

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100119\
 Data File : VX012726.D
 Acq On : 01 Oct 2019 12:31
 Operator : JC/SP
 Sample : K5125-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 02 01:45:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	159169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	274815	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	225440	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	77276	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	109794	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
35) Dibromofluoromethane	5.49	113	83367	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
50) Toluene-d8	8.71	98	319462	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.14	95	101525	40.97	ug/l	0.00
Spiked Amount			Recovery	=	81.94%	

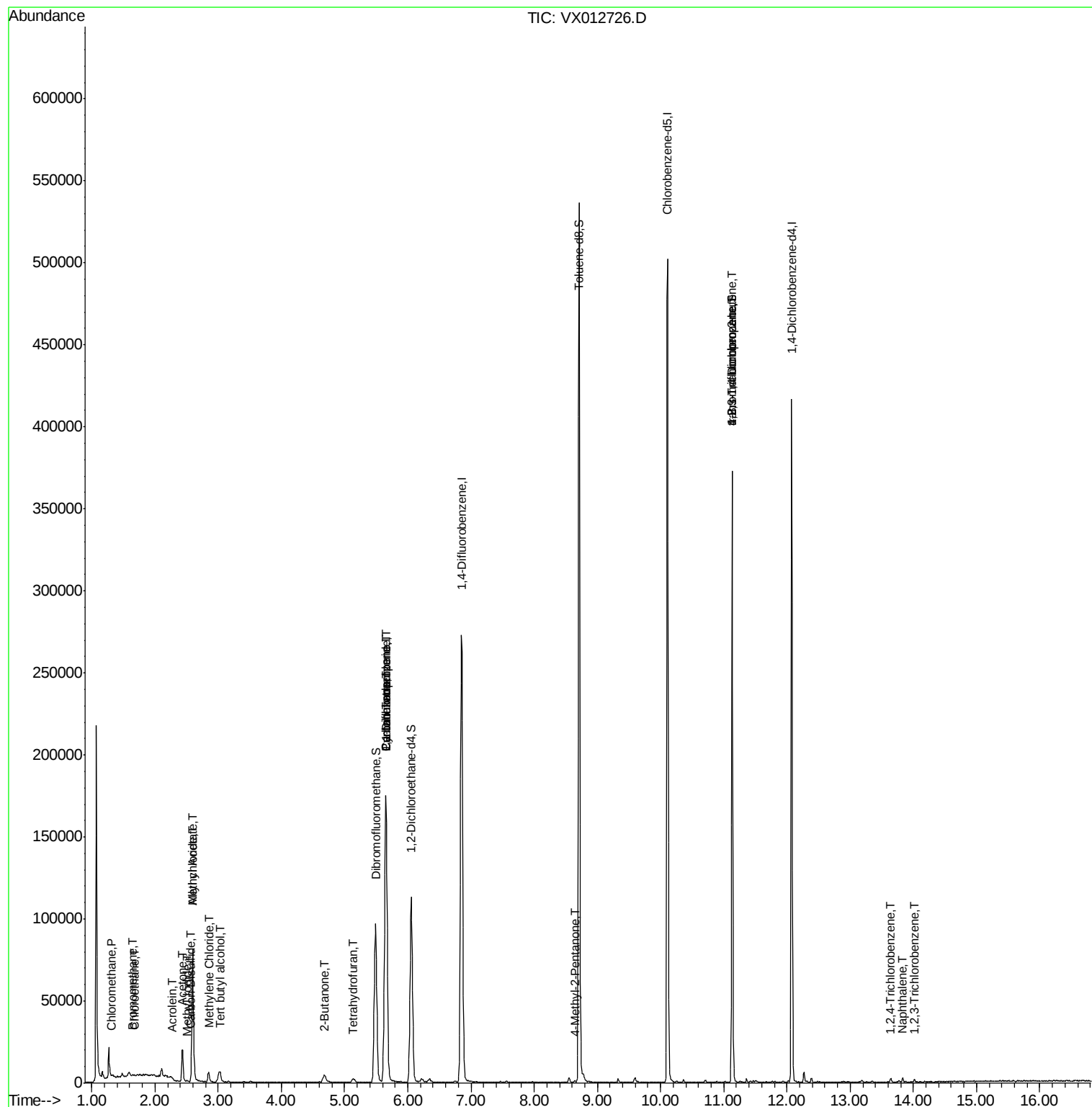
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	455	0.221	ug/l #	63
5) Bromomethane	1.64	94	559	0.696	ug/l #	71
6) Chloroethane	1.68	64	1005	0.729	ug/l #	73
10) Methyl Iodide	2.51	142	469	5.182	ug/l #	92
11) Tert butyl alcohol	3.03	59	8135	14.050	ug/l #	90
13) Acrolein	2.28	56	134	10.631	ug/l #	1
14) Allyl chloride	2.59	41	8042	2.369	ug/l #	68
16) Acetone	2.43	43	21685	17.663	ug/l	94
17) Carbon Disulfide	2.56	76	1062	0.221	ug/l #	73
18) Methyl Acetate	2.59	43	20282	7.016	ug/l #	54
20) Methylene Chloride	2.85	84	2921	1.407	ug/l	89
25) 2-Butanone	4.67	43	2628	1.493	ug/l	95
29) Tetrahydrofuran	5.14	42	1864	1.737	ug/l #	81
31) Cyclohexane	5.65	56	3871	1.200	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13883	5.241	ug/l #	51
38) Carbon Tetrachloride	5.65	117	16798	6.243	ug/l #	20
51) 4-Methyl-2-Pentanone	8.65	43	738	0.231	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	52801	25.830	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	52801	74.024	ug/l #	8
93) 1,2,4-Trichlorobenzene	13.65	180	582	0.372	ug/l	90
95) Naphthalene	13.83	128	1840	0.325	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.01	180	544	0.347	ug/l	94

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

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

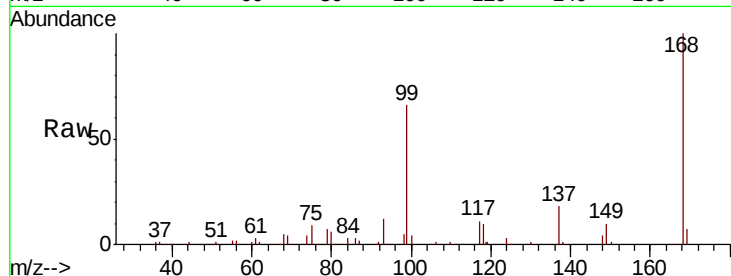
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 159169

Ion Ratio Lower Upper

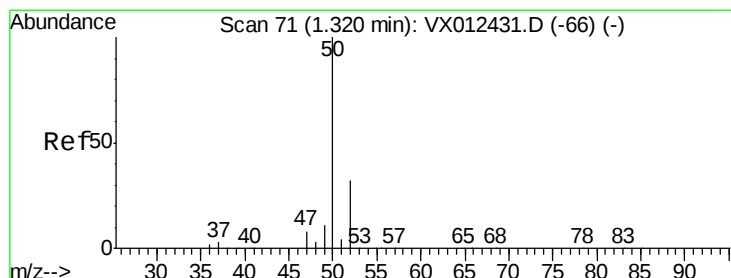
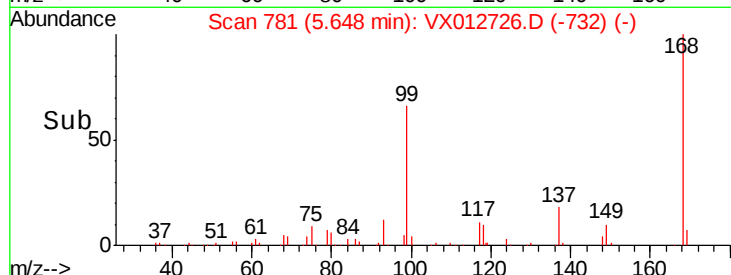
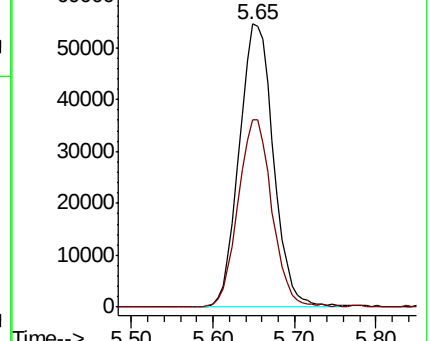
168 100

99 66.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012726.D

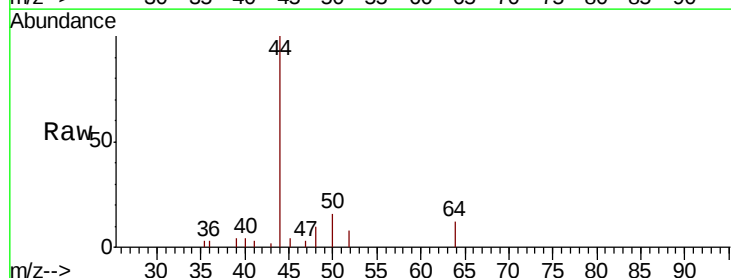
Acq: 01 Oct 2019 12:31

Tgt Ion: 50 Resp: 455

Ion Ratio Lower Upper

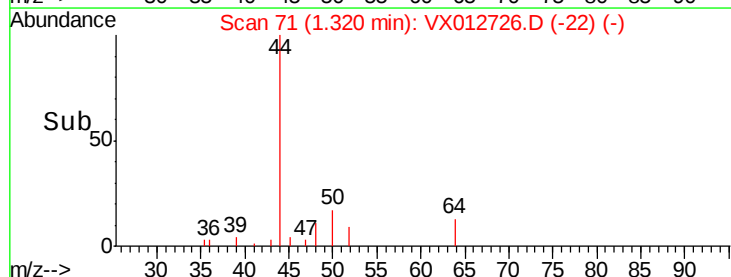
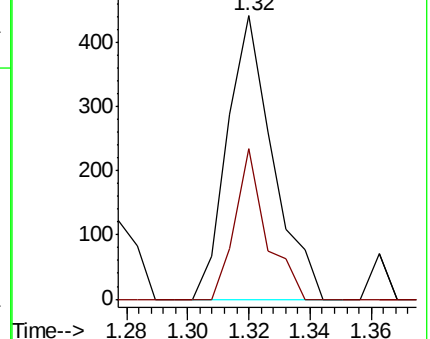
50 100

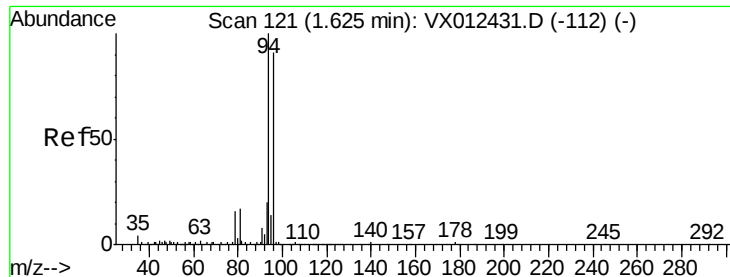
52 52.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.696 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

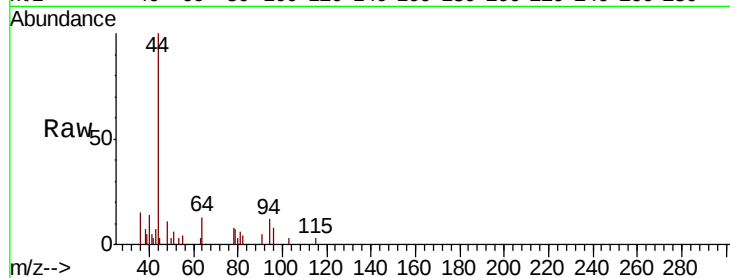
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 559

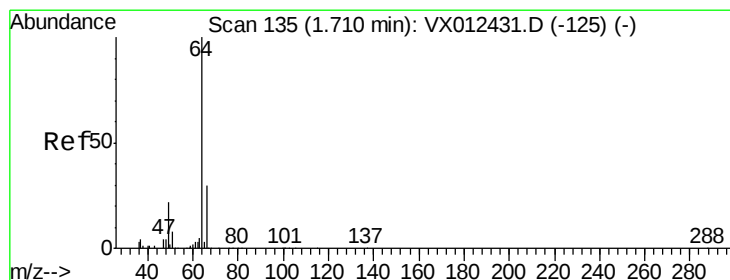
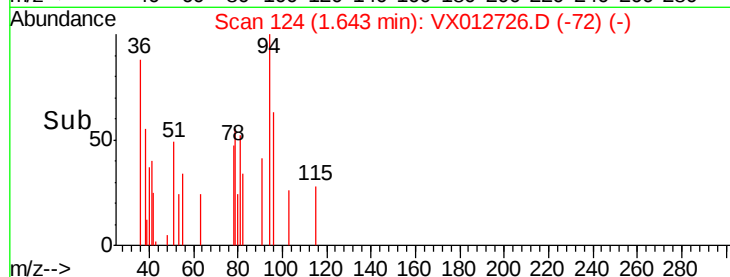
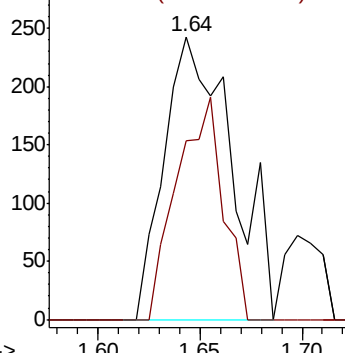
Ion Ratio Lower Upper

94 100

96 63.4 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0
Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.729 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.03 min

Lab File: VX012726.D

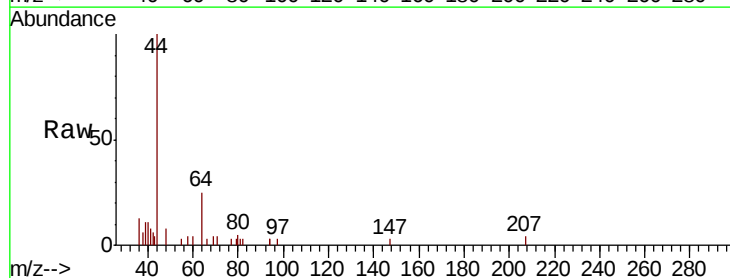
Acq: 01 Oct 2019 12:31

Tgt Ion: 64 Resp: 1005

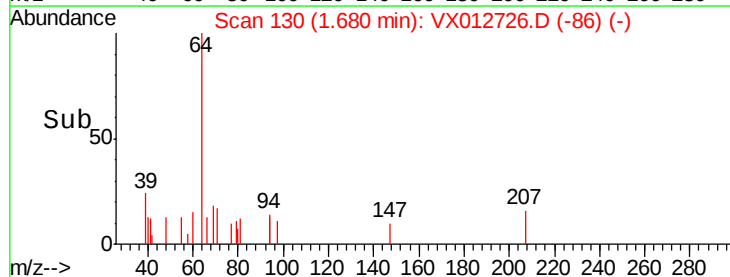
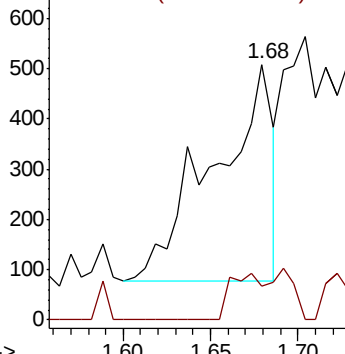
Ion Ratio Lower Upper

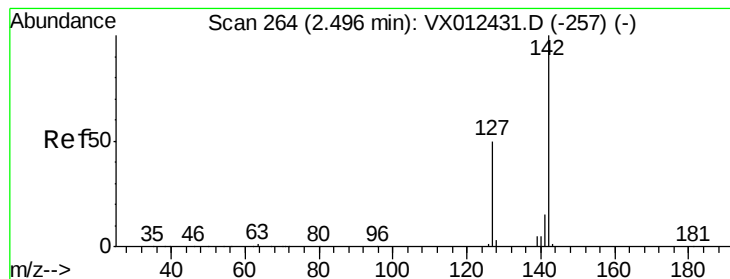
64 100

66 15.6 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0
Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 5.182 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

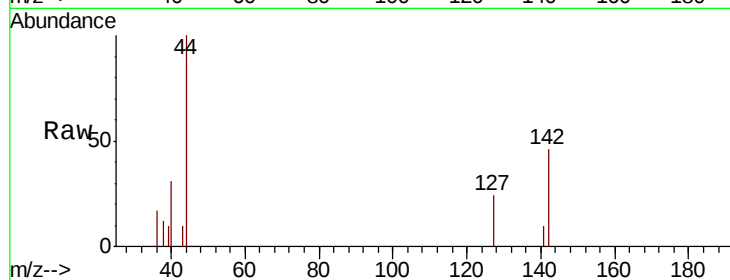
Tot Ion:142 Resp: 469

Ion Ratio Lower Upper

142 100

127 55.9 40.8 61.2

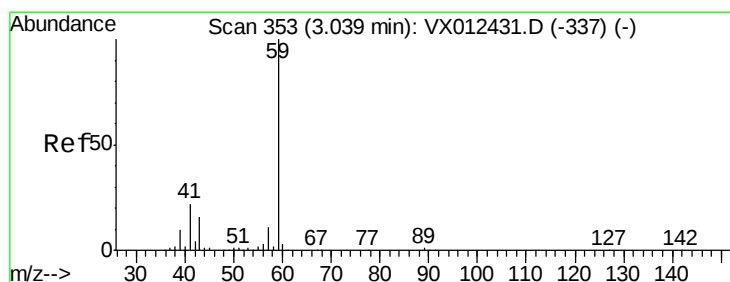
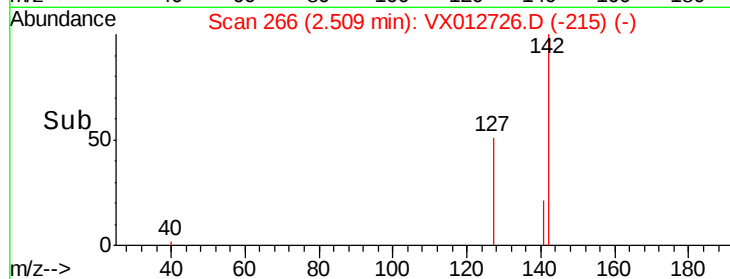
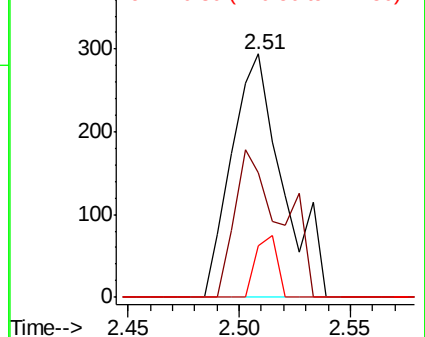
141 10.7 12.1 18.1#



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



#11

Tert butyl alcohol

Concen: 14.050 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX012726.D

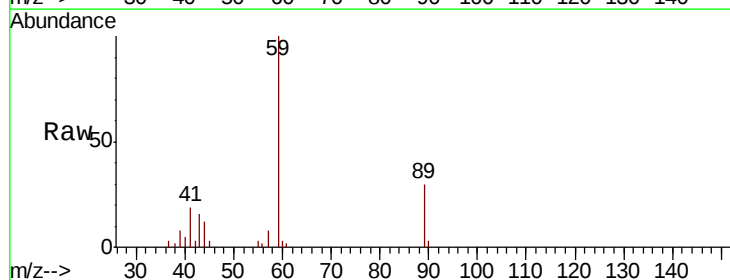
Acq: 01 Oct 2019 12:31

Tgt Ion: 59 Resp: 8135

Ion Ratio Lower Upper

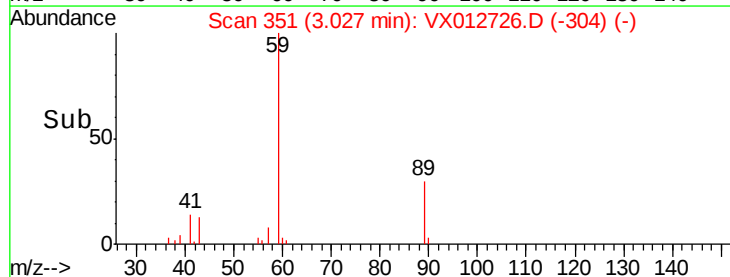
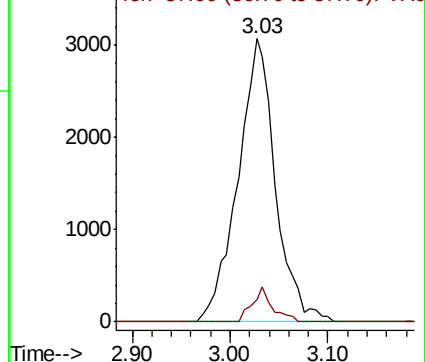
59 100

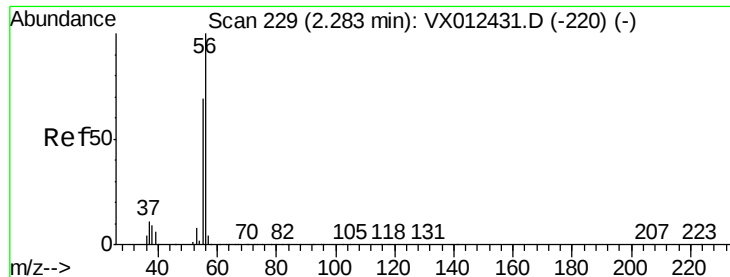
57 6.6 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.631 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

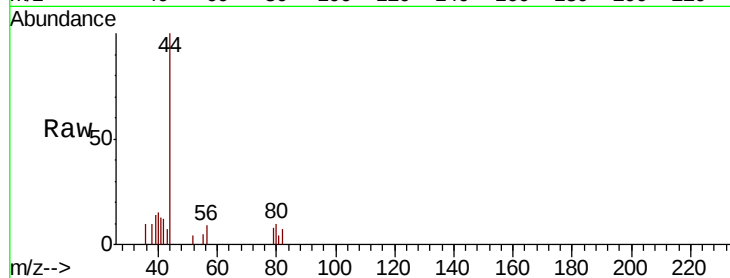
ClientSampleId :

Tot Ion: 56 Resp: 134

Ion Ratio Lower Upper

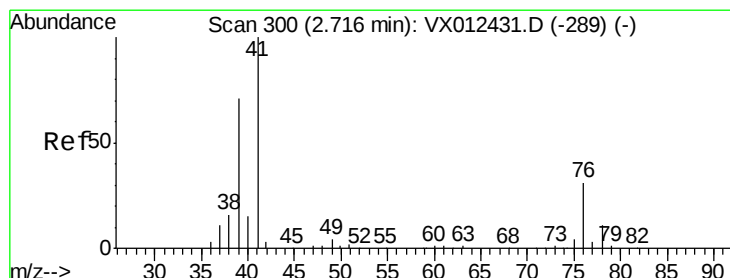
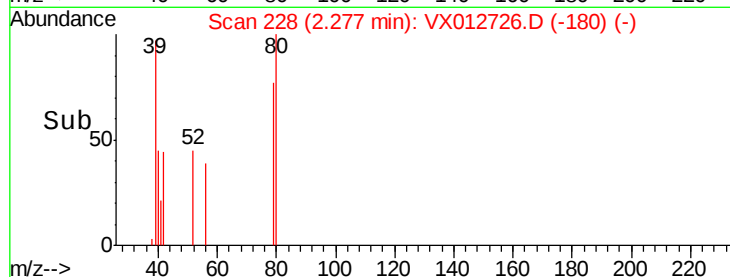
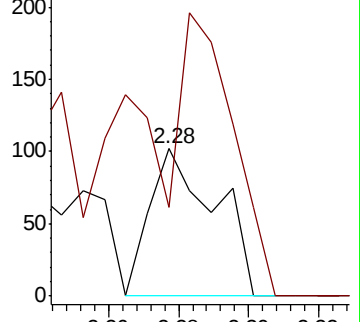
56 100

55 150.7 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 2.369 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

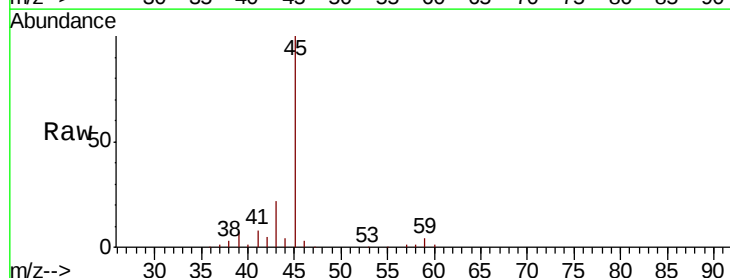
Tgt Ion: 41 Resp: 8042

Ion Ratio Lower Upper

41 100

39 81.7 51.3 76.9#

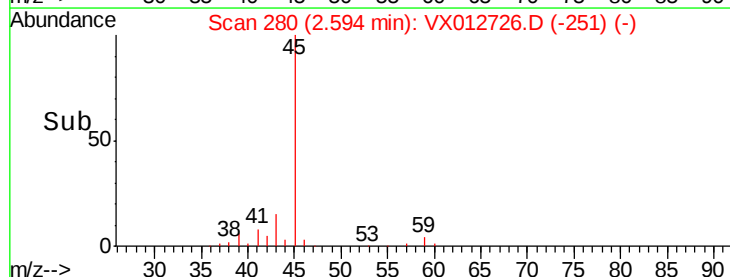
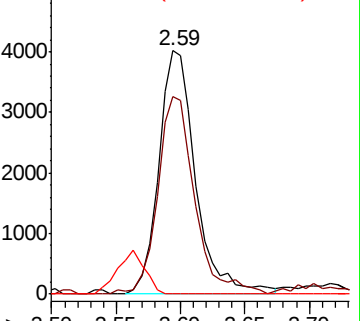
76 0.0 22.6 33.8#

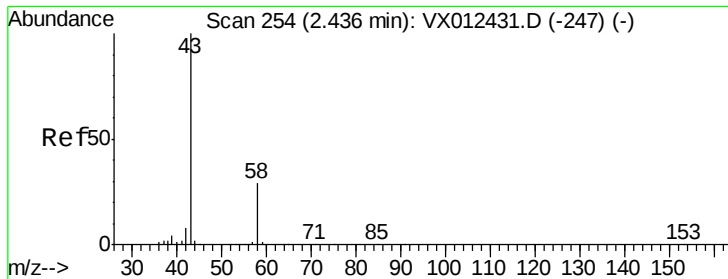


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 17.663 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

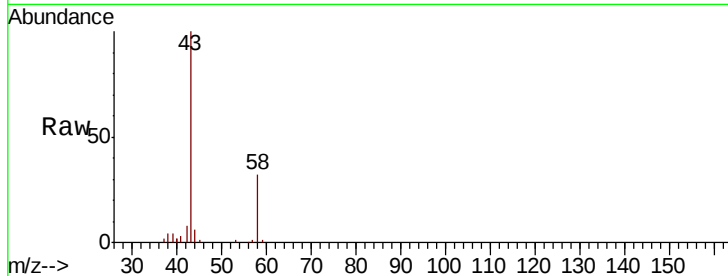
ClientSampled :

Tot Ion: 43 Resp: 21685

Ion Ratio Lower Upper

43 100

58 32.3 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

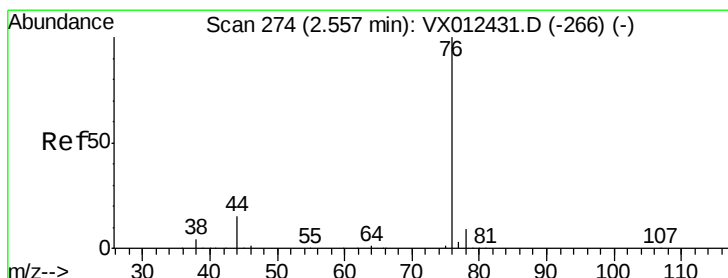
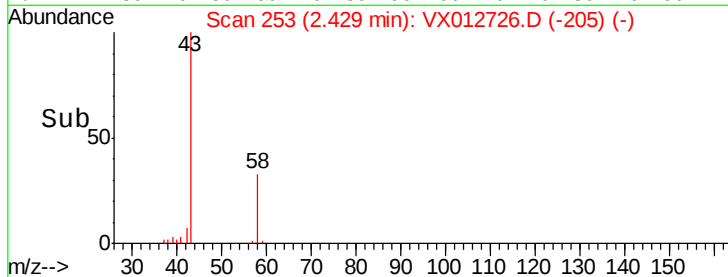
2.43

10000

5000

0

Time--> 2.30 2.40 2.50



#17

Carbon Disulfide

Concen: 0.221 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012726.D

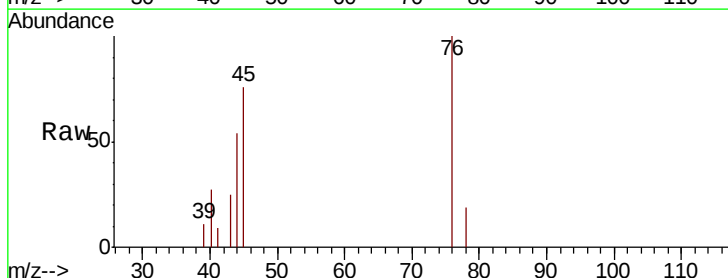
Acq: 01 Oct 2019 12:31

Tgt Ion: 76 Resp: 1062

Ion Ratio Lower Upper

76 100

78 18.9 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

800

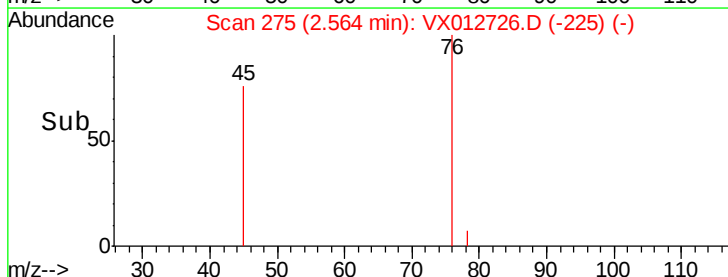
600

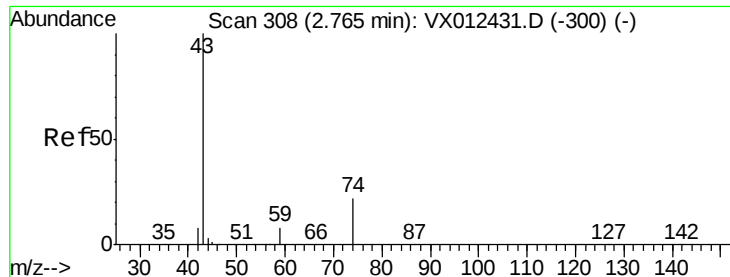
400

200

0

Time--> 2.50 2.55 2.60

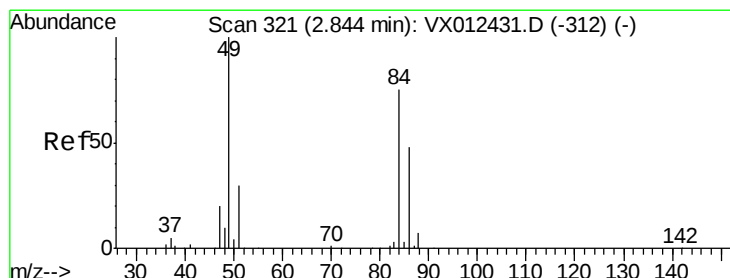
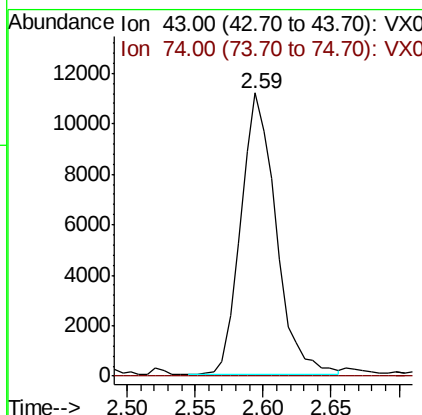
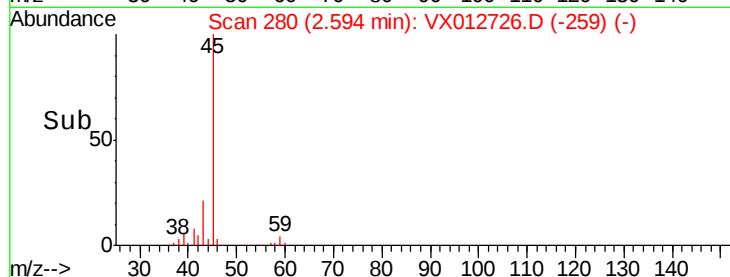
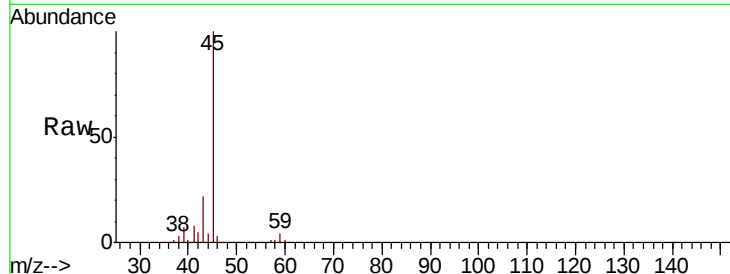




#18
Methvl Acetate
Concen: 7.016 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

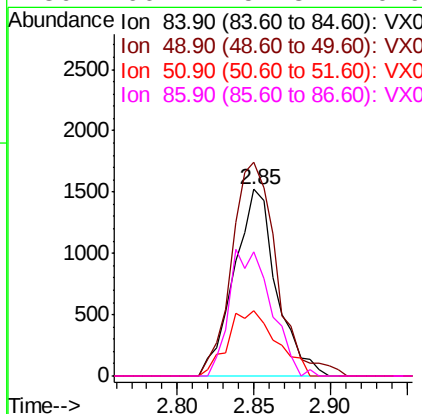
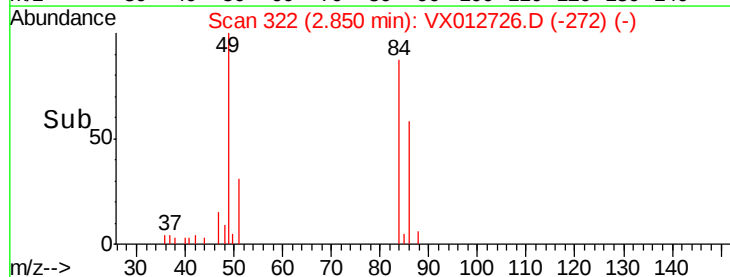
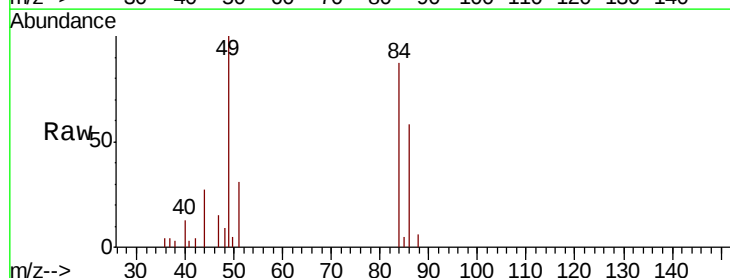
Instrument :
MSVOA_X
ClientSampleId :

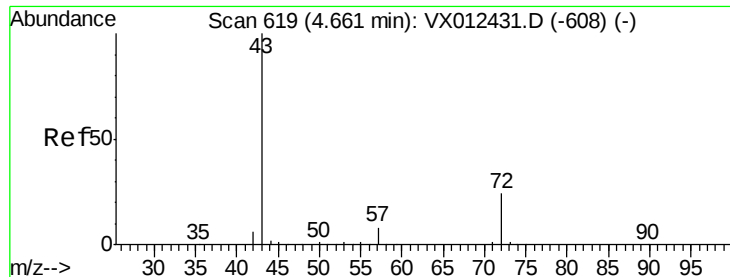
Tot Ion: 43 Resp: 20282
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 1.407 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

Tgt Ion: 84 Resp: 2921
Ion Ratio Lower Upper
84 100
49 114.5 106.8 160.2
51 35.4 32.3 48.5
86 66.7 51.3 76.9





#25

2-Butanone

Concen: 1.493 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

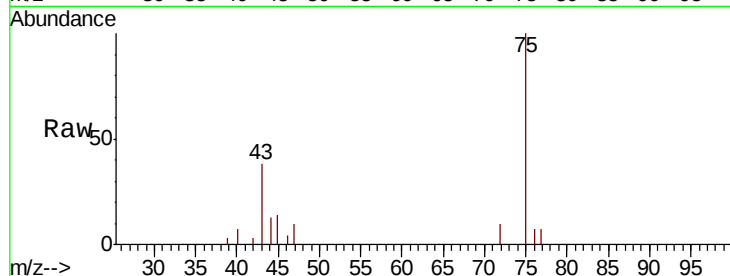
ClientSampled :

Tot Ion: 43 Resp: 2628

Ion Ratio Lower Upper

43 100

72 26.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.67

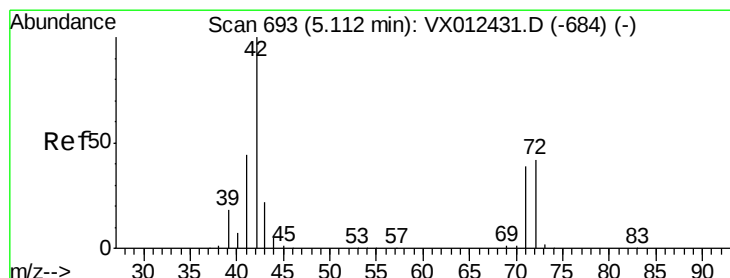
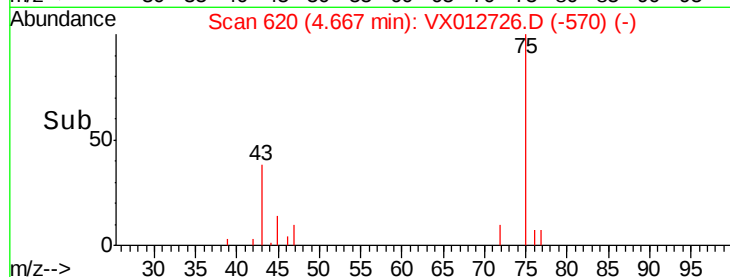
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 1.737 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

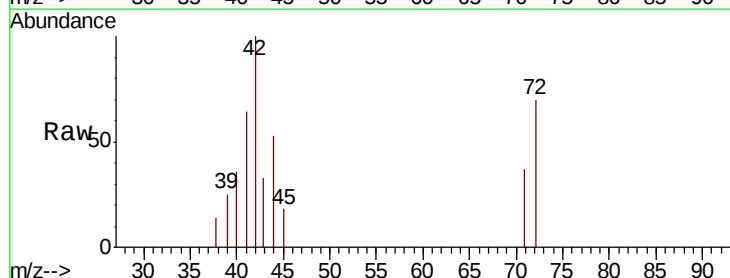
Tgt Ion: 42 Resp: 1864

Ion Ratio Lower Upper

42 100

72 30.6 34.0 51.0#

71 27.4 31.5 47.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

800

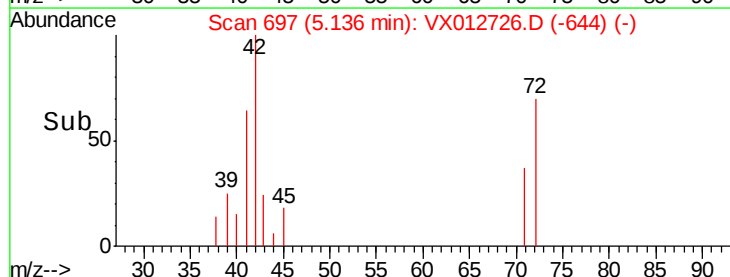
600

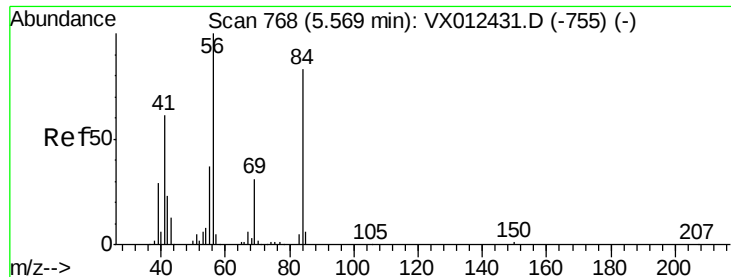
400

200

0

Time-->

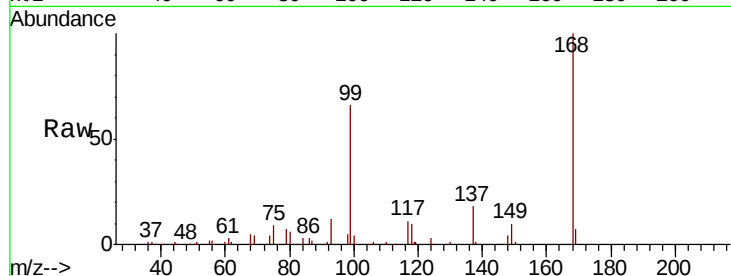




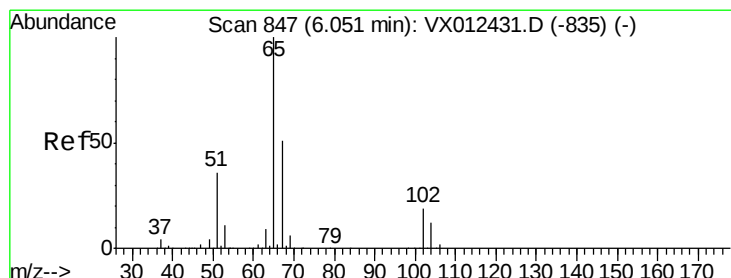
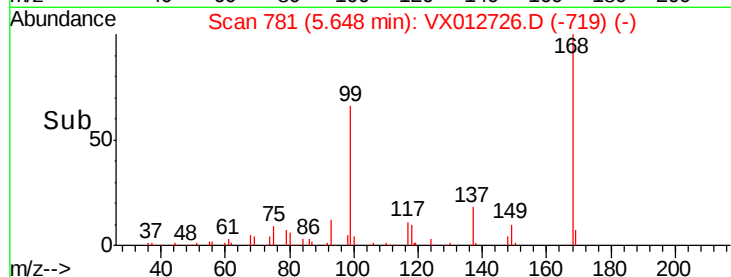
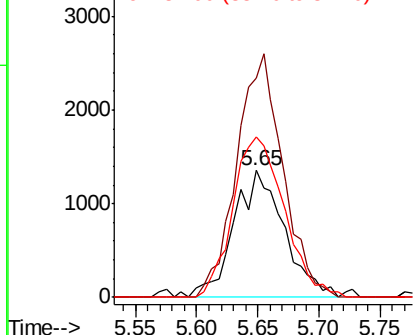
#31
Cyclohexane
Concen: 1.200 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 3871
Ion Ratio Lower Upper
56 100
69 172.6 25.0 37.6#
84 125.9 66.4 99.6#

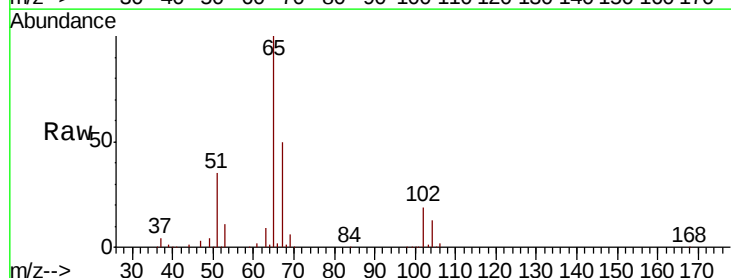


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

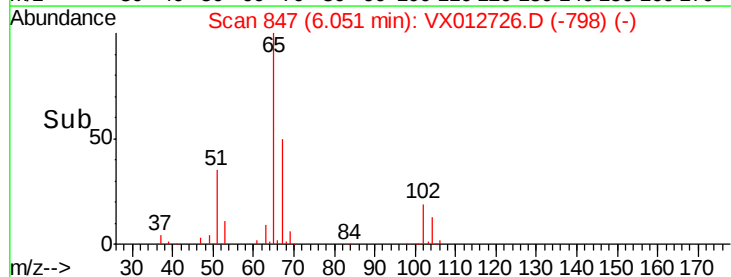
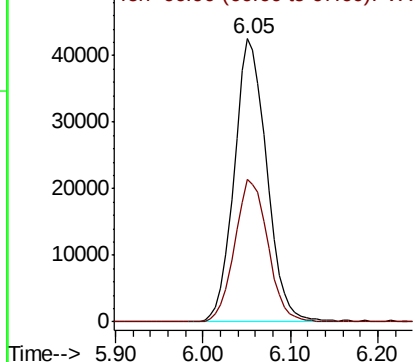


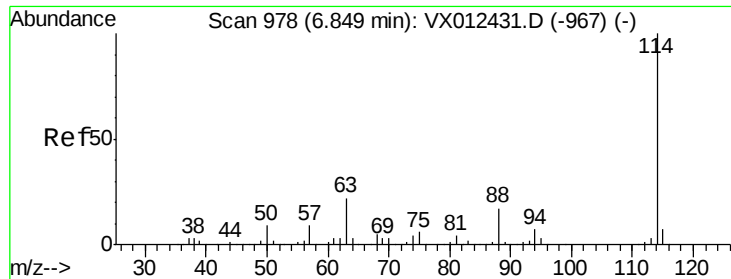
#33
1,2-Dichloroethane-d4
Concen: 47.370 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

Tgt Ion: 65 Resp: 109794
Ion Ratio Lower Upper
65 100
67 51.6 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

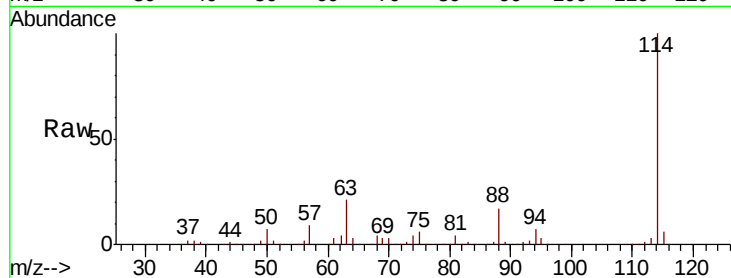




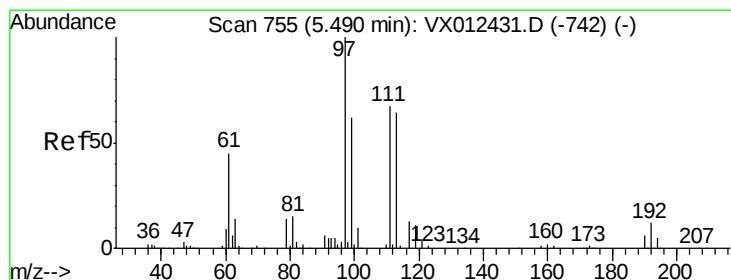
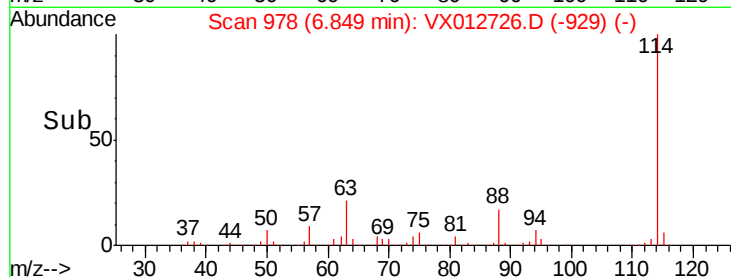
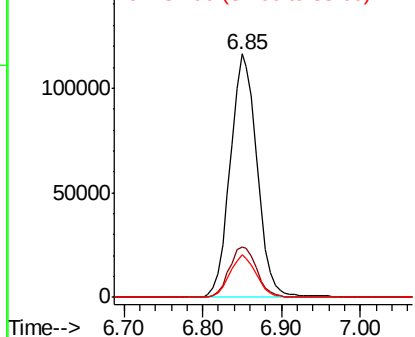
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012726.D
 Acq: 01 Oct 2019 12:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 274815
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.2
 88 17.4 0.0 33.2

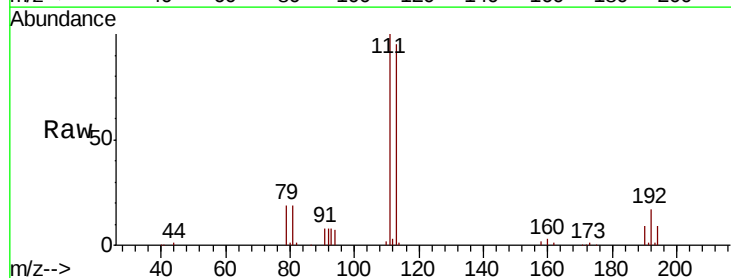


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

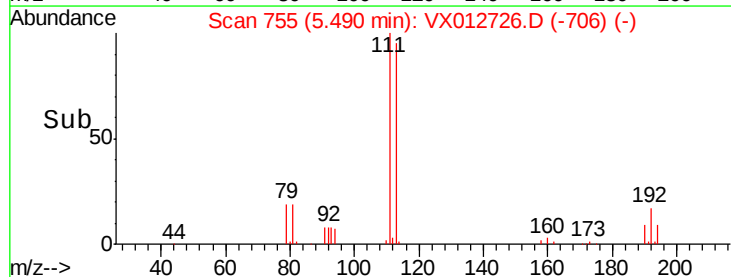
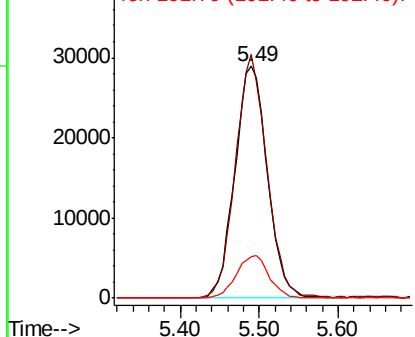


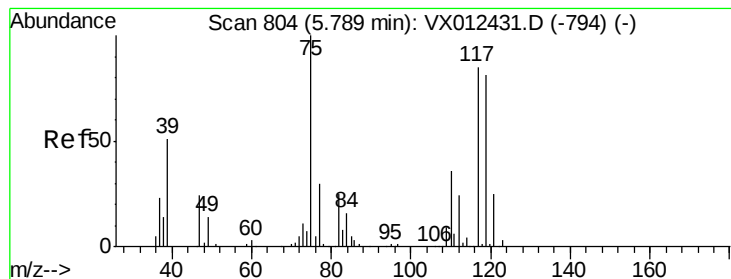
#35
 Dibromofluoromethane
 Concen: 50.938 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012726.D
 Acq: 01 Oct 2019 12:31

Tgt Ion:113 Resp: 83367
 Ion Ratio Lower Upper
 113 100
 111 100.9 83.4 125.2
 192 18.4 14.4 21.6



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: 5.241 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

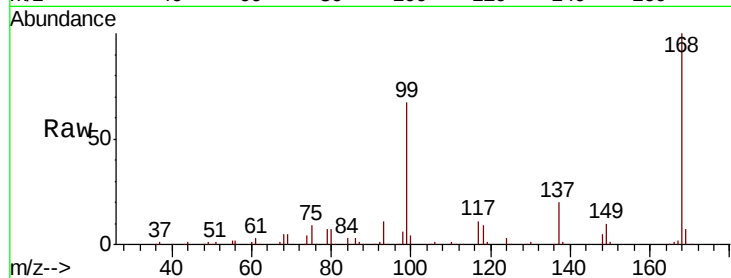
Tot Ion: 75 Resp: 13883

Ion Ratio Lower Upper

75 100

110 8.5 16.7 50.0#

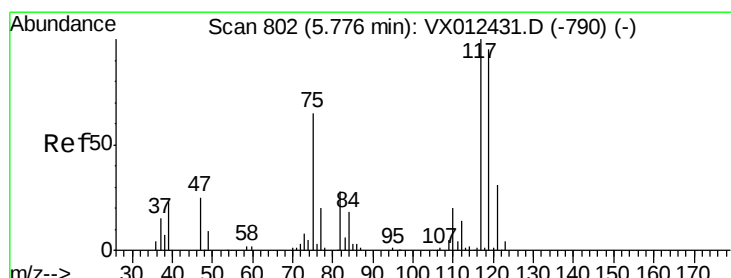
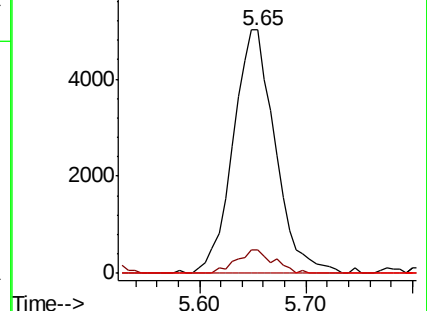
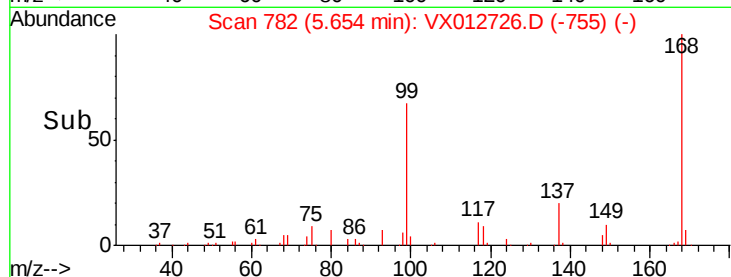
77 0.0 24.2 36.2#



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: 6.243 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

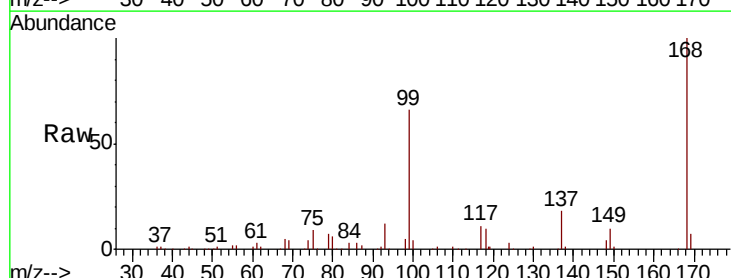
Tgt Ion: 117 Resp: 16798

Ion Ratio Lower Upper

117 100

119 9.0 75.7 113.5#

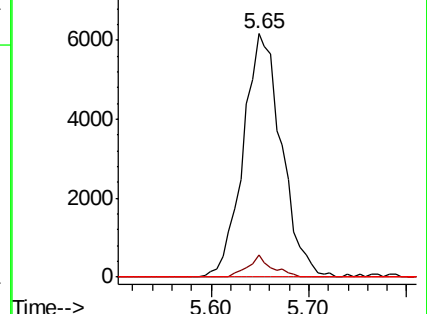
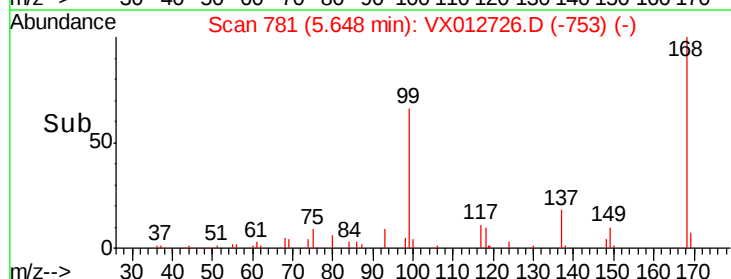
121 0.0 24.2 36.4#

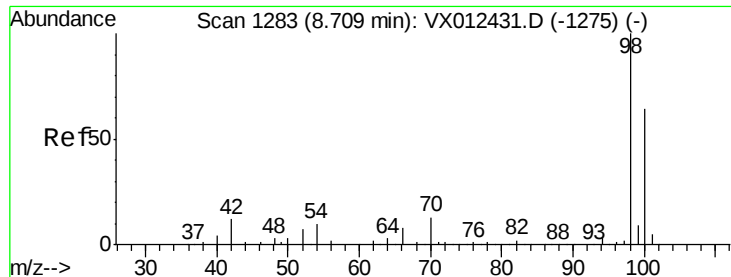


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

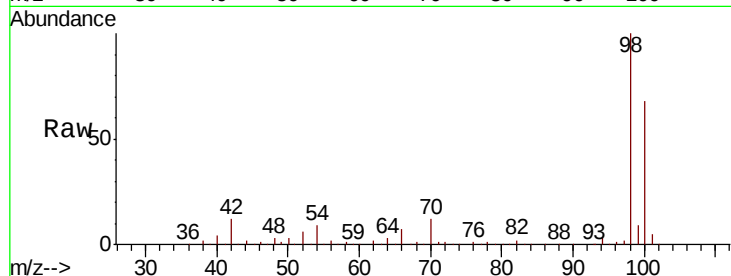




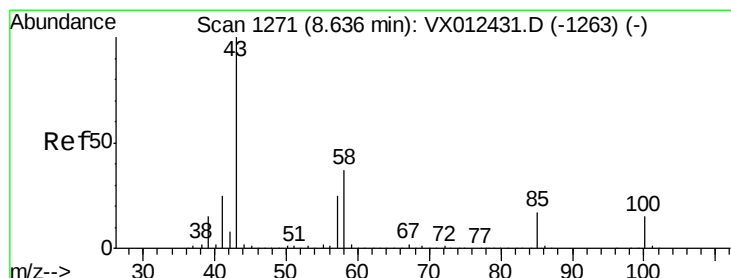
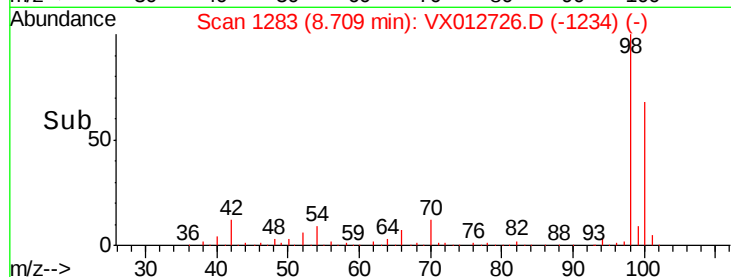
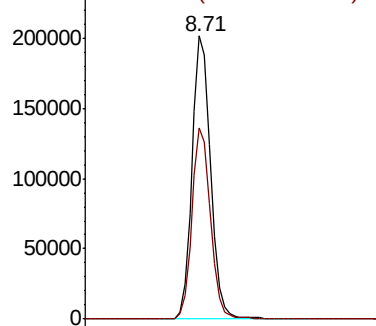
#50
Toluene-d8
Concen: 50.686 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 319462
Ion Ratio Lower Upper
98 100
100 67.6 53.4 80.2

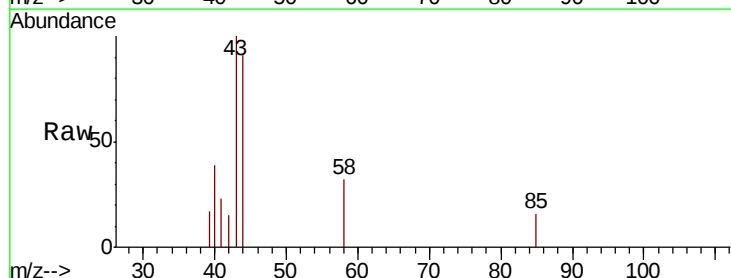


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX

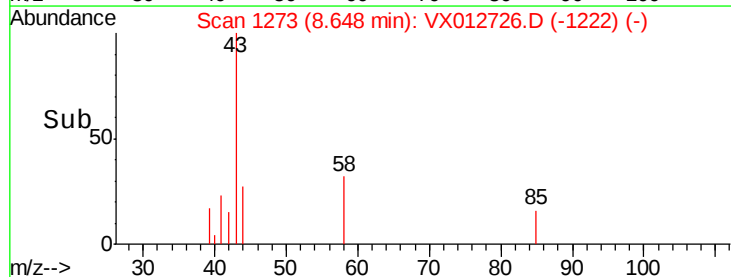
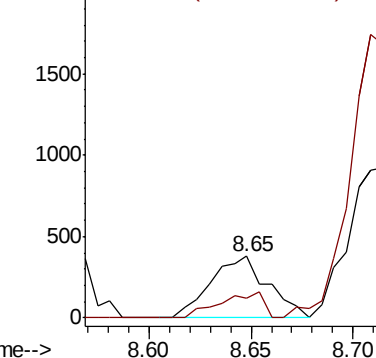


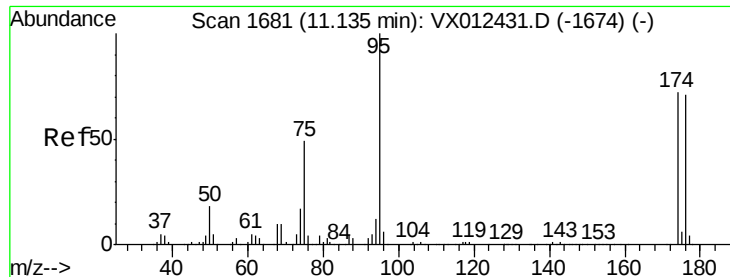
#51
4-Methyl-2-Pentanone
Concen: 0.231 ug/l
RT: 8.65 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

Tgt Ion: 43 Resp: 738
Ion Ratio Lower Upper
43 100
58 31.6 29.8 44.6



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





#62

4-Bromofluorobenzene

Concen: 40.966 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

ClientSampled :

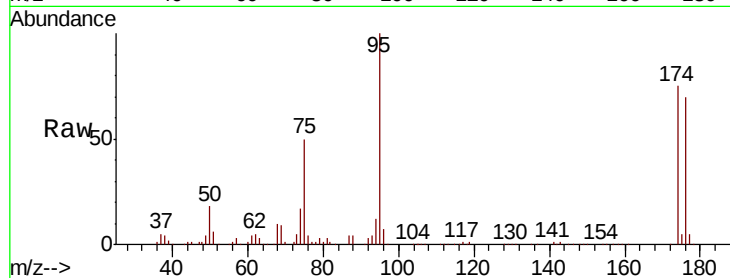
Tot Ion: 95 Resp: 101525

Ion Ratio Lower Upper

95 100

174 71.0 0.0 140.0

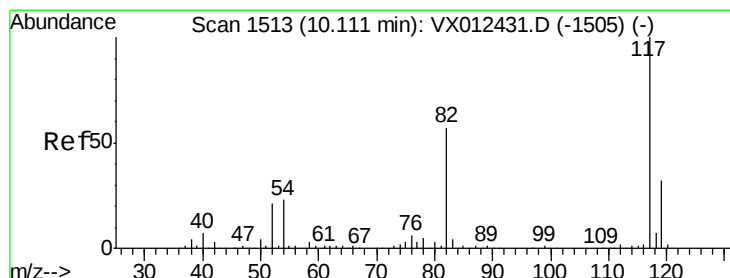
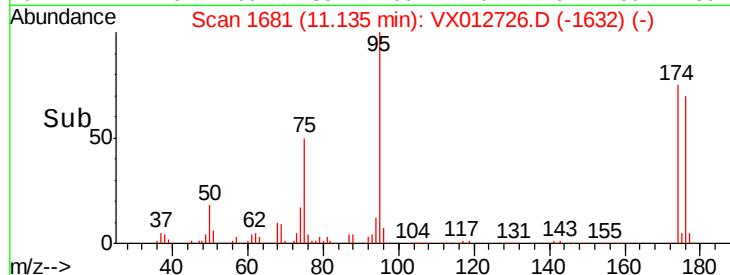
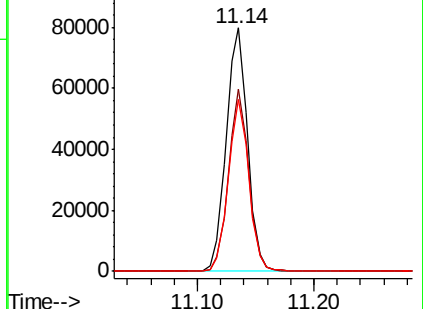
176 68.0 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012726.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012726.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012726.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

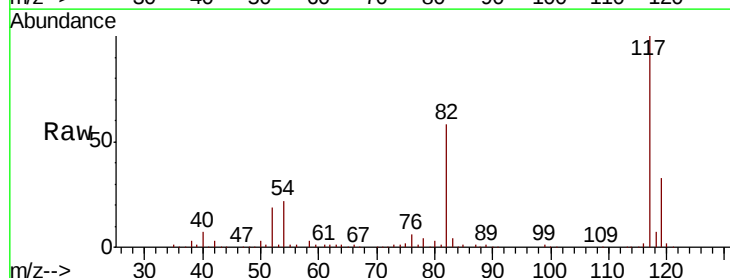
Tgt Ion: 117 Resp: 225440

Ion Ratio Lower Upper

117 100

82 58.1 45.9 68.9

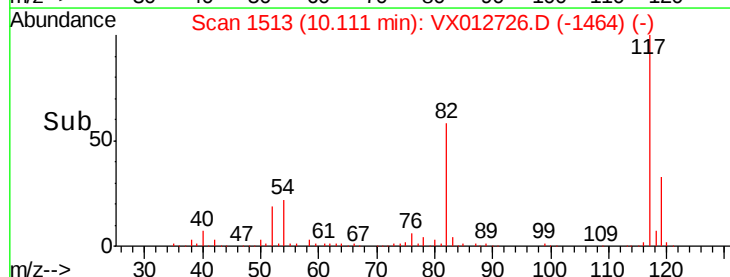
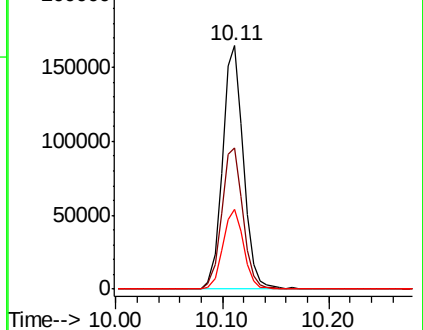
119 32.7 25.3 37.9

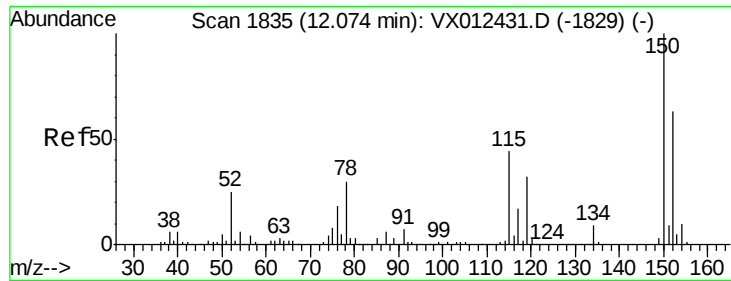


Abundance Ion 116.90 (116.60 to 117.60): VX012726.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012726.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012726.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

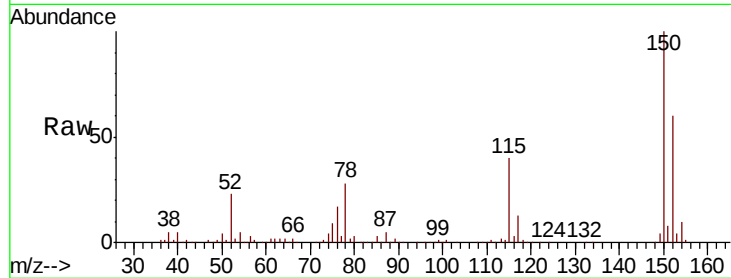
Tot Ion:152 Resp: 77276

Ion Ratio Lower Upper

152 100

115 65.1 44.1 132.3

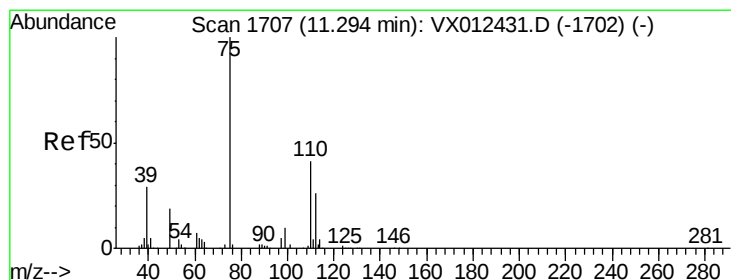
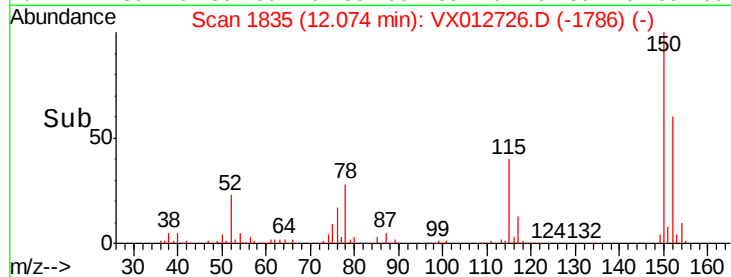
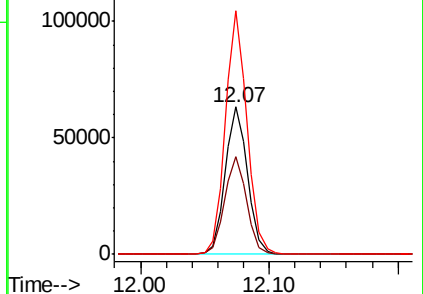
150 159.6 0.0 343.8



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: 25.830 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012726.D

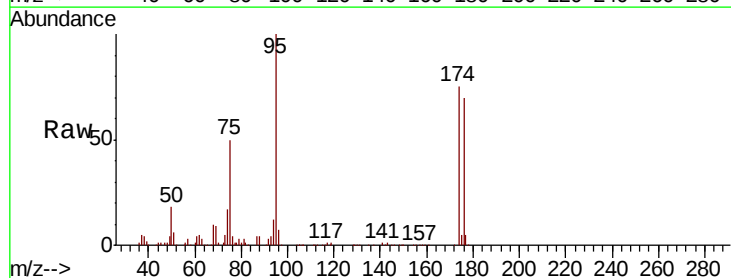
Acq: 01 Oct 2019 12:31

Tgt Ion: 75 Resp: 52801

Ion Ratio Lower Upper

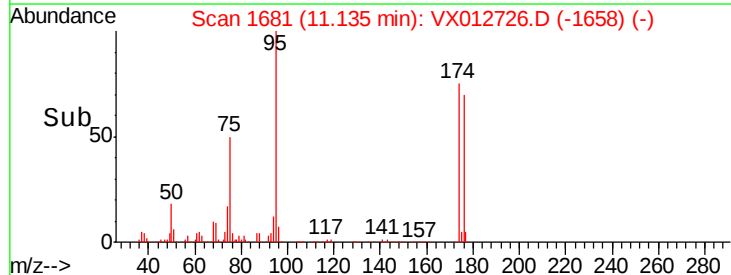
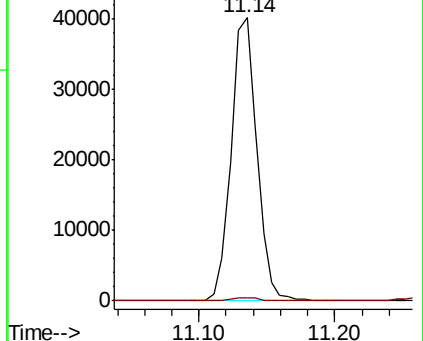
75 100

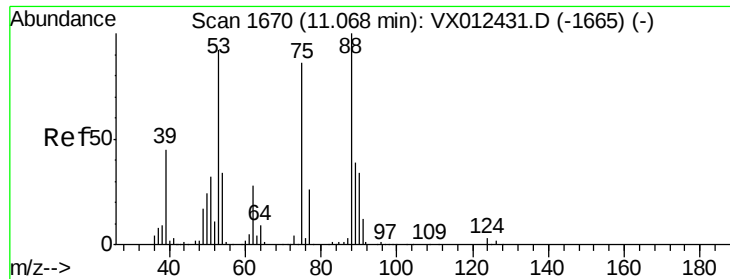
77 1.2 19.7 59.0#



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: 74.024 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

Instrument :

MSVOA_X

ClientSampleId :

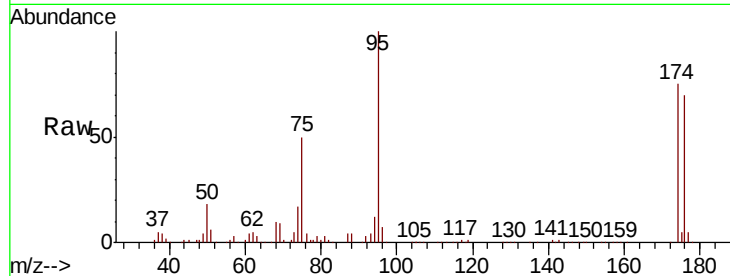
Tot Ion: 75 Resp: 52801

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

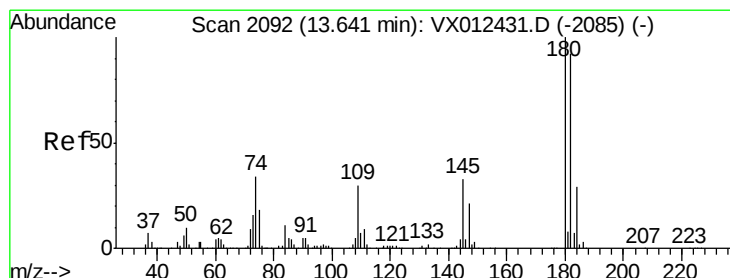
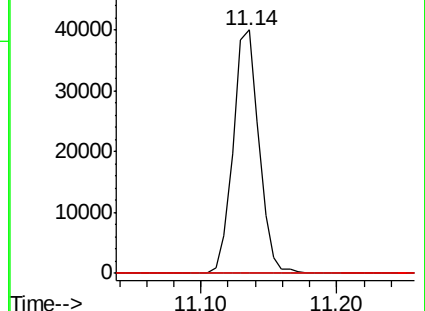
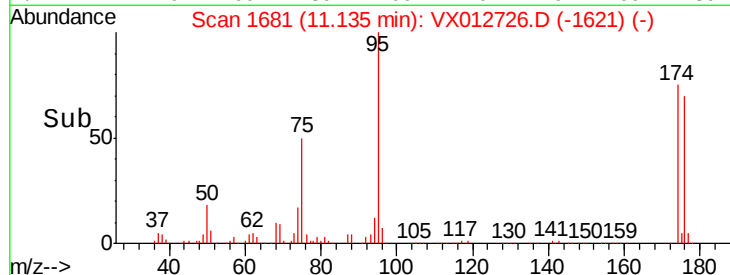
89 0.0 36.3 54.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.372 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX012726.D

Acq: 01 Oct 2019 12:31

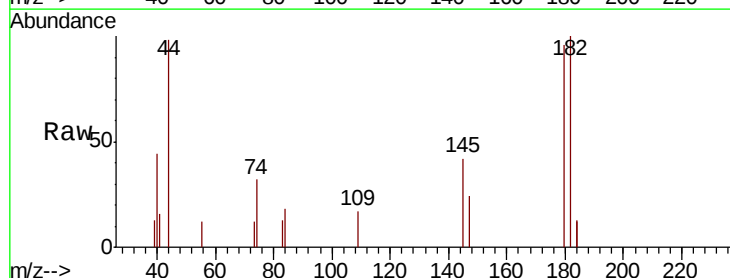
Tgt Ion: 180 Resp: 582

Ion Ratio Lower Upper

180 100

182 104.3 47.0 141.0

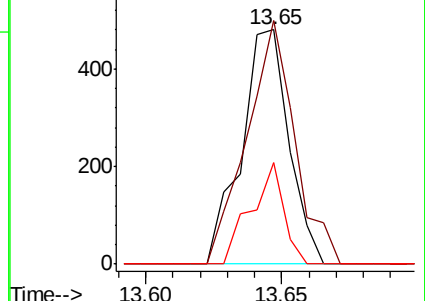
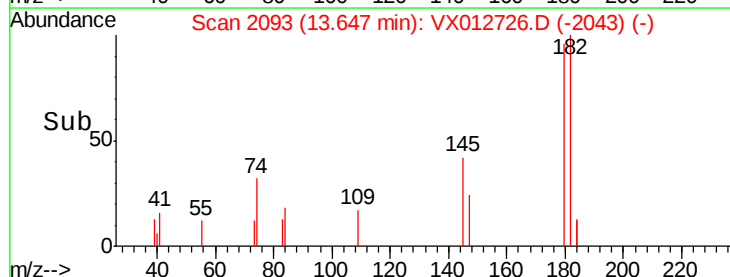
145 29.7 16.8 50.4

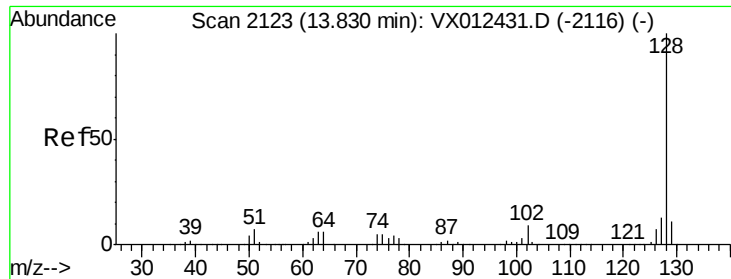


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

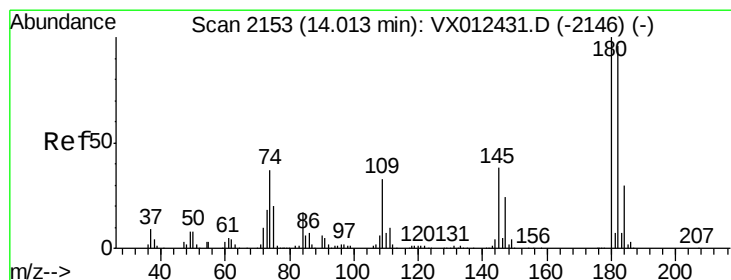
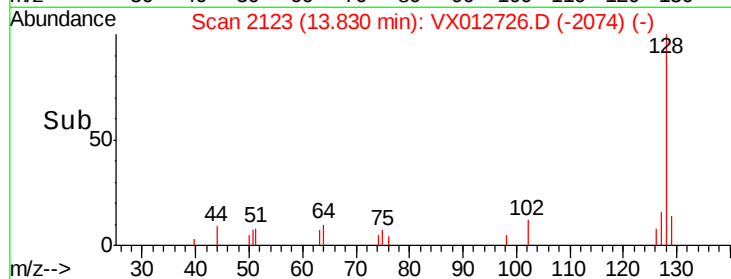
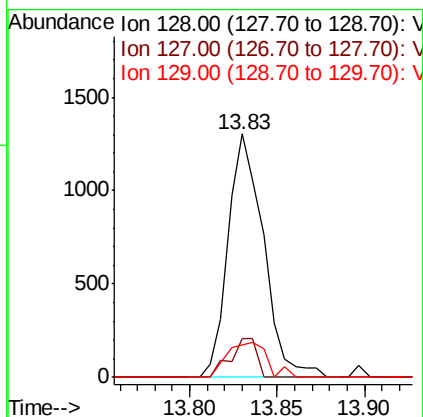
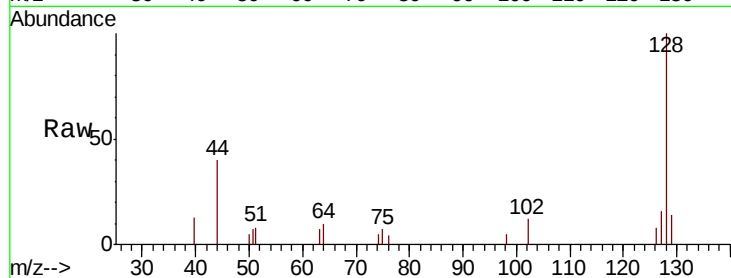




#95
Naphthalene
Concen: 0.325 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 1840
Ion Ratio Lower Upper
128 100
127 11.8 10.2 15.4
129 16.1 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.347 ug/l
RT: 14.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VX012726.D
Acq: 01 Oct 2019 12:31

Tgt Ion:180 Resp: 544
Ion Ratio Lower Upper
180 100
182 91.4 47.1 141.3
145 27.6 18.0 54.0

