt Ion: 43 Resp: 1794

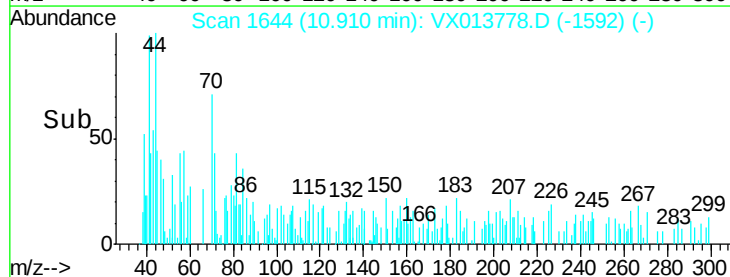
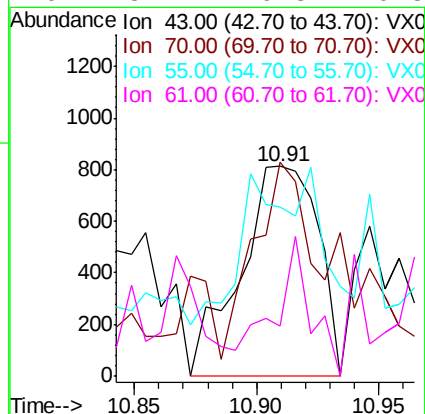
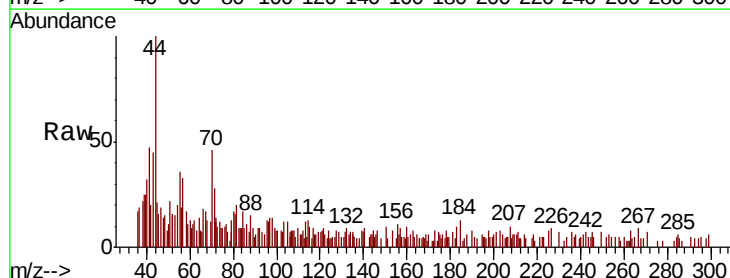
Ion Ratio Lower Upper

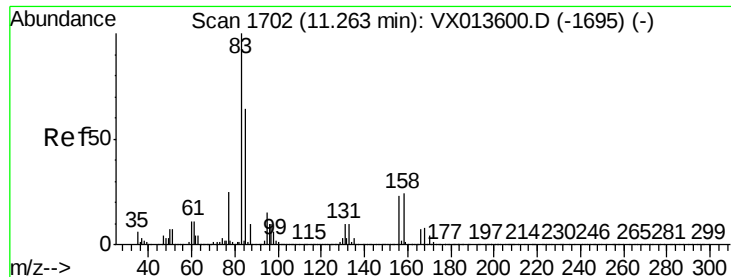
43 100

70 67.5 34.3 51.5#

55 92.5 18.5 27.7#

61 31.7 19.8 29.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 2.066 ug/l

RT: 11.26 min Scan# 1701

Delta R.T. -0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

OF-3

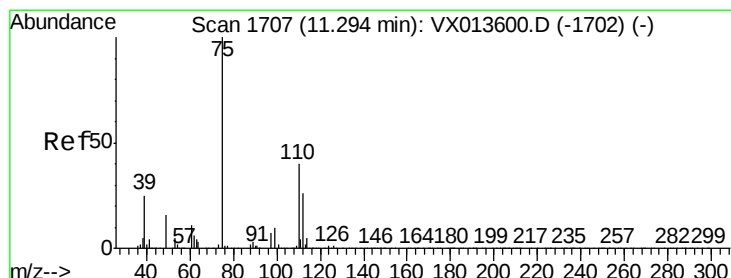
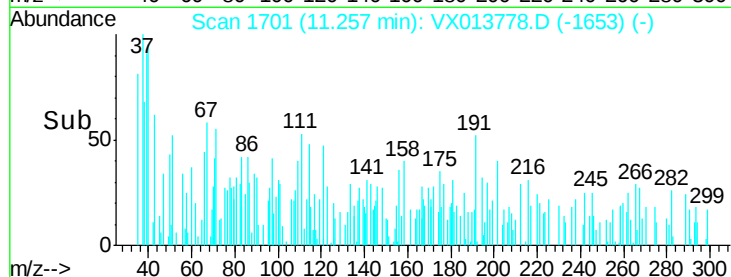
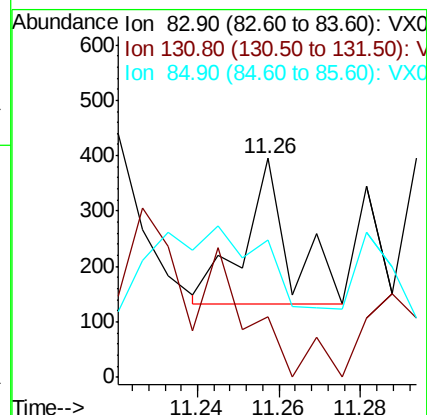
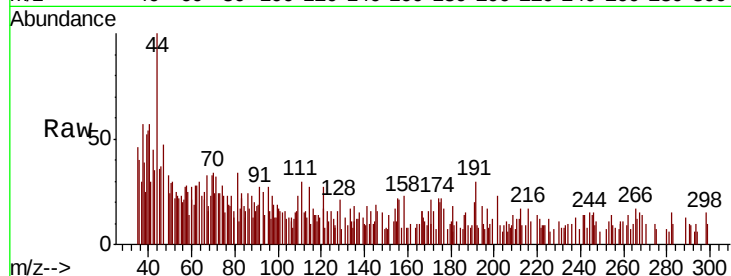
Tot Ion: 83 Resp: 205

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 133.2 31.8 95.3#



#76

1,2,3-Trichloropropane

Concen: 1147.684 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013778.D

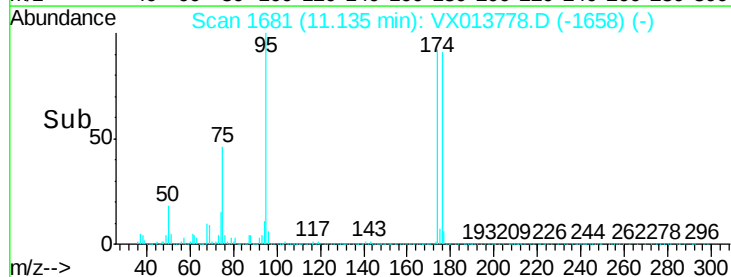
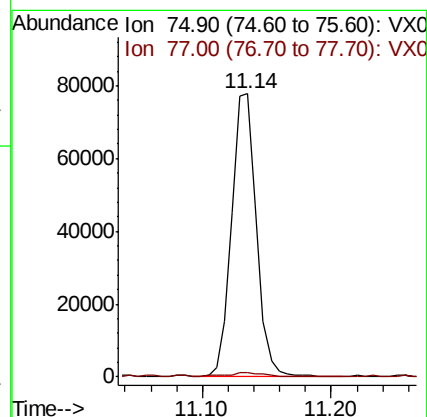
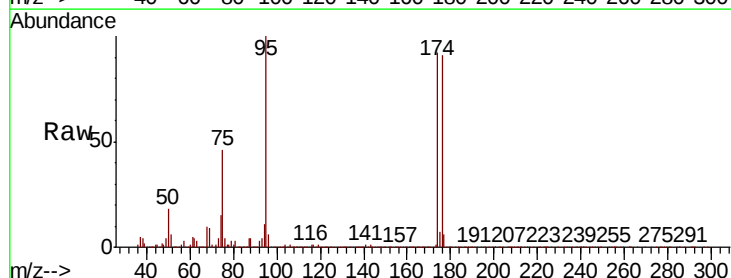
Acq: 05 Dec 2019 15:49

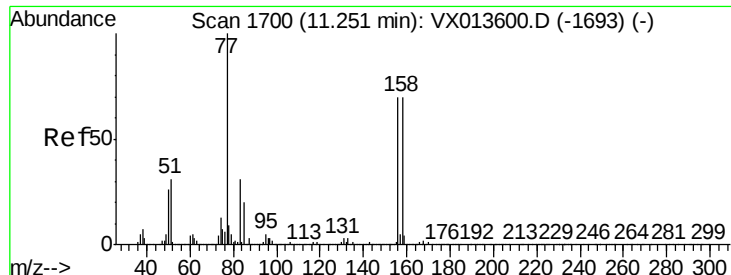
Tgt Ion: 75 Resp: 105293

Ion Ratio Lower Upper

75 100

77 1.8 19.1 57.5#





#77

Bromobenzene

Concen: 2.794 ug/l

RT: 11.45 min Scan# 1732

Delta R.T. 0.20 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

OF-3

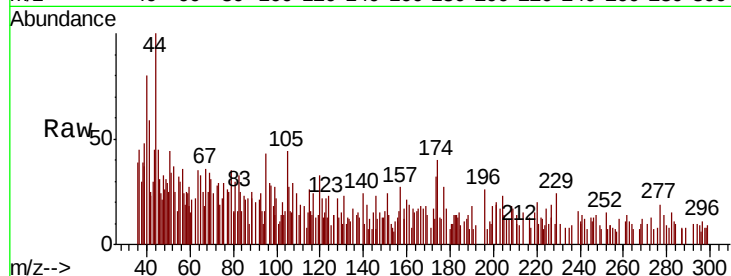
Tot Ion:156 Resp: 216

Ion Ratio Lower Upper

156 100

77 134.7 74.4 223.1

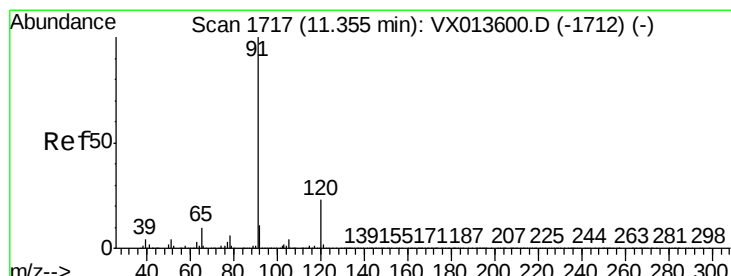
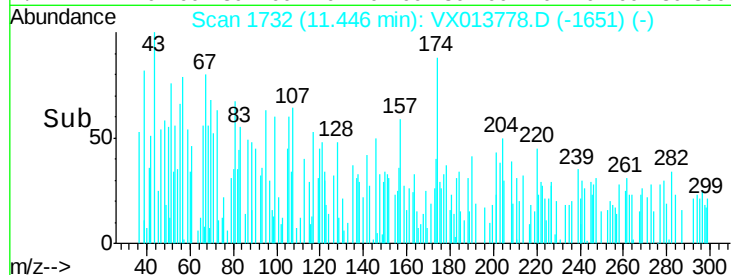
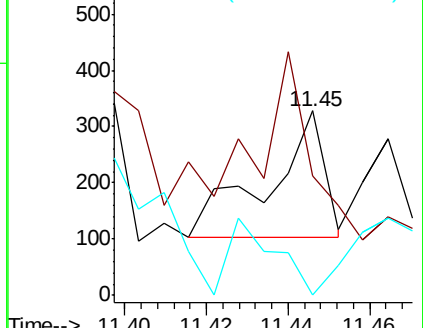
158 49.1 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1.212 ug/l

RT: 11.28 min Scan# 1704

Delta R.T. -0.08 min

Lab File: VX013778.D

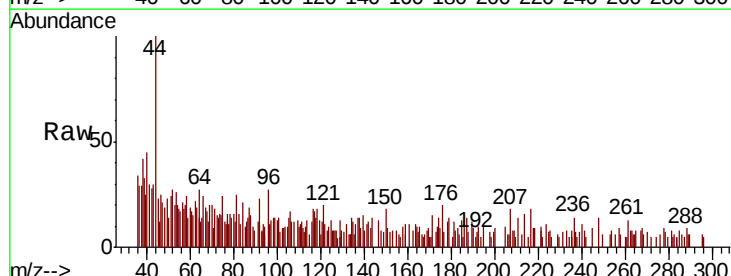
Acq: 05 Dec 2019 15:49

Tgt Ion: 91 Resp: 387

Ion Ratio Lower Upper

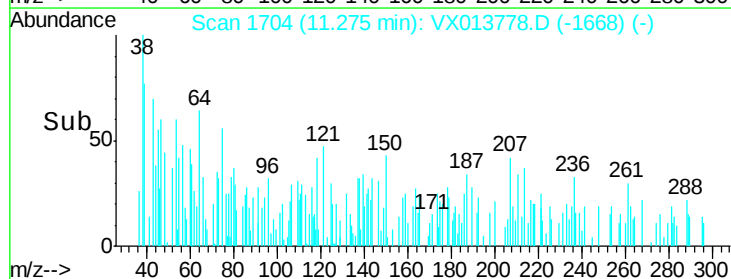
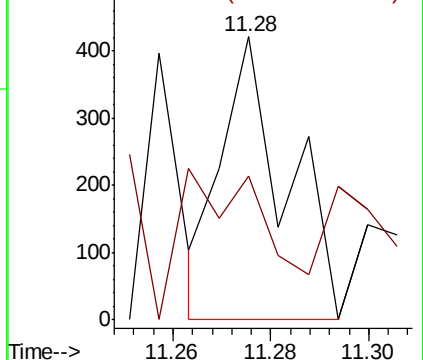
91 100

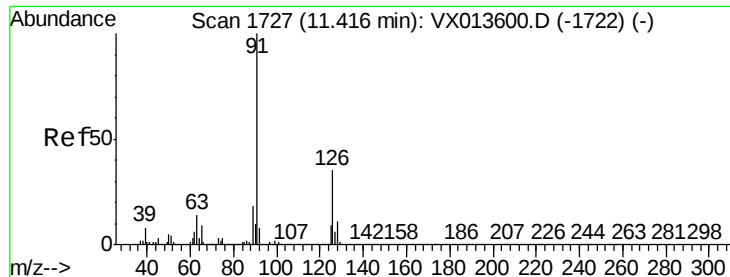
120 29.7 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 3.982 ug/l

RT: 11.42 min Scan# 1728

Delta R.T. 0.01 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

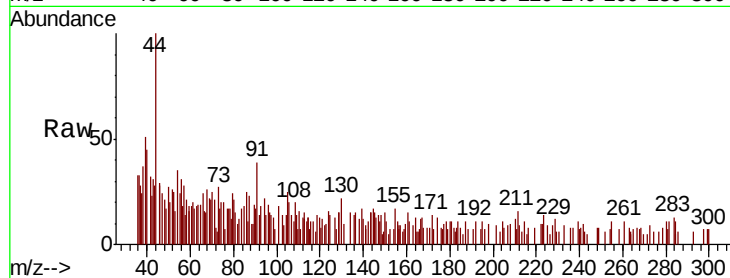
OF-3

Tot Ion: 91 Resp: 763

Ion Ratio Lower Upper

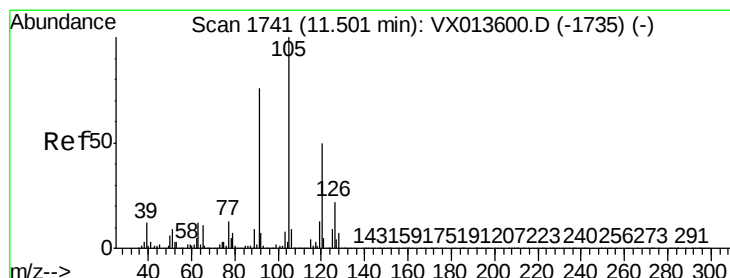
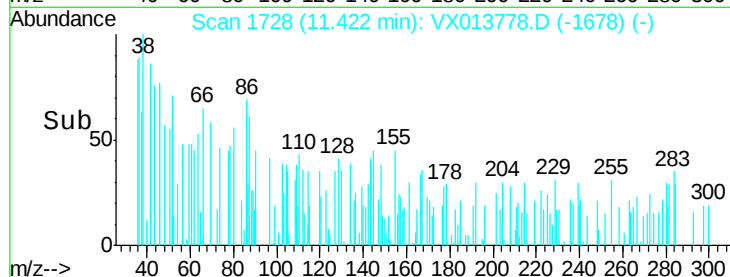
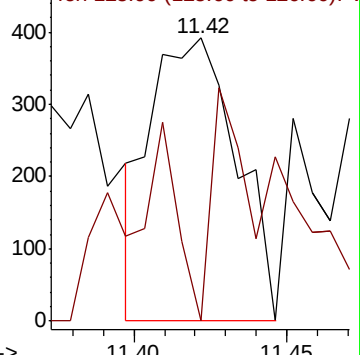
91 100

126 32.5 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 0.840 ug/l

RT: 11.56 min Scan# 1751

Delta R.T. 0.06 min

Lab File: VX013778.D

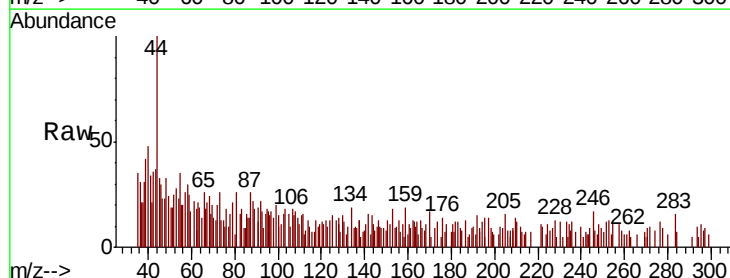
Acq: 05 Dec 2019 15:49

Tgt Ion: 105 Resp: 197

Ion Ratio Lower Upper

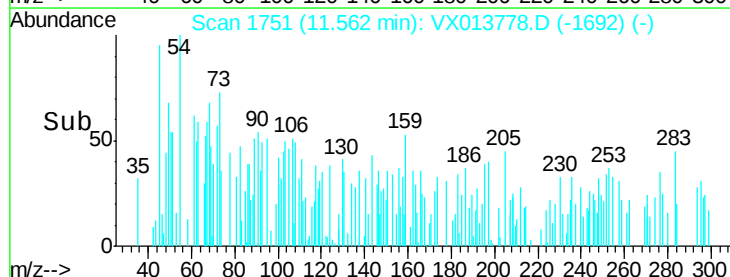
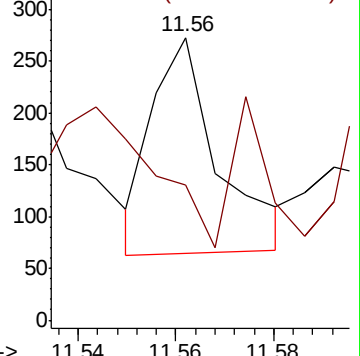
105 100

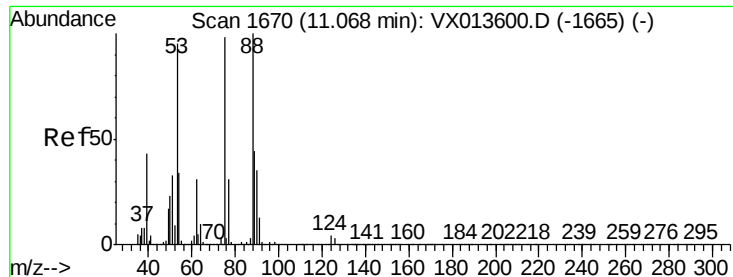
120 37.1 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3139.859 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

OF-3

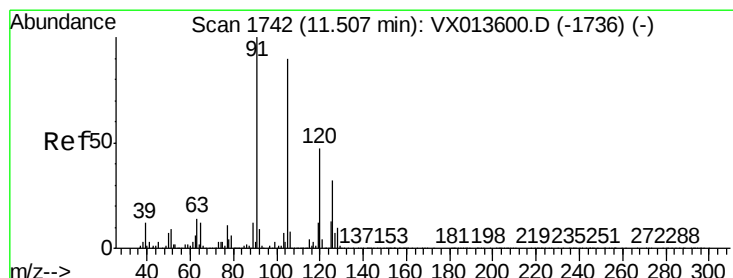
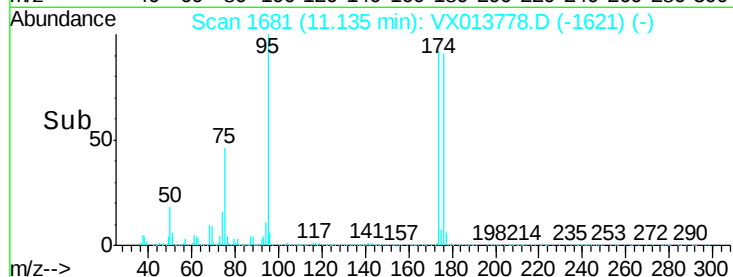
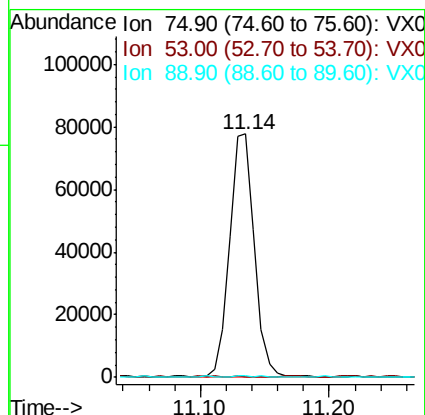
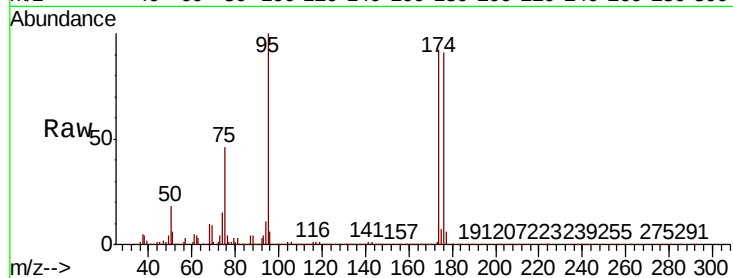
Tot Ion: 75 Resp: 105293

Ion Ratio Lower Upper

75 100

53 0.7 78.2 117.2#

89 0.4 35.4 53.2#



#82

4-Chlorotoluene

Concen: 3.438 ug/l

RT: 11.42 min Scan# 1728

Delta R.T. -0.09 min

Lab File: VX013778.D

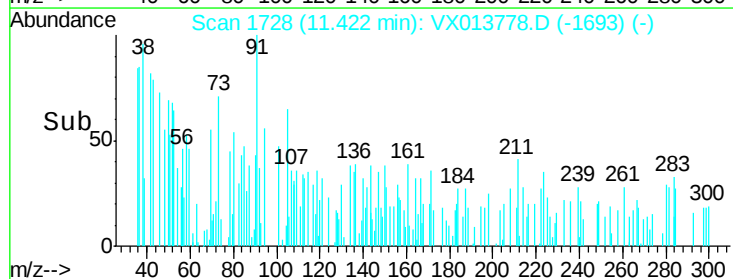
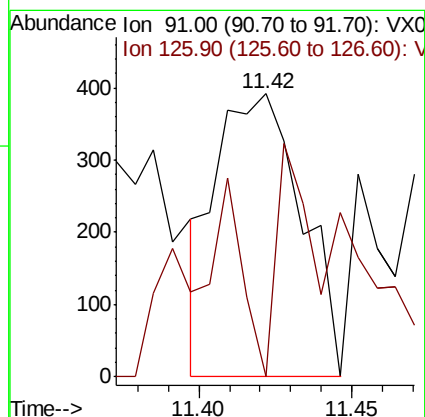
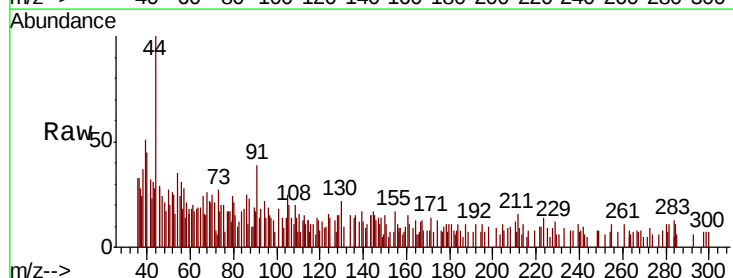
Acq: 05 Dec 2019 15:49

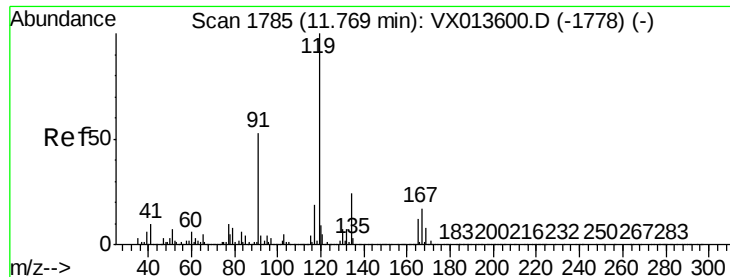
Tgt Ion: 91 Resp: 763

Ion Ratio Lower Upper

91 100

126 32.5 15.7 47.0





#83

tert-Butylbenzene

Concen: 0.470 ug/l

RT: 11.75 min Scan# 1782

Delta R.T. -0.02 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

OF-3

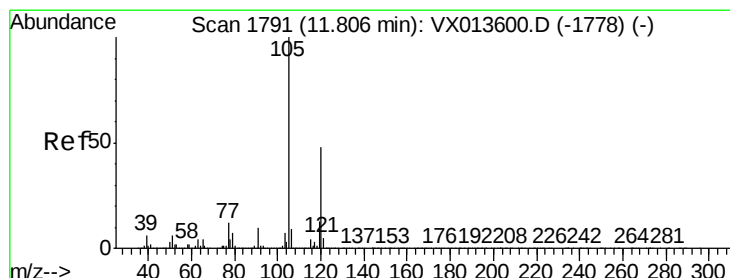
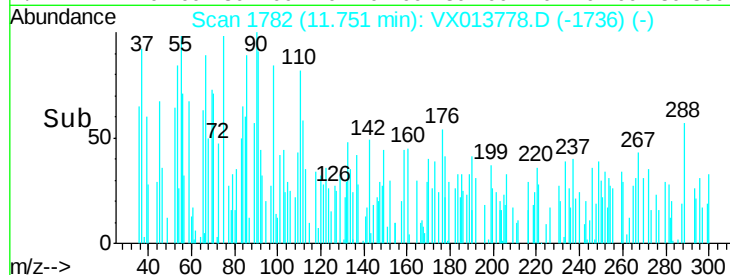
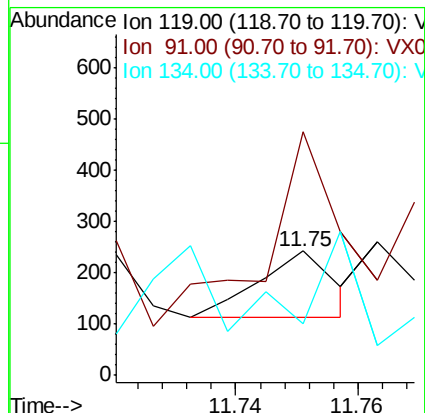
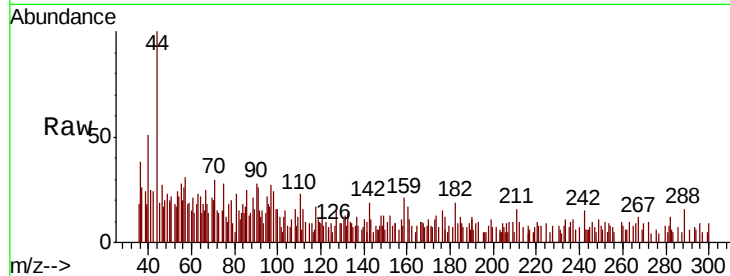
Tot Ion:119 Resp: 112

Ion Ratio Lower Upper

119 100

91 261.6 27.2 81.6#

134 75.0 11.7 35.1#



#84

1,2,4-Trimethylbenzene

Concen: 6.071 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX013778.D

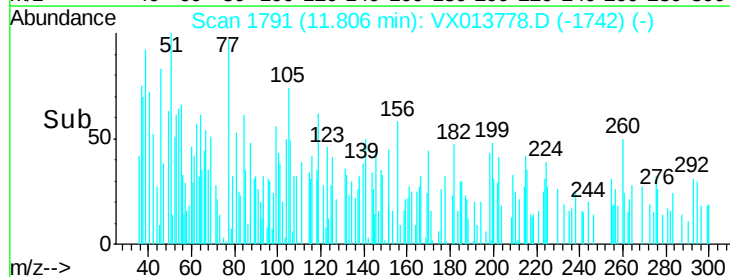
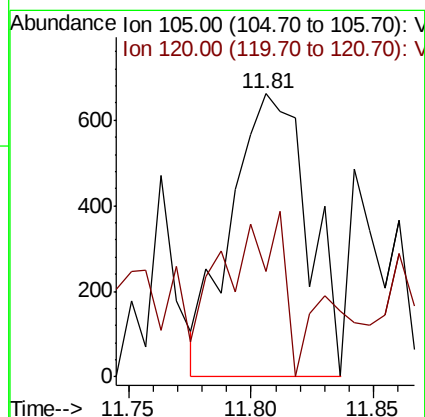
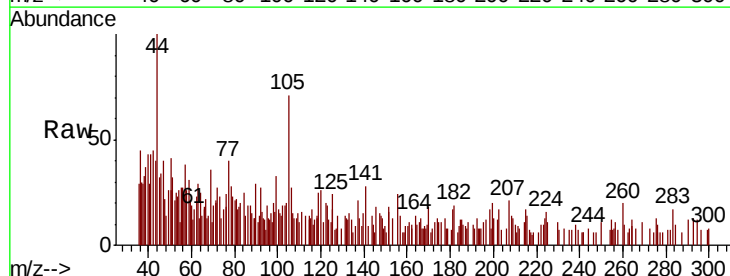
Acq: 05 Dec 2019 15:49

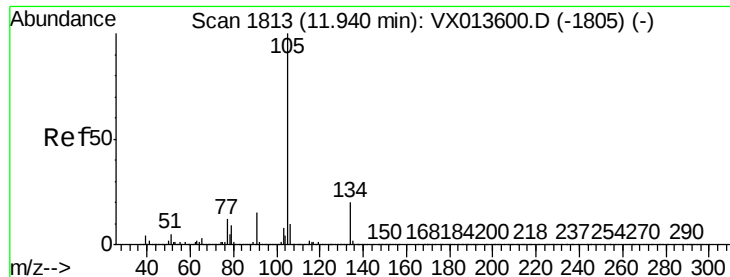
Tgt Ion:105 Resp: 1445

Ion Ratio Lower Upper

105 100

120 30.9 23.1 69.3

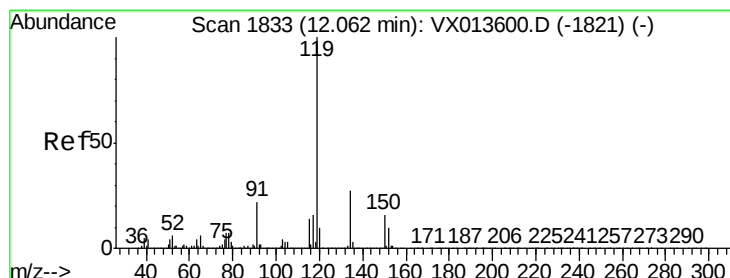
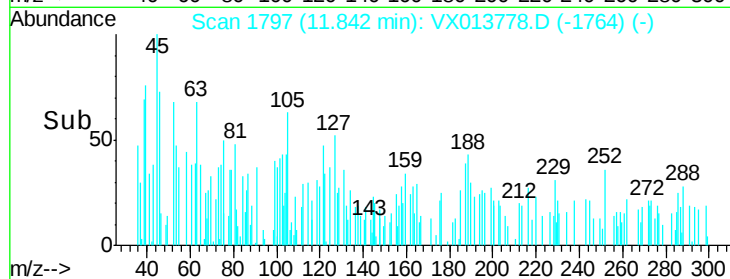
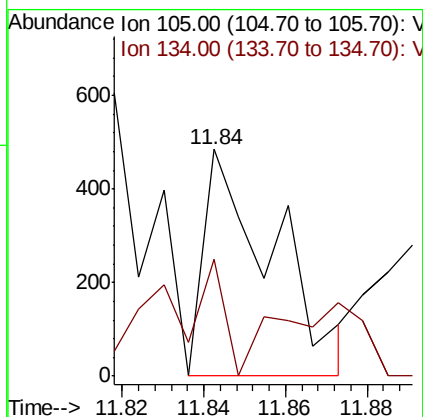
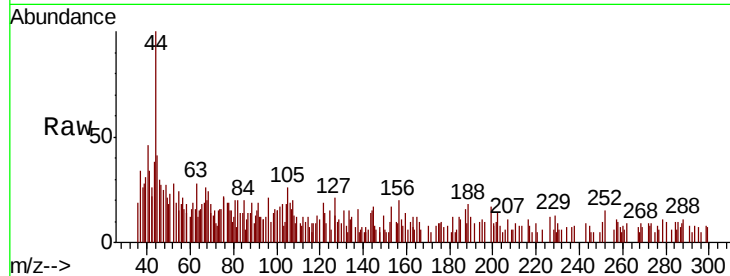




#85
 sec-Butylbenzene
 Concen: 2.116 ug/l
 RT: 11.84 min Scan# 1797
 Delta R.T. -0.10 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

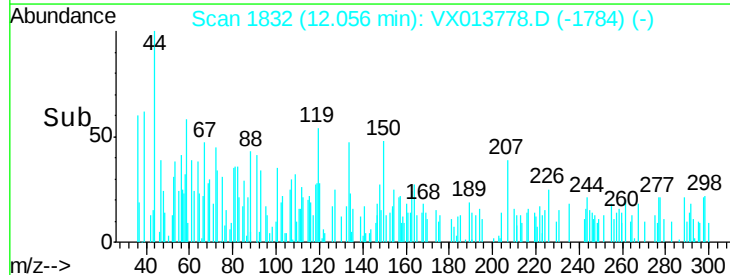
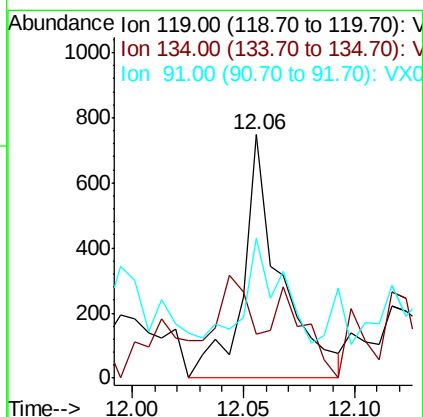
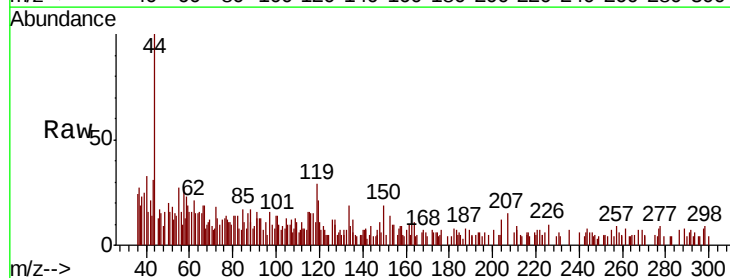
Instrument :
 MSVOA_X
 ClientSampleID :
 OF-3

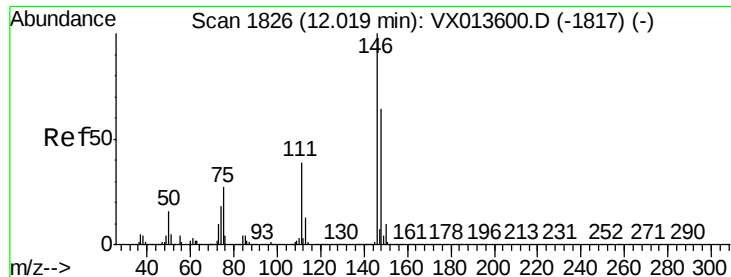
Tot Ion:105 Resp: 576
 Ion Ratio Lower Upper
 105 100
 134 15.8 10.4 31.2



#86
 p-Isopropyltoluene
 Concen: 3.455 ug/l
 RT: 12.06 min Scan# 1832
 Delta R.T. -0.01 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

Tgt Ion:119 Resp: 875
 Ion Ratio Lower Upper
 119 100
 134 24.1 13.3 39.9
 91 39.3 11.3 33.8#

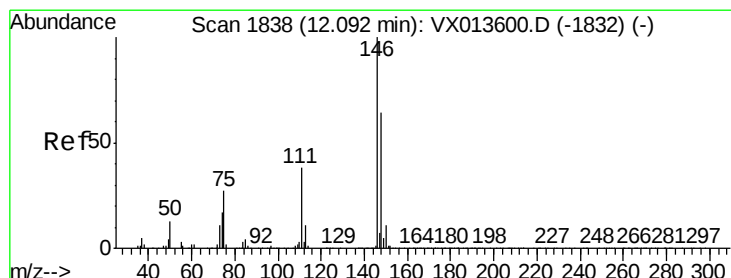
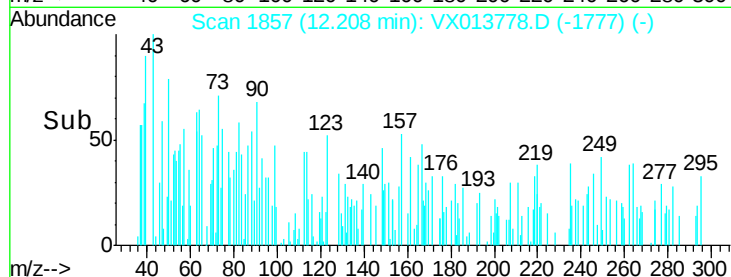
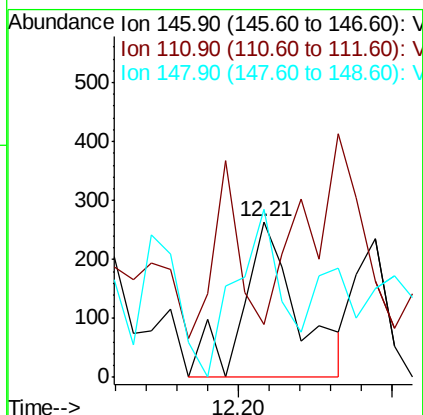
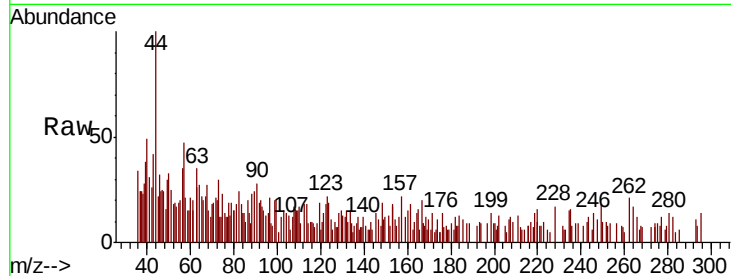




#87
 1,3-Dichlorobenzene
 Concen: 2.449 ug/l
 RT: 12.21 min Scan# 1857
 Delta R.T. 0.19 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

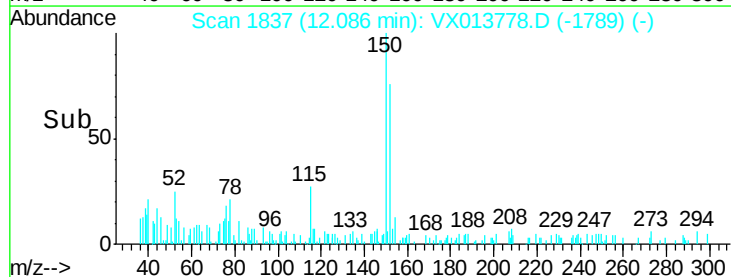
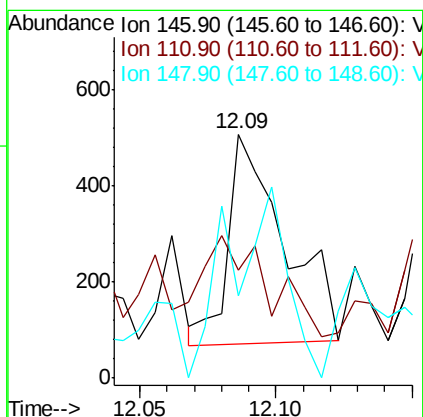
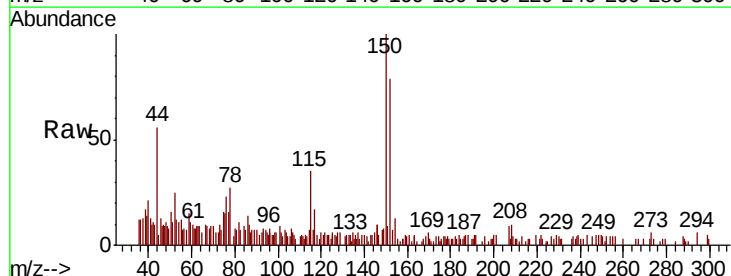
Instrument :
 MSVOA_X
 ClientSampled :
 OF-3

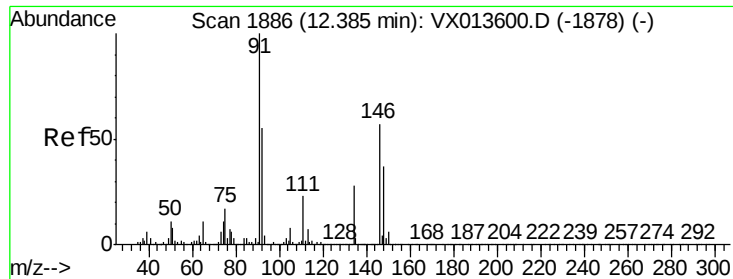
Tot Ion:146 Resp: 330
 Ion Ratio Lower Upper
 146 100
 111 54.8 19.0 57.0
 148 90.6 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 4.554 ug/l
 RT: 12.09 min Scan# 1837
 Delta R.T. -0.01 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

Tgt Ion:146 Resp: 625
 Ion Ratio Lower Upper
 146 100
 111 102.7 18.9 56.9#
 148 93.3 31.9 95.5

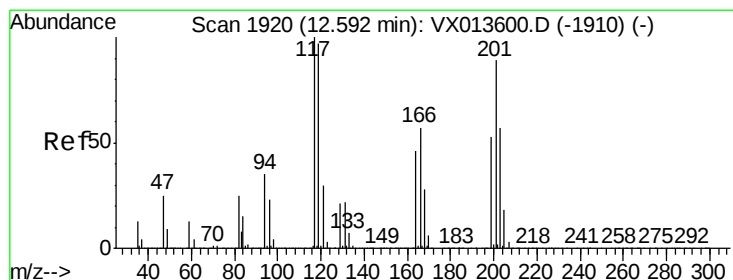
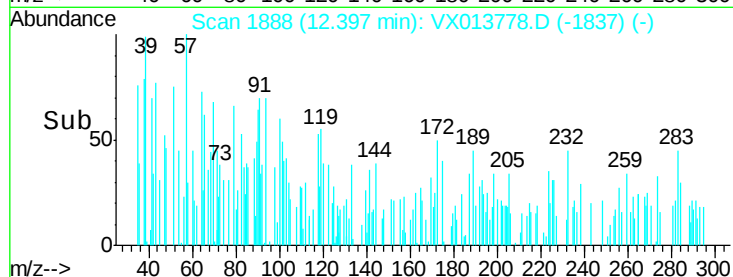
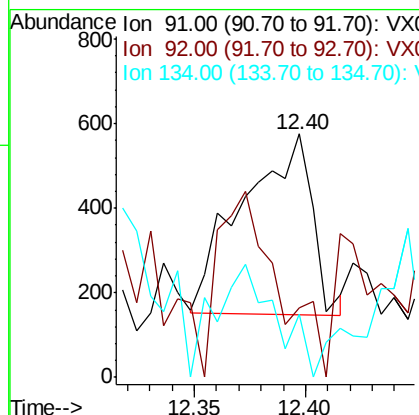
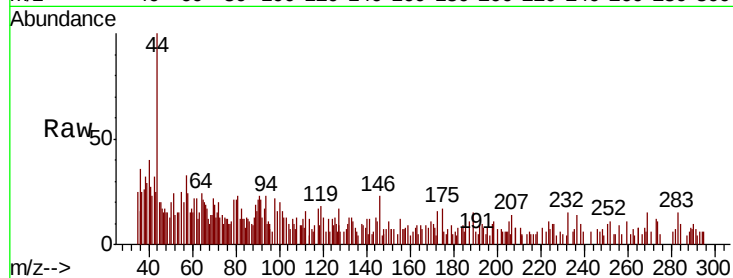




#89
n-Butylbenzene
Concen: 4.264 ug/l
RT: 12.40 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

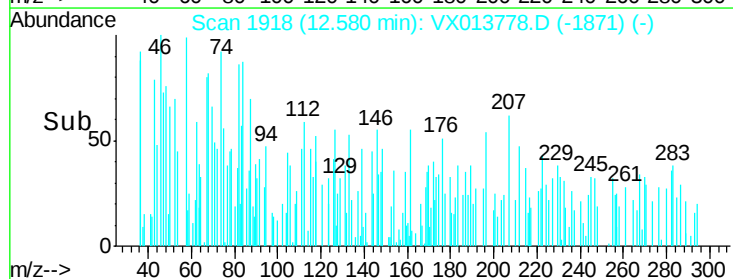
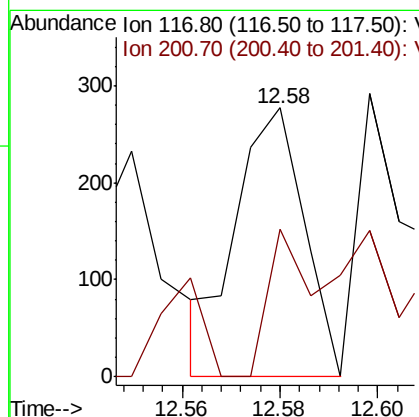
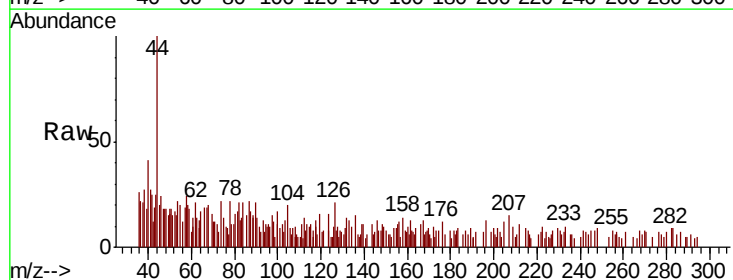
Instrument :
MSVOA_X
ClientSampled :
OF-3

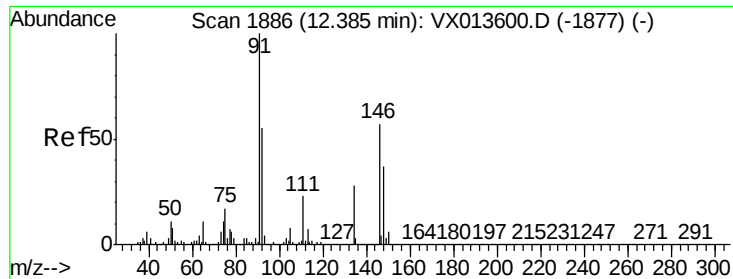
Tot Ion: 91 Resp: 921
Ion Ratio Lower Upper
91 100
92 0.0 27.4 82.2#
134 0.0 13.5 40.4#



#90
Hexachloroethane
Concen: 5.811 ug/l
RT: 12.58 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VX013778.D
Acq: 05 Dec 2019 15:49

Tgt Ion: 117 Resp: 266
Ion Ratio Lower Upper
117 100
201 46.6 44.1 132.4





#91

1,2-Dichlorobenzene

Concen: 2.479 ug/l

RT: 12.21 min Scan# 1857

Delta R.T. -0.18 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampled :

OF-3

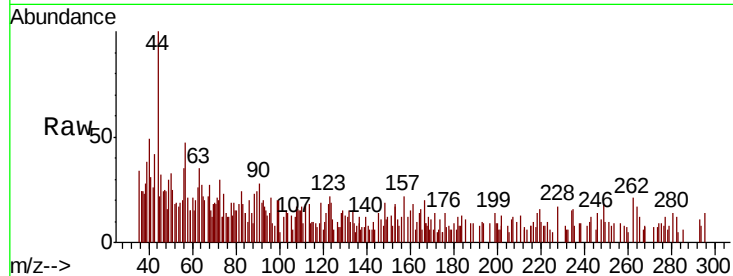
Tot Ion:146 Resp: 330

Ion Ratio Lower Upper

146 100

111 53.0 19.6 58.7

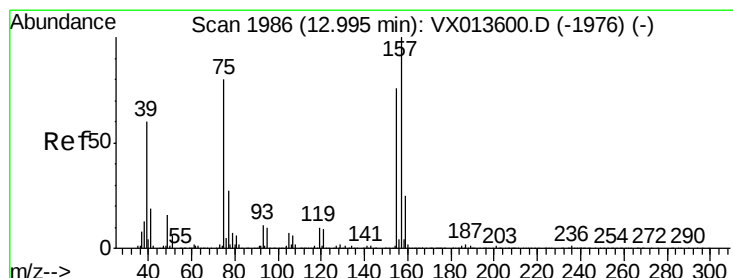
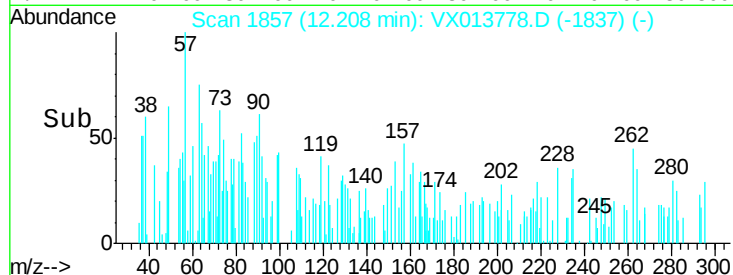
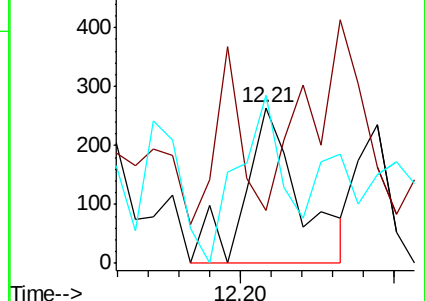
148 90.6 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.447 ug/l

RT: 13.03 min Scan# 1992

Delta R.T. 0.04 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

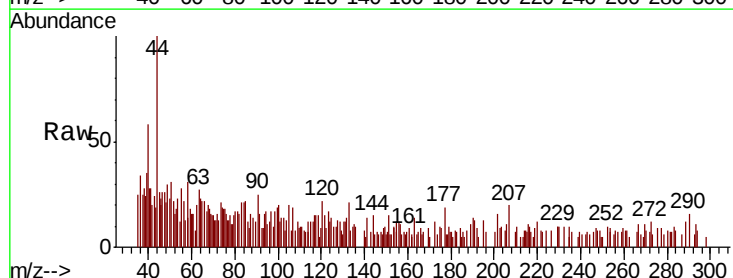
Tgt Ion: 75 Resp: 377

Ion Ratio Lower Upper

75 100

155 73.5 47.6 142.8

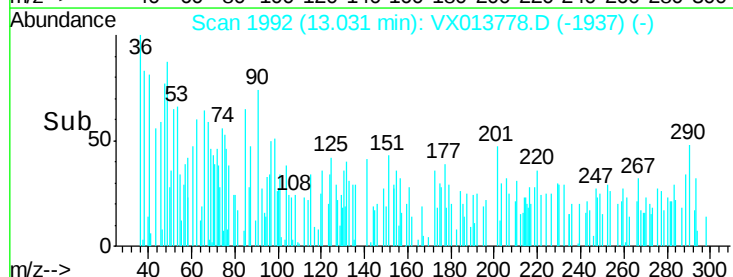
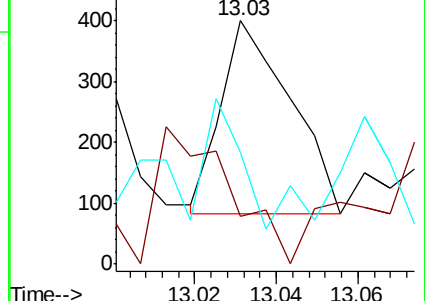
157 65.3 62.1 186.2

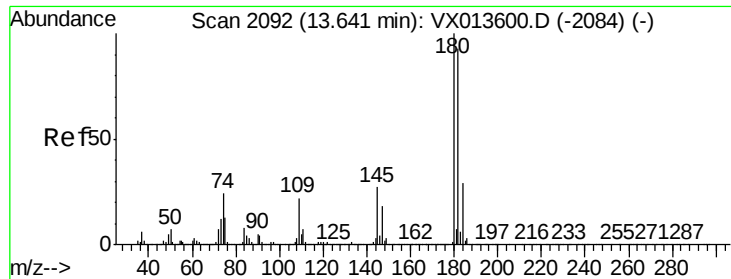


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

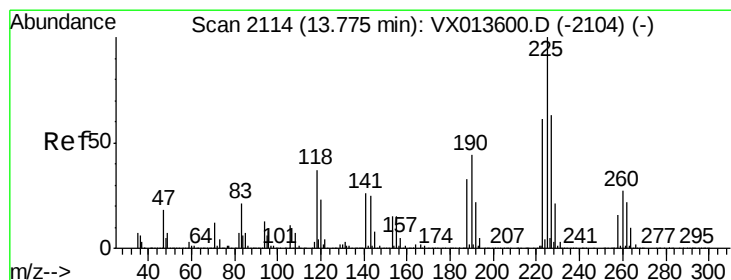
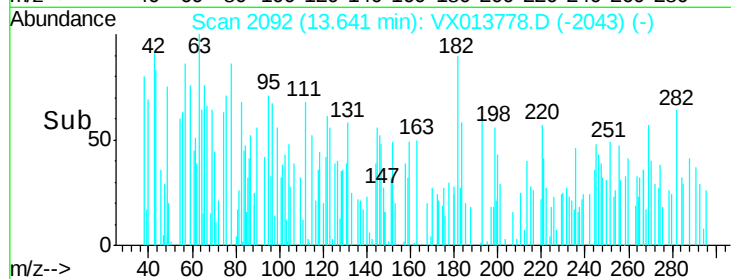
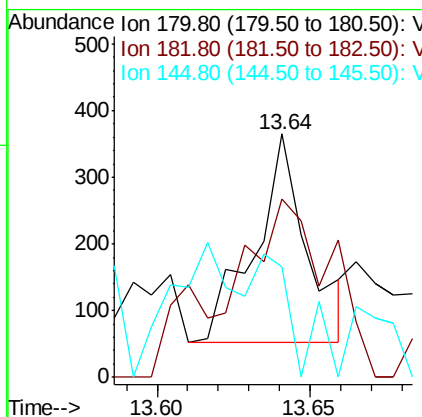
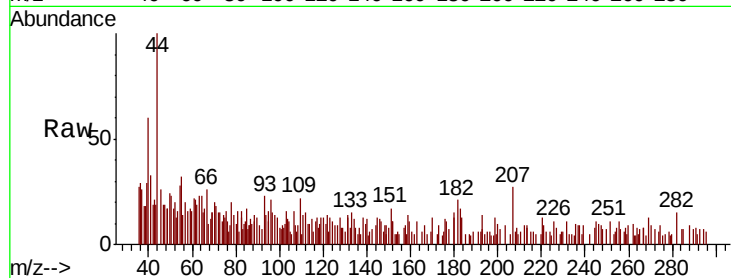




#93
 1,2,4-Trichlorobenzene
 Concen: 4.020 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

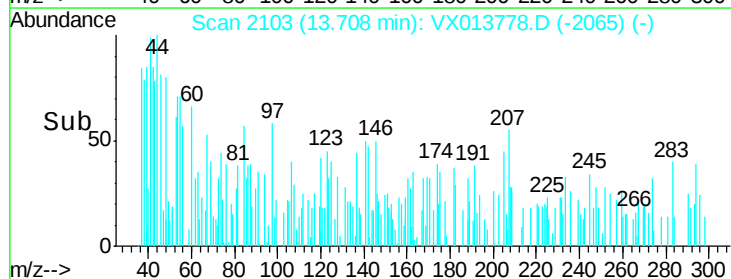
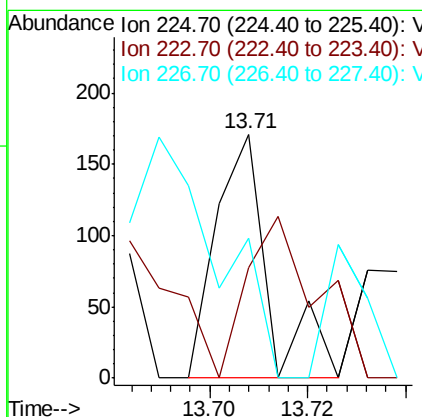
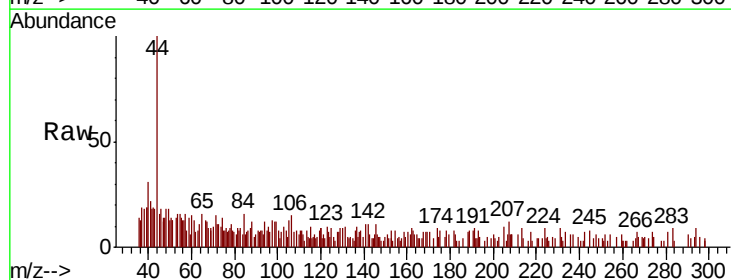
Instrument :
 MSVOA_X
 ClientSampled :
 OF-3

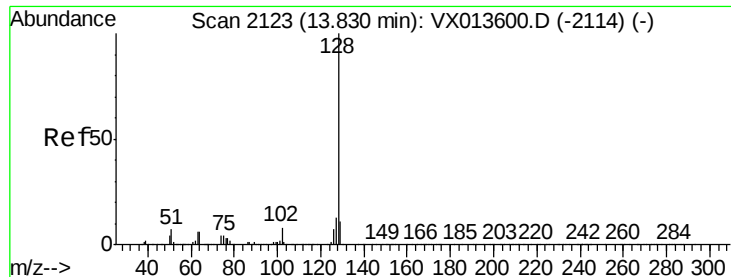
Tot Ion:180 Resp: 373
 Ion Ratio Lower Upper
 180 100
 182 136.7 47.2 141.6
 145 0.0 13.8 41.4#



#94
 Hexachlorobutadiene
 Concen: 2.849 ug/l
 RT: 13.71 min Scan# 2103
 Delta R.T. -0.07 min
 Lab File: VX013778.D
 Acq: 05 Dec 2019 15:49

Tgt Ion:225 Resp: 127
 Ion Ratio Lower Upper
 225 100
 223 89.0 31.9 95.5
 227 43.3 32.1 96.3





#95

Naphthalene

Concen: 10.155 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

Instrument :

MSVOA_X

ClientSampleId :

OF-3

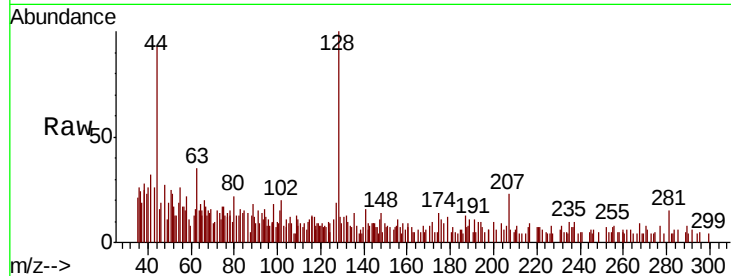
Tot Ion:128 Resp: 2806

Ion Ratio Lower Upper

128 100

127 13.8 10.3 15.5

129 11.3 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

1500

1000

500

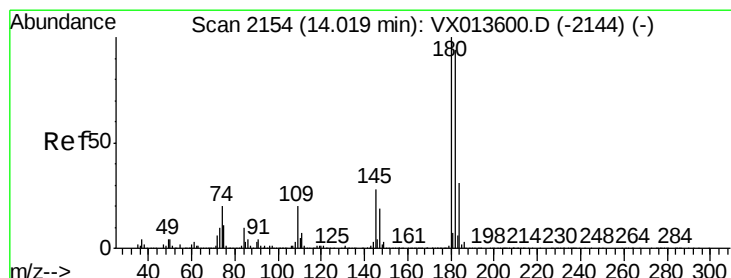
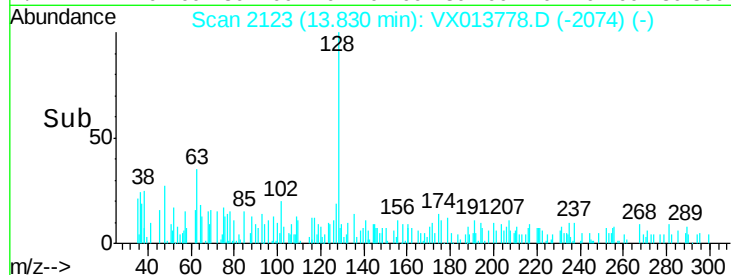
0

13.80

13.83

13.90

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 8.023 ug/l

RT: 14.00 min Scan# 2151

Delta R.T. -0.02 min

Lab File: VX013778.D

Acq: 05 Dec 2019 15:49

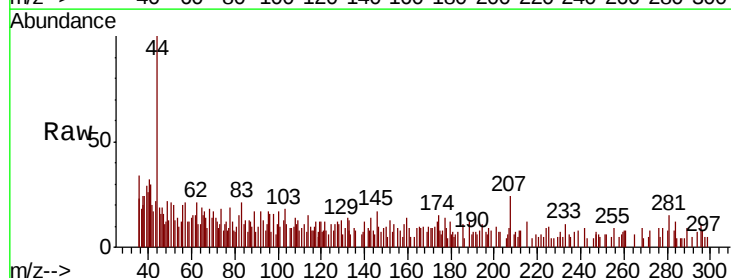
Tgt Ion:180 Resp: 737

Ion Ratio Lower Upper

180 100

182 0.0 47.6 142.8#

145 17.9 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

400

300

200

100

0

13.95

14.00

14.05

Time-->

