

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092019\
 Data File : VX012581.D
 Acq On : 21 Sep 2019 01:19
 Operator : JC/SP
 Sample : K4956-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0553

Quant Time: Sep 21 04:02:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	176952	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	281107	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	237142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	92119	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117711	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
35) Dibromofluoromethane	5.49	113	84517	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
50) Toluene-d8	8.71	98	322475	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
62) 4-Bromofluorobenzene	11.14	95	113386	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	

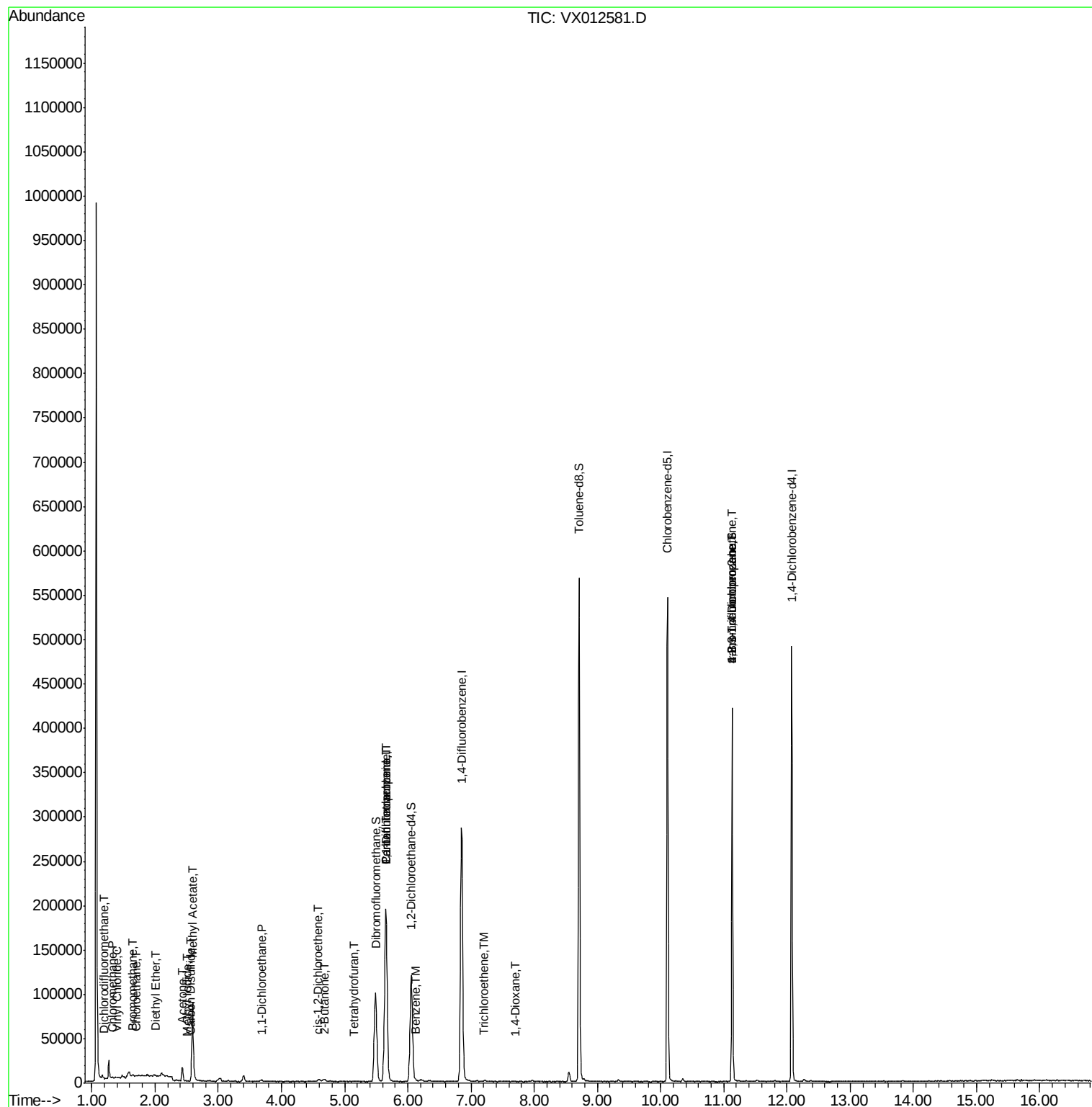
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	66	0.447	ug/l #	43
3) Chloromethane	1.32	50	540	0.555	ug/l #	52
4) Vinyl Chloride	1.40	62	256	0.243	ug/l #	44
5) Bromomethane	1.64	94	340	0.823	ug/l #	21
6) Chloroethane	1.70	64	418	0.508	ug/l #	45
8) Diethyl Ether	2.00	74	183	0.210	ug/l	97
10) Methyl Iodide	2.51	142	221	4.610	ug/l #	35
11) Tert butyl alcohol	3.03	59	3758	Below Cal		96
13) Acrolein	2.30	56	146	Below Cal	#	52
16) Acetone	2.43	43	16267	6.277	ug/l	96
17) Carbon Disulfide	2.56	76	459	2.088	ug/l #	75
18) Methyl Acetate	2.59	43	24203	9.159	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	1635	0.563	ug/l #	92
25) 2-Butanone	4.68	43	2491	1.416	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	1341	0.777	ug/l	55
29) Tetrahydrofuran	5.14	42	360	0.370	ug/l #	43
36) 1,1-Dichloropropene	5.65	75	14383	8.419	ug/l #	54
38) Carbon Tetrachloride	5.65	117	18973	8.929	ug/l #	16
40) Benzene	6.12	78	1114	0.205	ug/l #	77
44) Trichloroethene	7.22	130	589	0.412	ug/l	67
49) 1,4-Dioxane	7.69	88	21	0.389	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	58297	27.550	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	58297	74.048	ug/l #	8

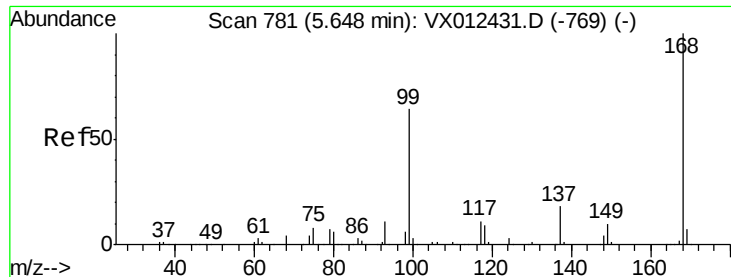
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

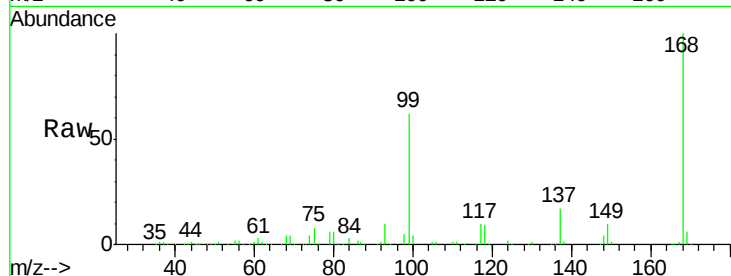
S49-0553

Tot Ion:168 Resp: 176952

Ion Ratio Lower Upper

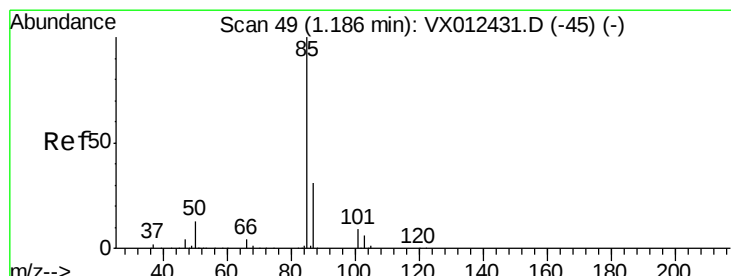
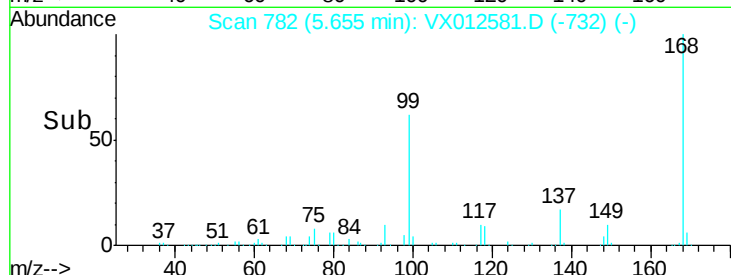
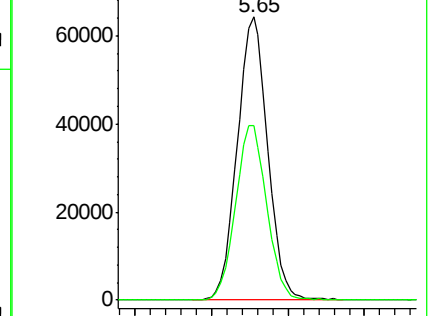
168 100

99 61.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.447 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX012581.D

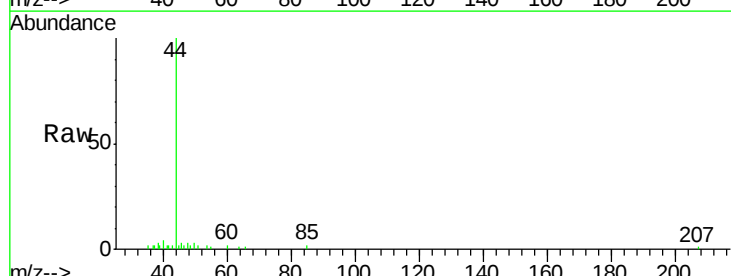
Acq: 21 Sep 2019 01:19

Tgt Ion: 85 Resp: 66

Ion Ratio Lower Upper

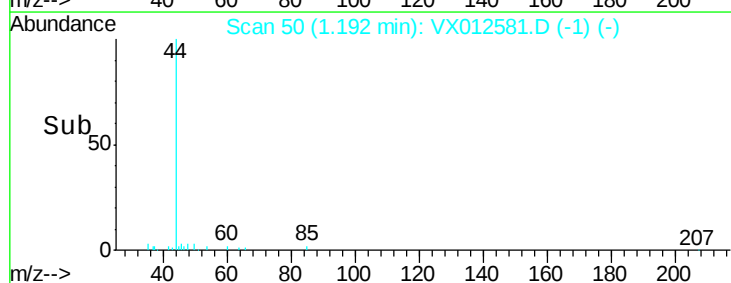
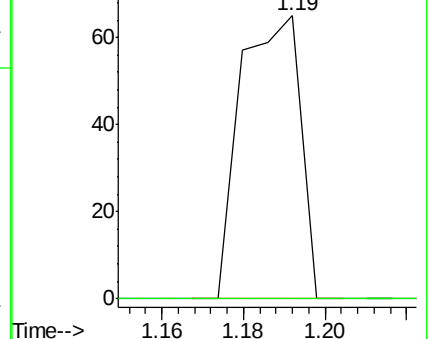
85 100

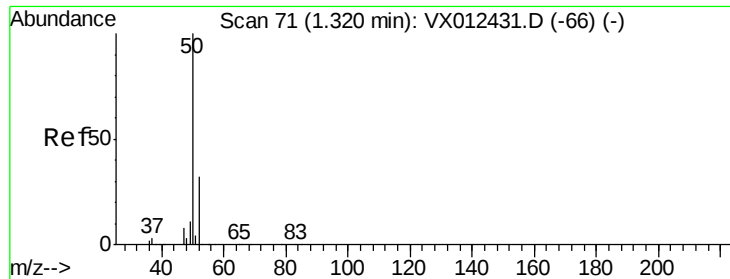
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.555 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

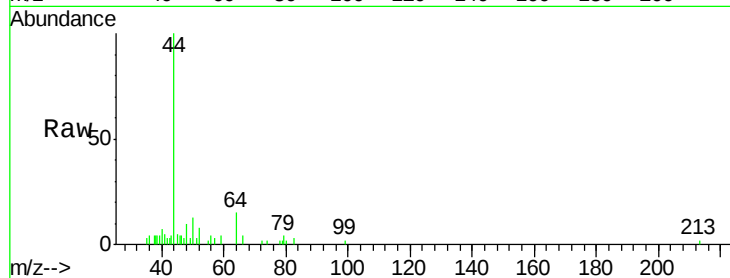
S49-0553

Tot Ion: 50 Resp: 540

Ion Ratio Lower Upper

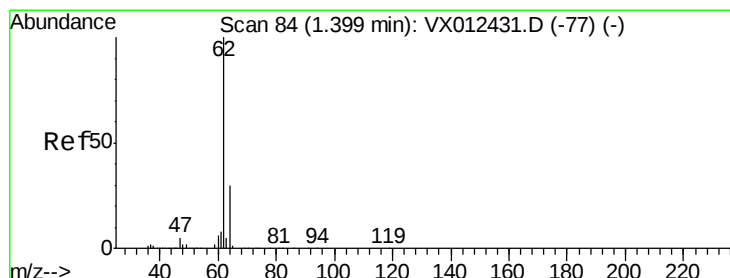
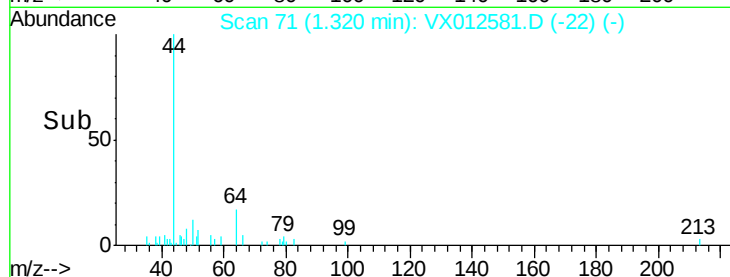
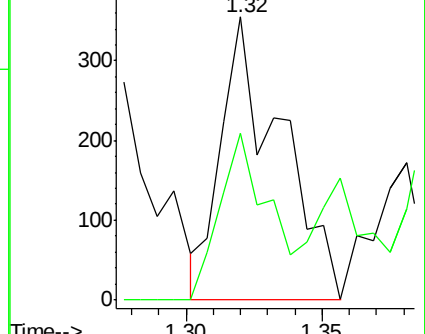
50 100

52 58.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.243 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012581.D

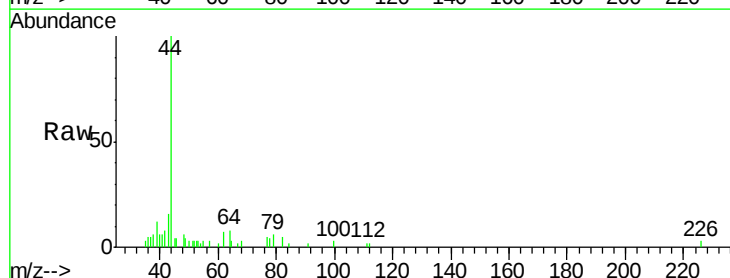
Acq: 21 Sep 2019 01:19

Tgt Ion: 62 Resp: 256

Ion Ratio Lower Upper

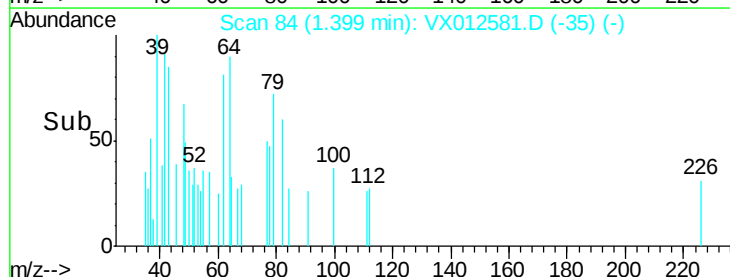
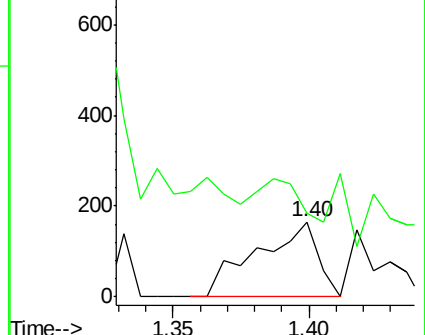
62 100

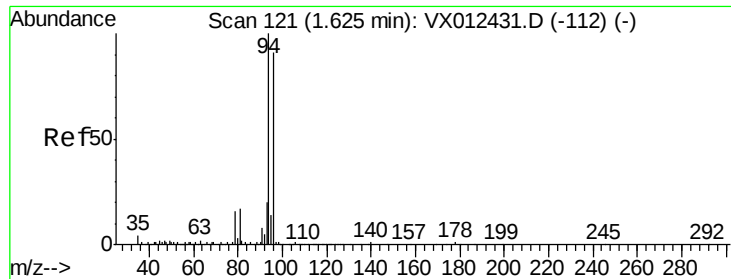
64 0.0 24.2 36.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.823 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampled :

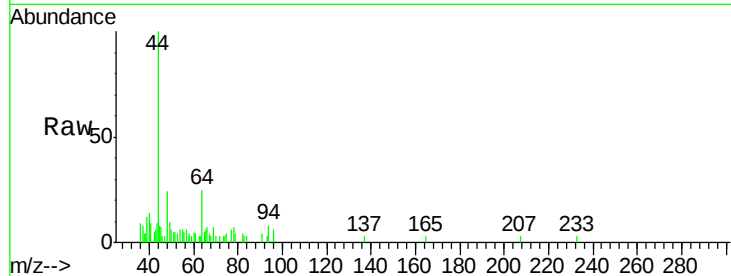
S49-0553

Tot Ion: 94 Resp: 340

Ion Ratio Lower Upper

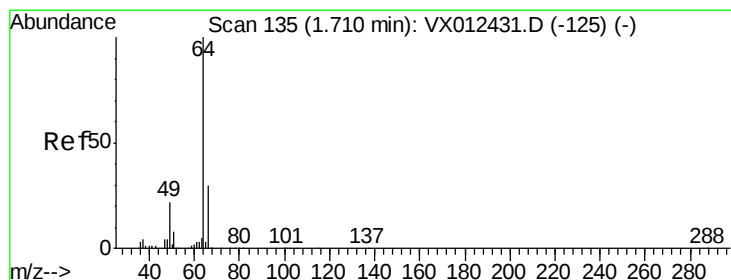
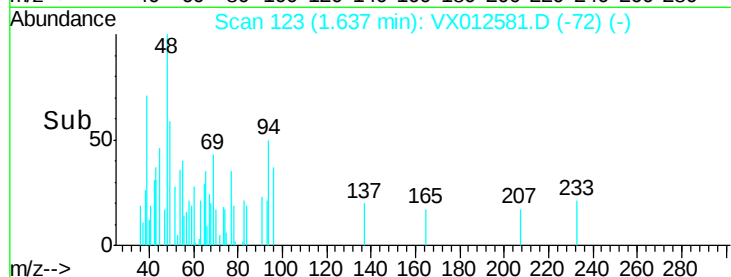
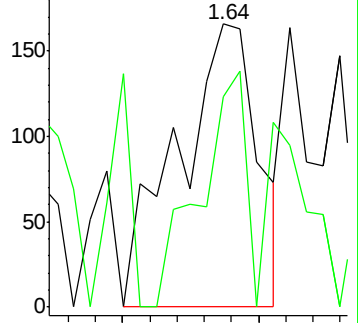
94 100

96 16.1 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: 0.508 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX012581.D

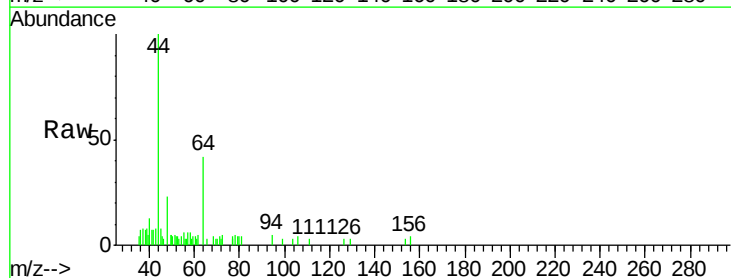
Acq: 21 Sep 2019 01:19

Tgt Ion: 64 Resp: 418

Ion Ratio Lower Upper

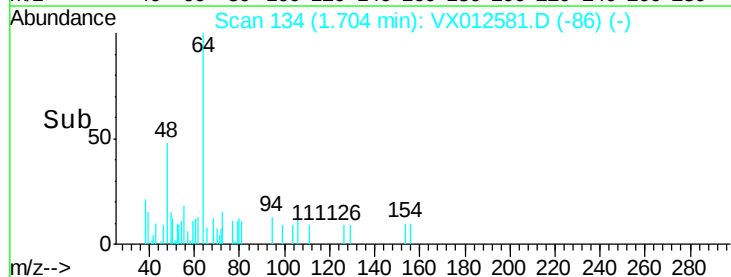
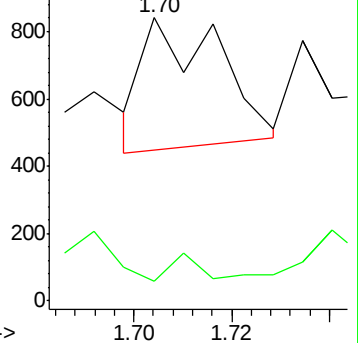
64 100

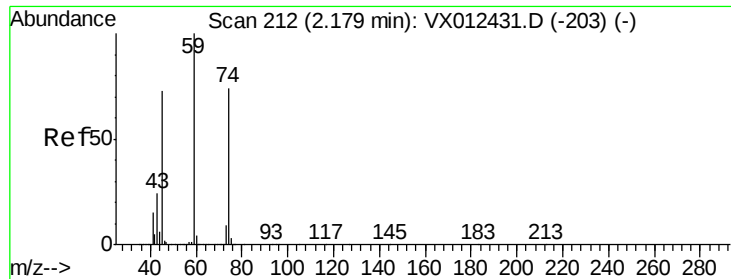
66 0.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.210 ug/l

RT: 2.00 min Scan# 183

Delta R.T. -0.18 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

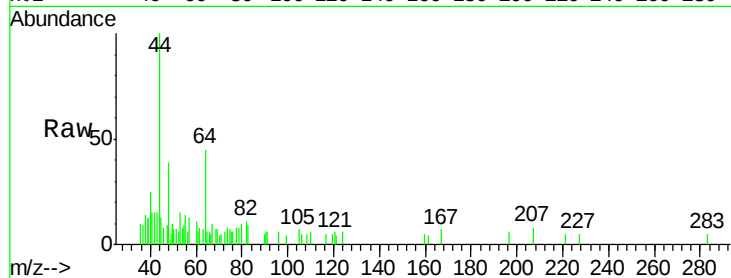
S49-0553

Tot Ion: 74 Resp: 183

Ion Ratio Lower Upper

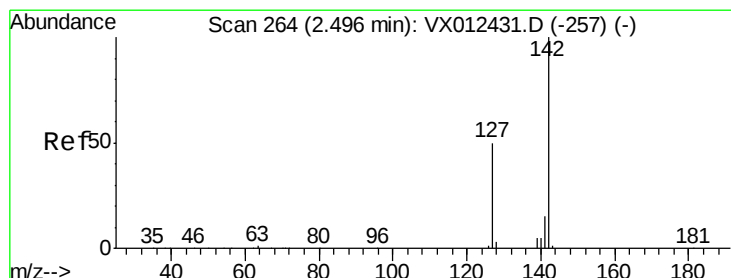
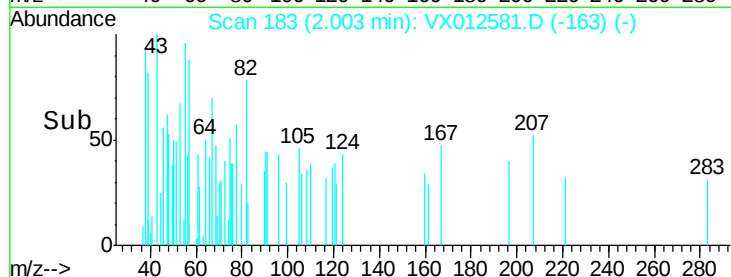
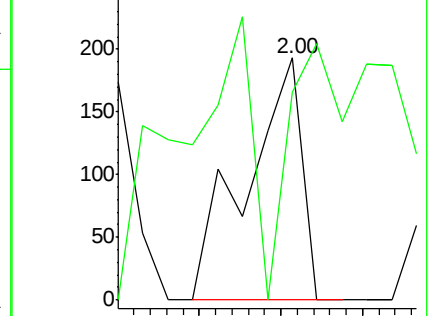
74 100

45 102.7 49.9 149.7



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 4.610 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

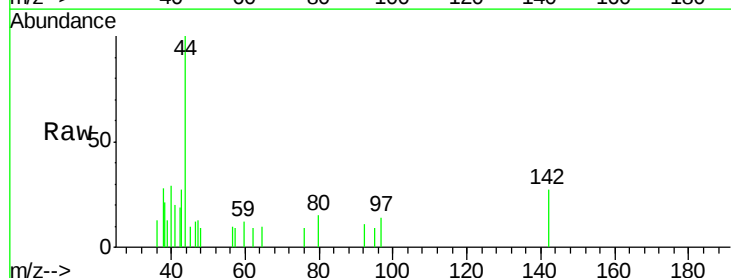
Tgt Ion: 142 Resp: 221

Ion Ratio Lower Upper

142 100

127 0.0 40.8 61.2#

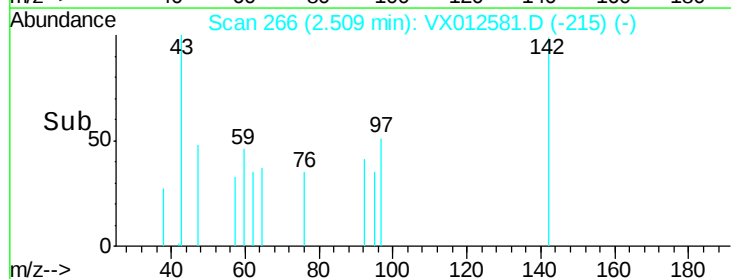
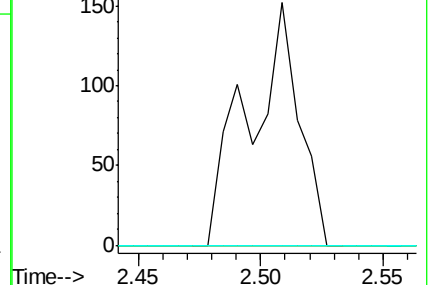
141 0.0 12.1 18.1#

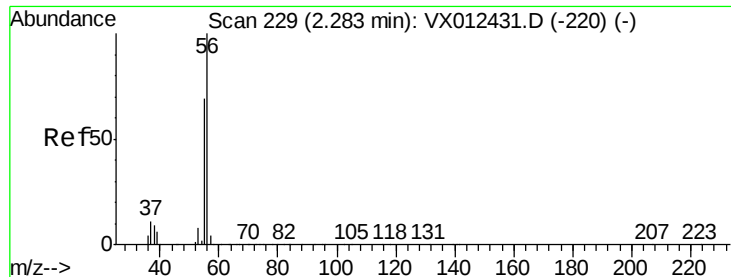


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

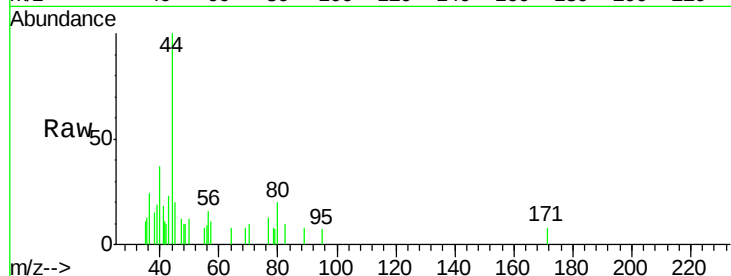
S49-0553

Tot Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 30.8 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.30

150

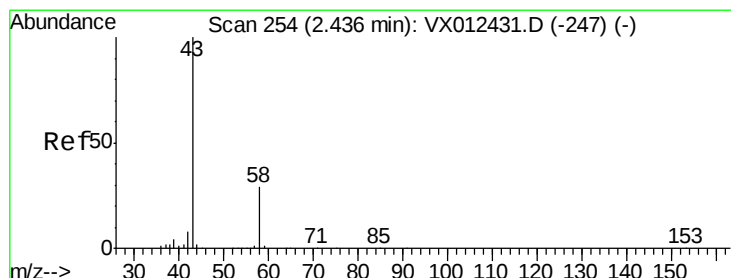
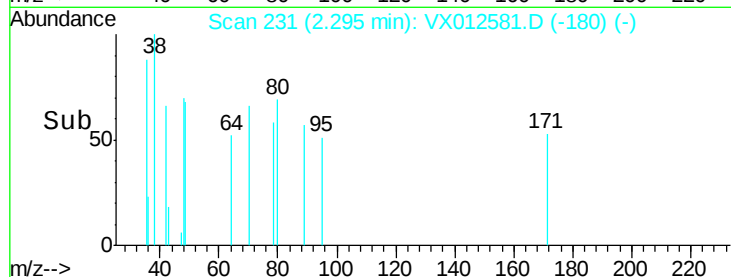
100

50

0

2.28 2.30 2.32

Time-->



#16

Acetone

Concen: 6.277 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012581.D

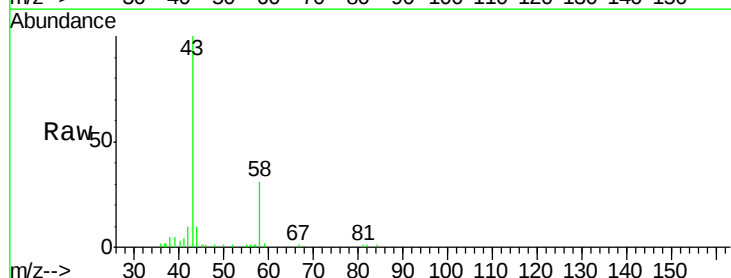
Acq: 21 Sep 2019 01:19

Tgt Ion: 43 Resp: 16267

Ion Ratio Lower Upper

43 100

58 31.0 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

8000

6000

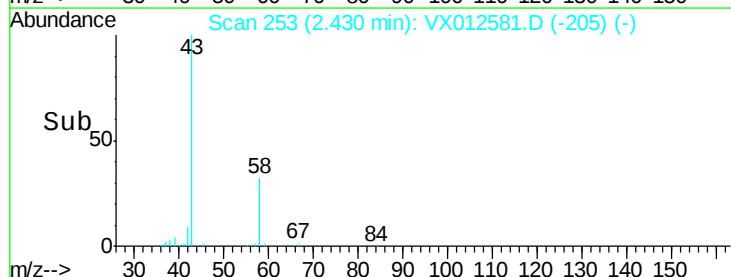
4000

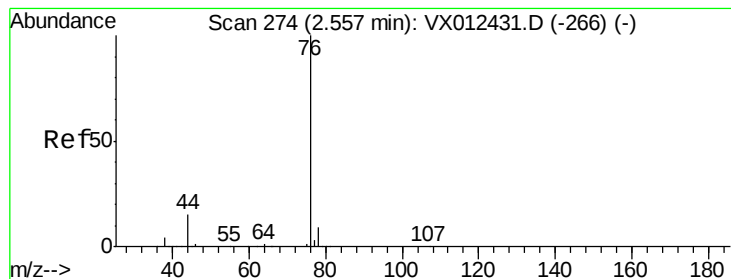
2000

0

2.35 2.40 2.45 2.50

Time-->





#17

Carbon Disulfide

Concen: 2.088 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

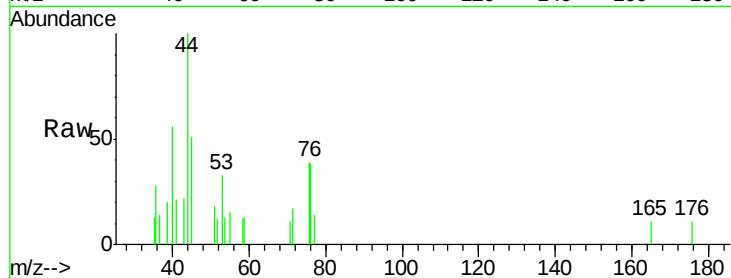
S49-0553

Tot Ion: 76 Resp: 459

Ion Ratio Lower Upper

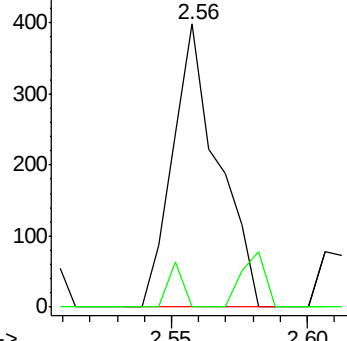
76 100

78 0.0 7.3 10.9#

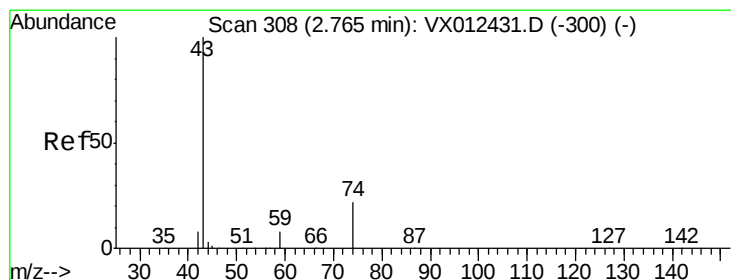
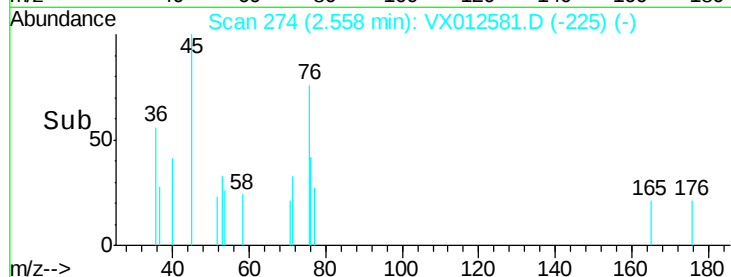


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#18

Methyl Acetate

Concen: 9.159 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012581.D

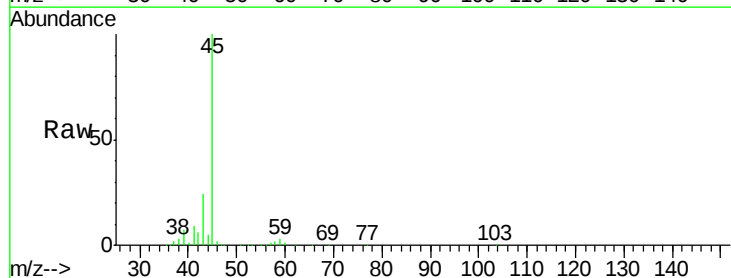
Acq: 21 Sep 2019 01:19

Tgt Ion: 43 Resp: 24203

Ion Ratio Lower Upper

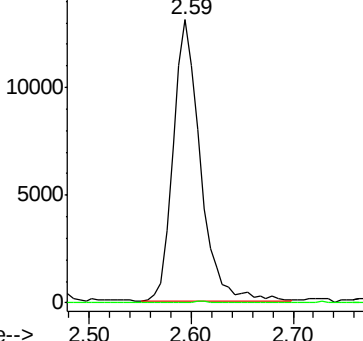
43 100

74 0.2 17.7 26.5#

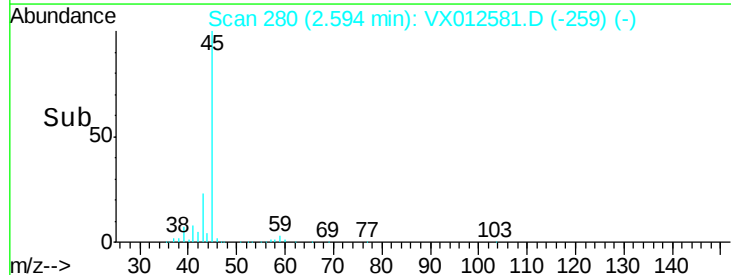


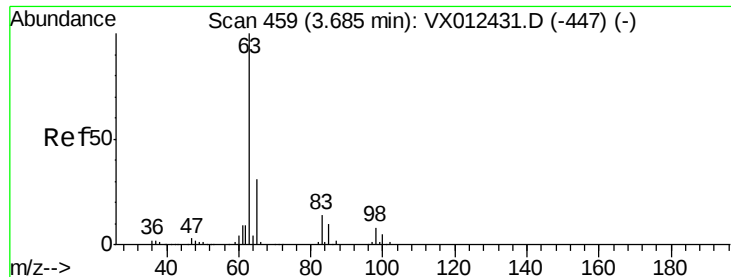
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->





#24

1,1-Dichloroethane

Concen: 0.563 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

S49-0553

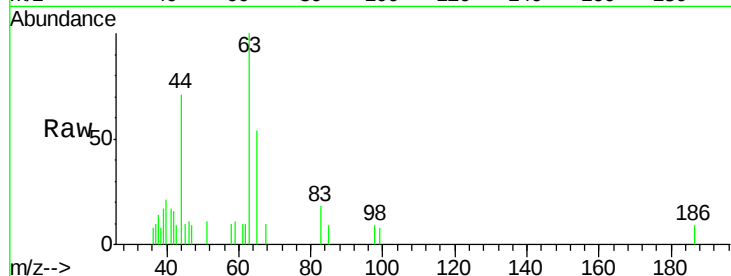
Tot Ion: 63 Resp: 1635

Ion Ratio Lower Upper

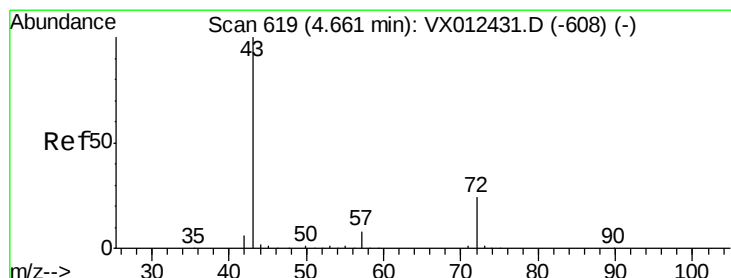
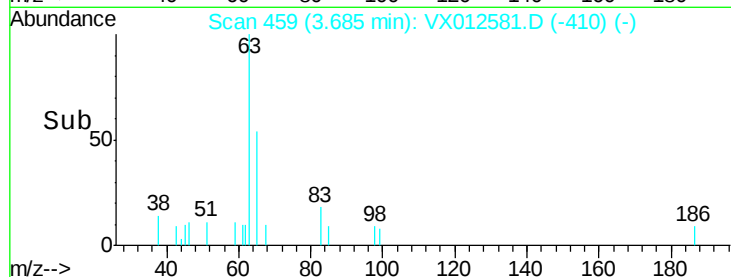
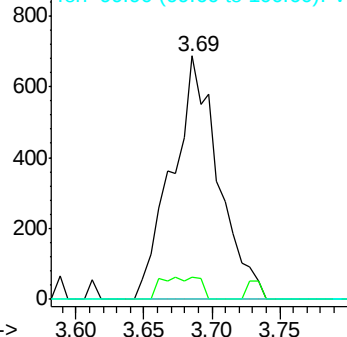
63 100

98 9.3 3.9 11.7

100 0.0 2.3 6.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 1.416 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX012581.D

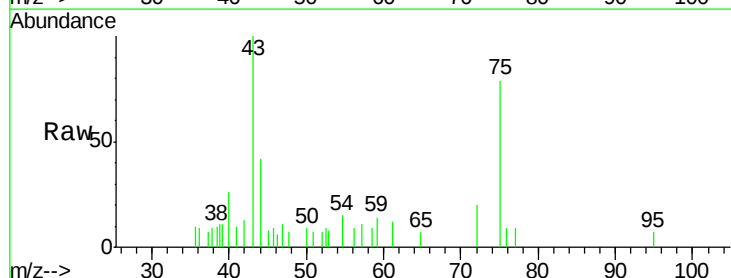
Acq: 21 Sep 2019 01:19

Tgt Ion: 43 Resp: 2491

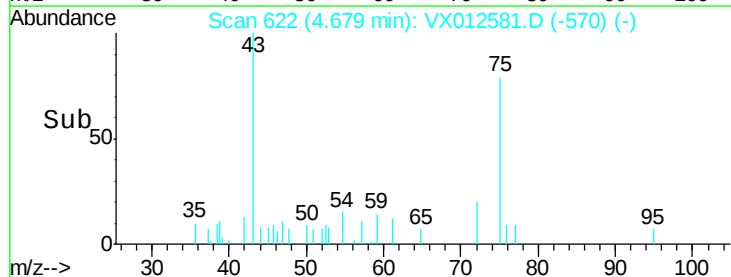
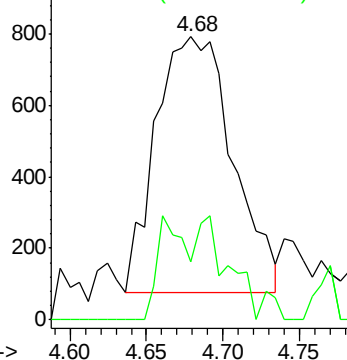
Ion Ratio Lower Upper

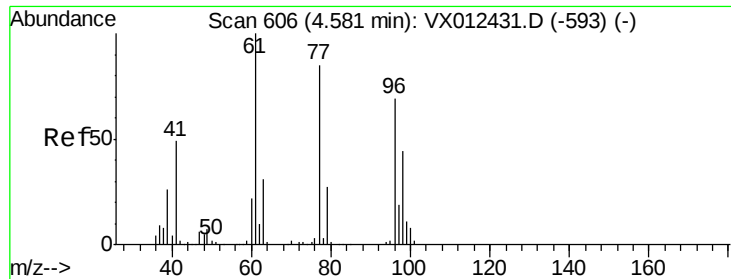
43 100

72 22.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



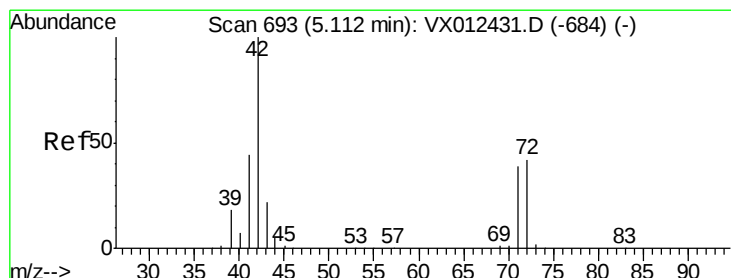
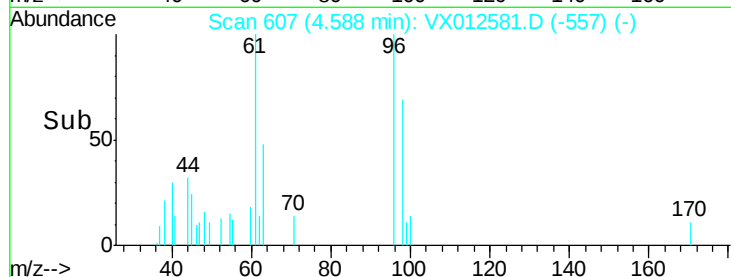
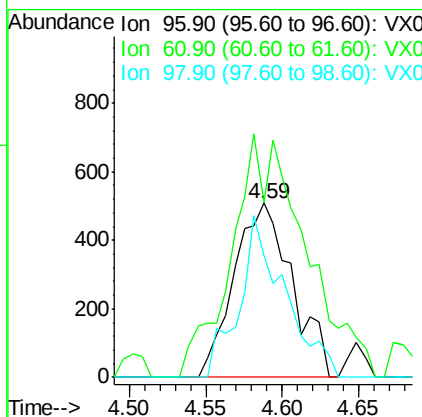
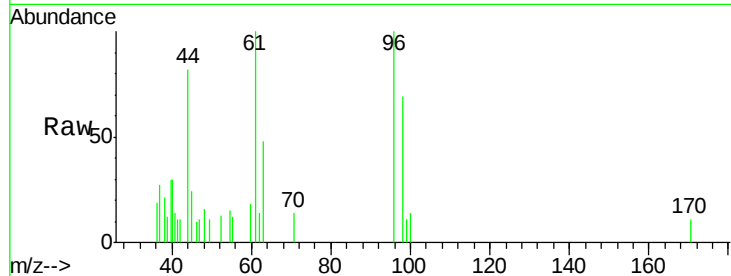


#27

cis-1,2-Dichloroethene
 Concen: 0.777 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX012581.D
 Acq: 21 Sep 2019 01:19

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0553

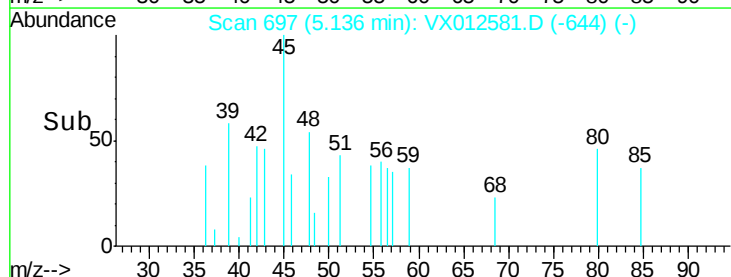
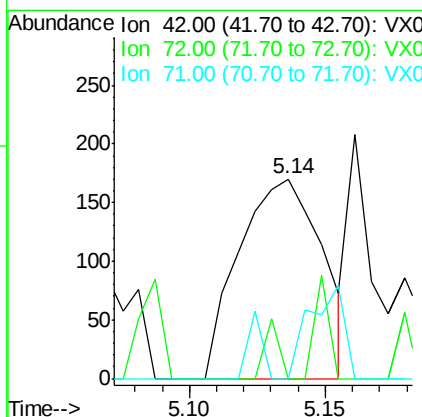
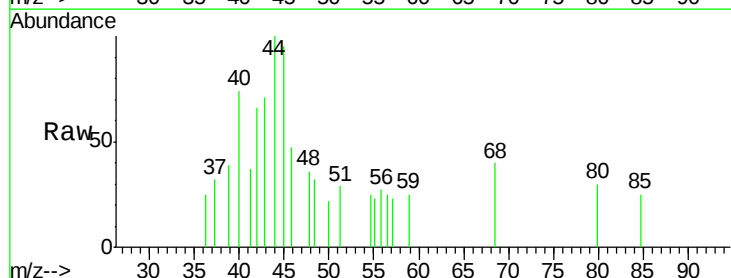
Tot Ion: 96 Resp: 1341
 Ion Ratio Lower Upper
 96 100
 61 81.7 0.0 319.4
 98 72.8 0.0 130.6

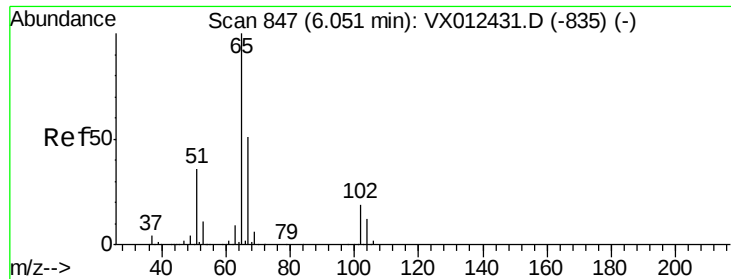


#29

Tetrahydrofuran
 Concen: 0.370 ug/l
 RT: 5.14 min Scan# 697
 Delta R.T. 0.02 min
 Lab File: VX012581.D
 Acq: 21 Sep 2019 01:19

Tgt Ion: 42 Resp: 360
 Ion Ratio Lower Upper
 42 100
 72 5.3 34.0 51.0#
 71 5.8 31.5 47.3#





#33

1,2-Dichloroethane-d4

Concen: 46.415 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

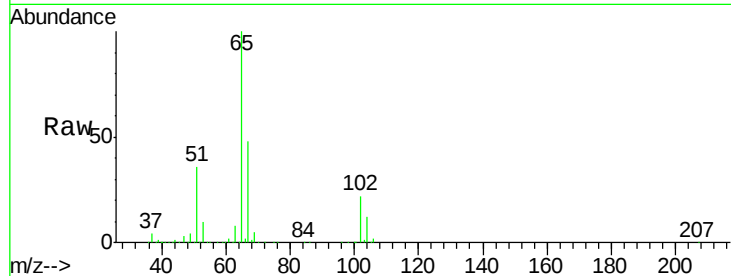
S49-0553

Tot Ion: 65 Resp: 117711

Ion Ratio Lower Upper

65 100

67 51.2 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

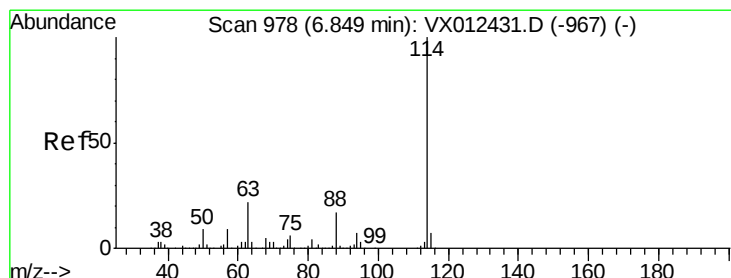
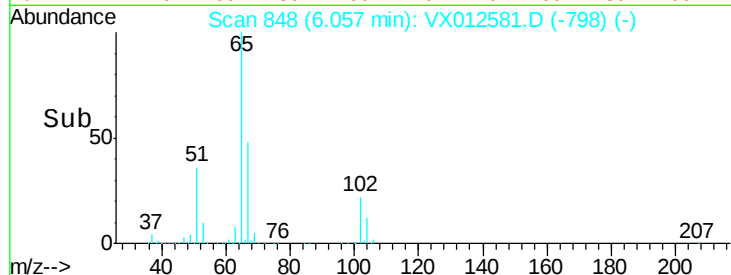
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

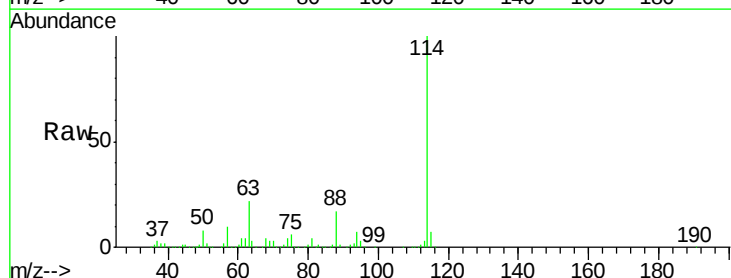
Tgt Ion: 114 Resp: 281107

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 16.7 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

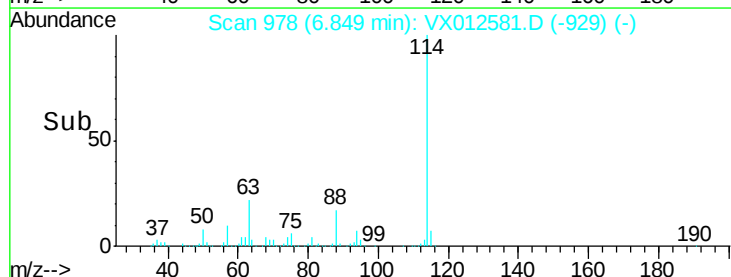
150000

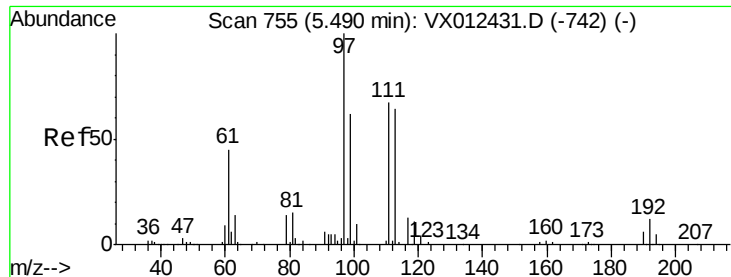
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.674 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampleId :

S49-0553

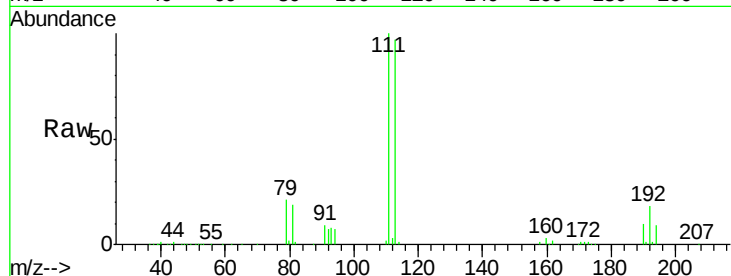
Tot Ion:113 Resp: 84517

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

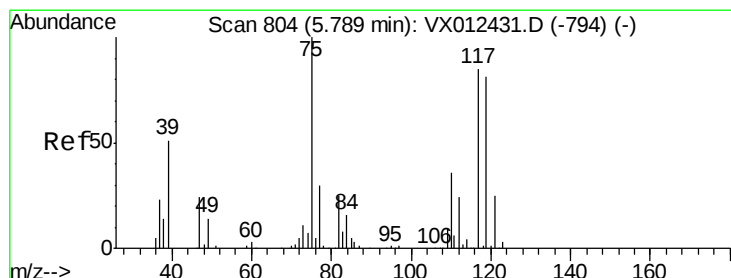
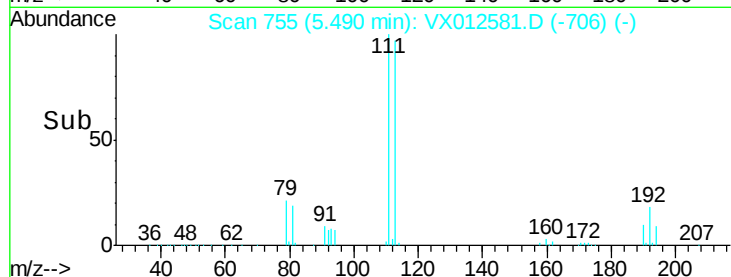
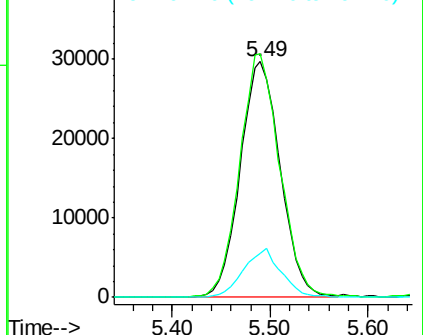
192 19.4 14.4 21.6



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: 8.419 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

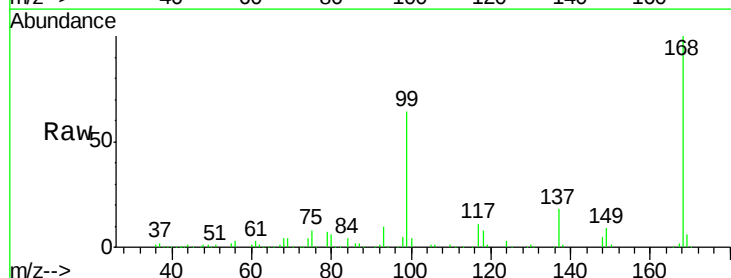
Tgt Ion: 75 Resp: 14383

Ion Ratio Lower Upper

75 100

110 11.4 16.7 50.0#

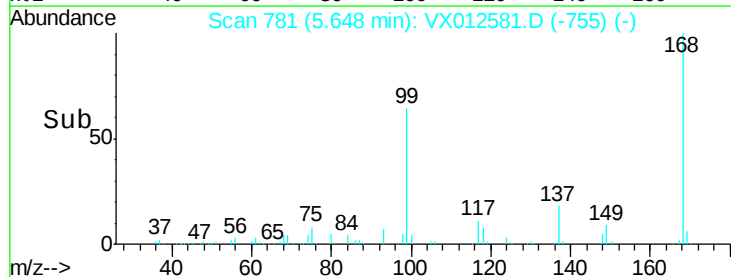
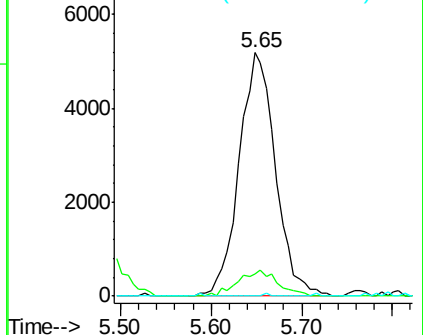
77 0.2 24.2 36.2#

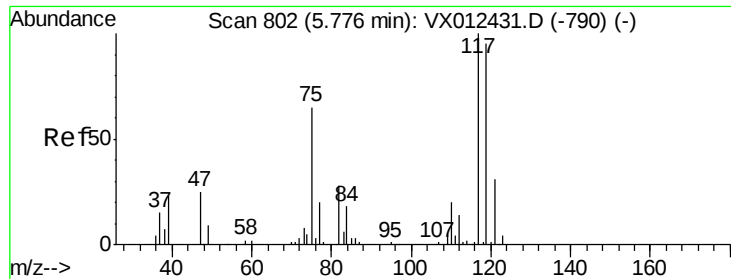


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

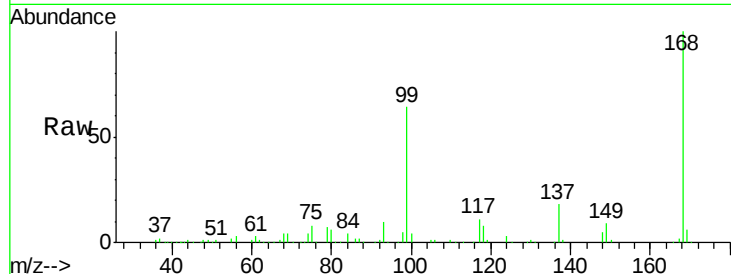




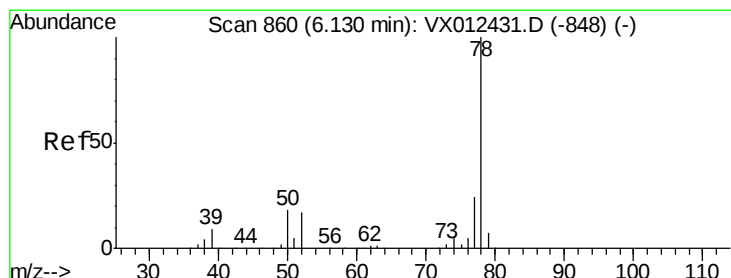
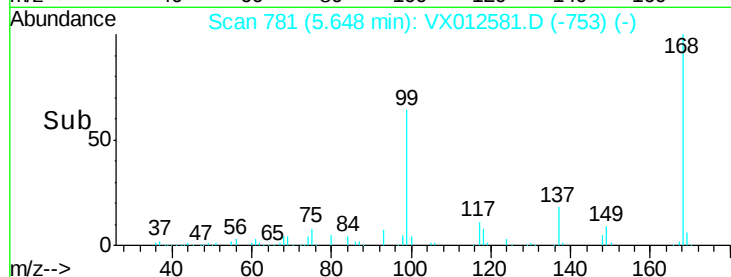
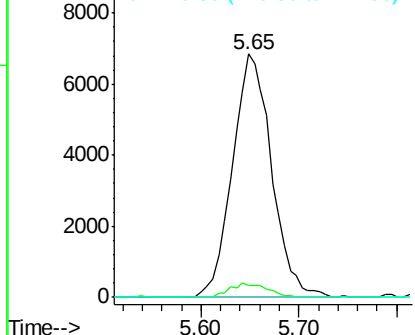
#38
Carbon Tetrachloride
Concen: 8.929 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012581.D
Acq: 21 Sep 2019 01:19

Instrument :
MSVOA_X
ClientSampleId :
S49-0553

Tot Ion:117 Resp: 18973
Ion Ratio Lower Upper
117 100
119 4.9 75.7 113.5#
121 0.0 24.2 36.4#

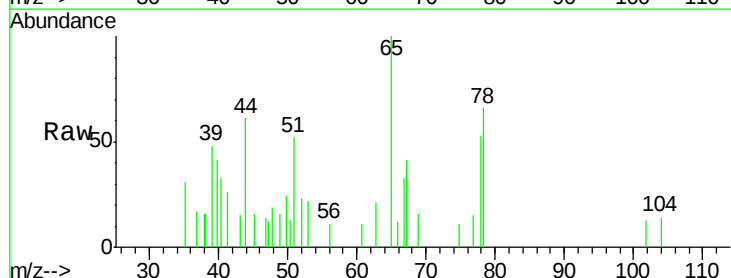


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

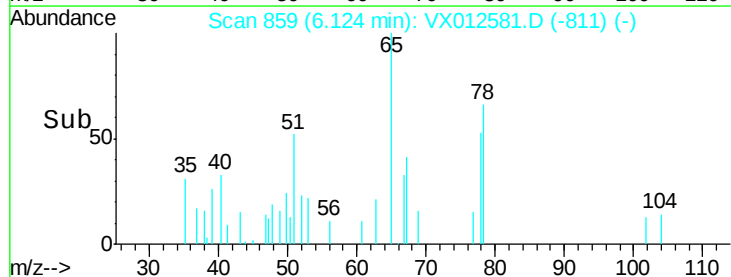
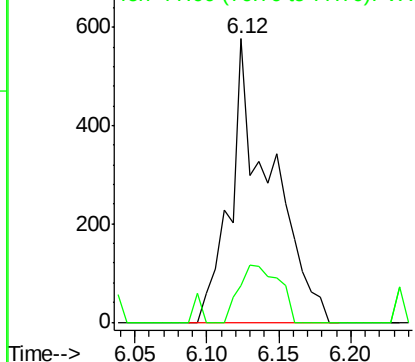


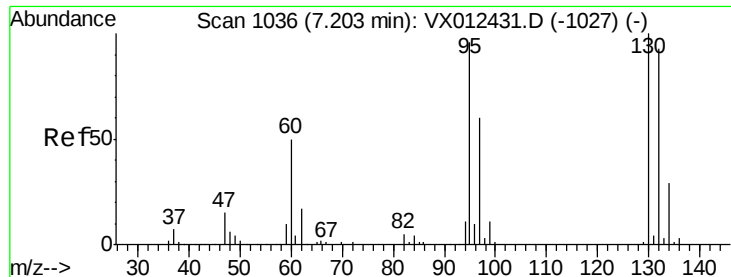
#40
Benzene
Concen: 0.205 ug/l
RT: 6.12 min Scan# 859
Delta R.T. -0.01 min
Lab File: VX012581.D
Acq: 21 Sep 2019 01:19

Tgt Ion: 78 Resp: 1114
Ion Ratio Lower Upper
78 100
77 12.8 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.412 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampled :

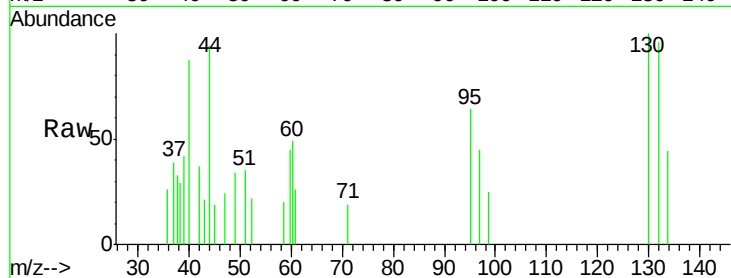
S49-0553

Tot Ion:130 Resp: 589

Ion Ratio Lower Upper

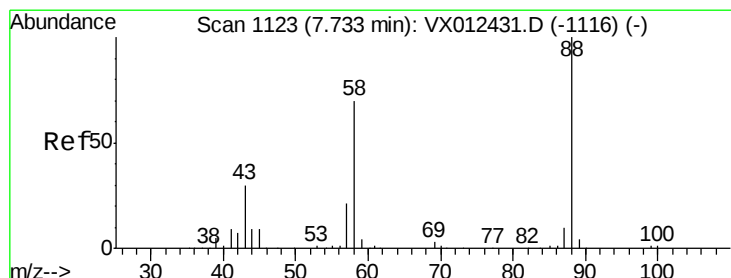
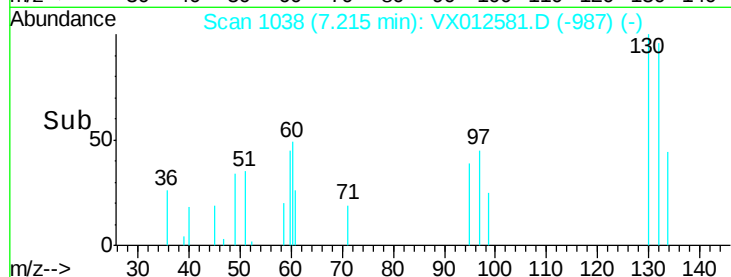
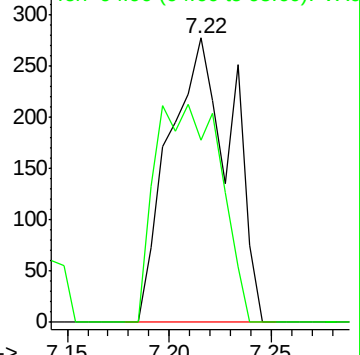
130 100

95 63.9 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.389 ug/l

RT: 7.69 min Scan# 1116

Delta R.T. -0.04 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

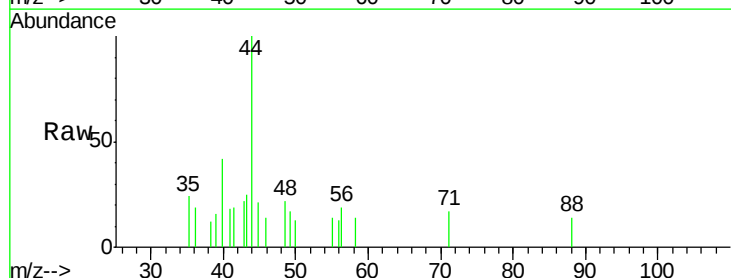
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 661.9 29.4 44.0#

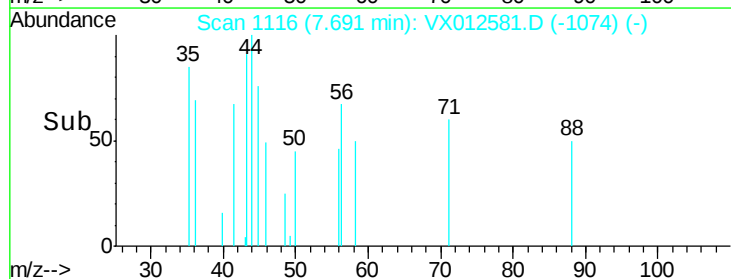
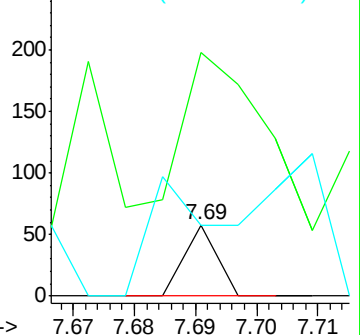
58 723.8 57.5 86.3#

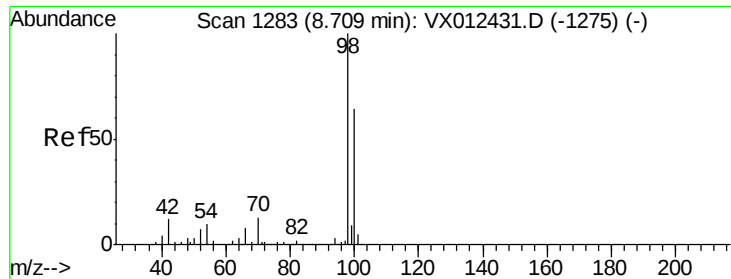


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

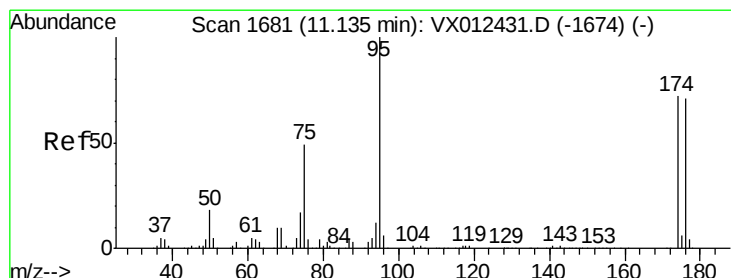
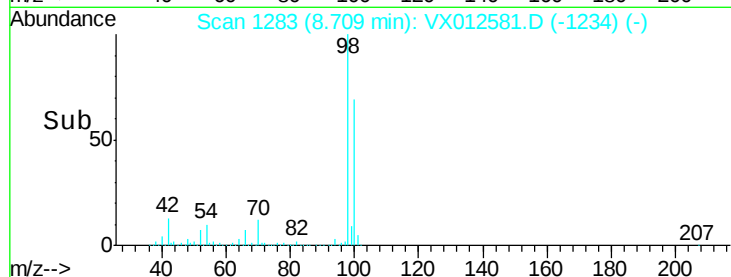
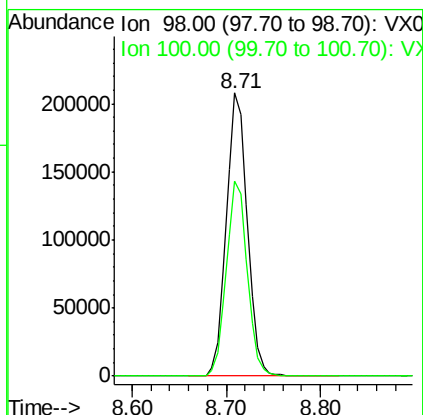
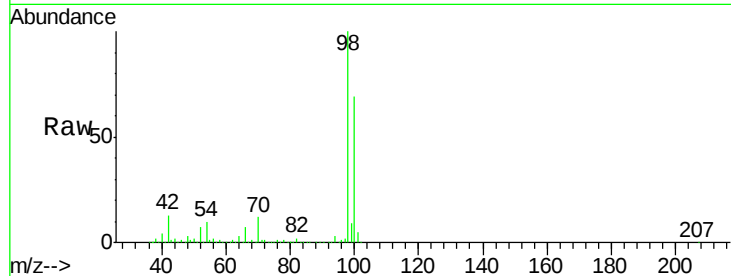




#50
Toluene-d8
Concen: 51.205 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012581.D
Acq: 21 Sep 2019 01:19

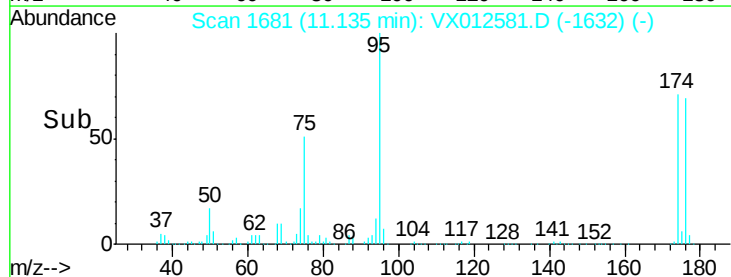
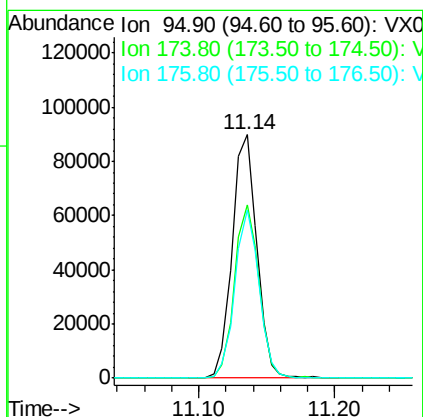
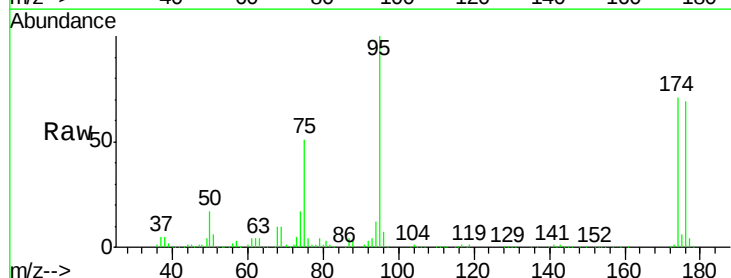
Instrument :
MSVOA_X
ClientSampleId :
S49-0553

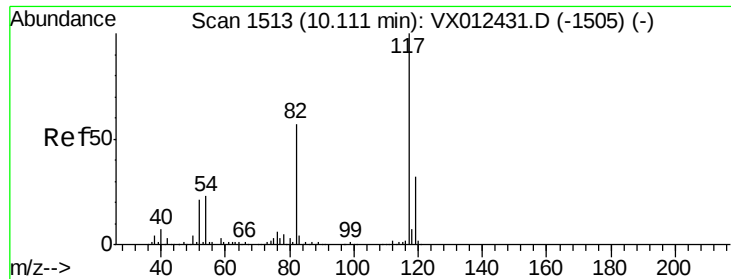
Tot Ion: 98 Resp: 322475
Ion Ratio Lower Upper
98 100
100 68.6 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 43.362 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012581.D
Acq: 21 Sep 2019 01:19

Tgt Ion: 95 Resp: 113386
Ion Ratio Lower Upper
95 100
174 70.7 0.0 140.0
176 67.8 0.0 135.4

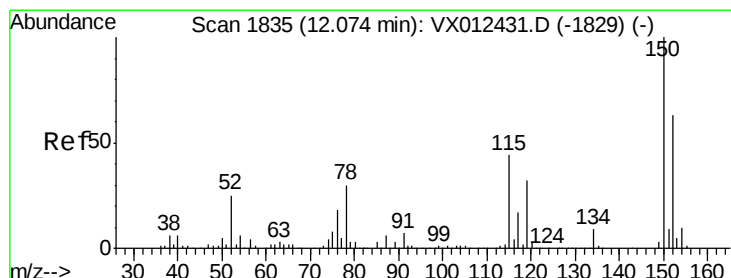
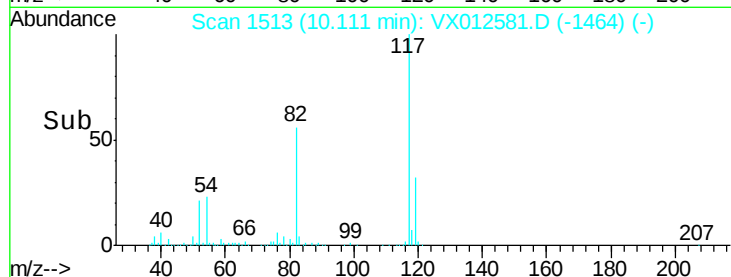
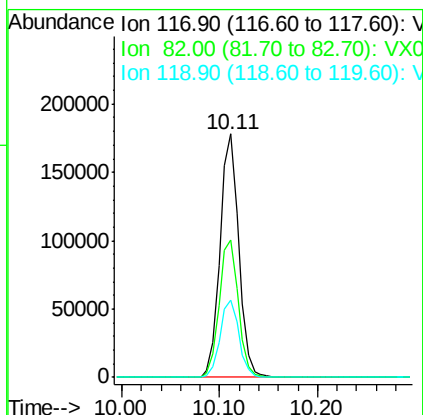
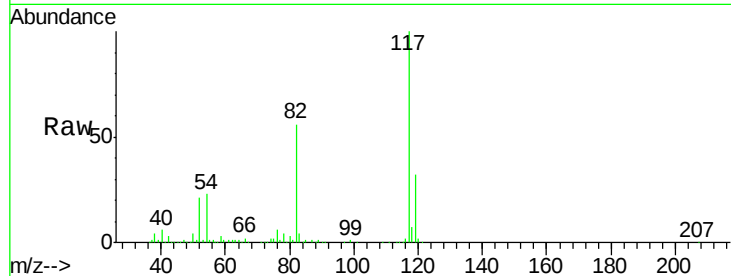




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012581.D
Acq: 21 Sep 2019 01:19

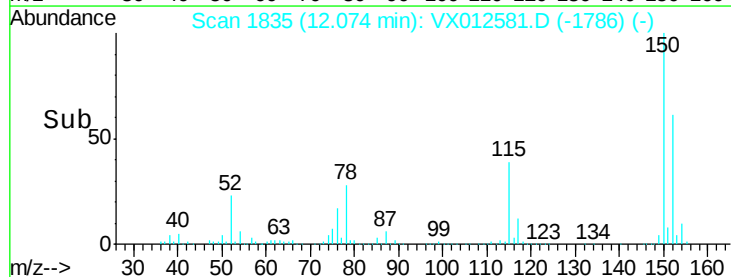
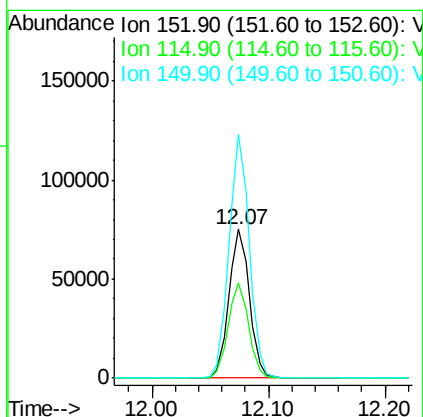
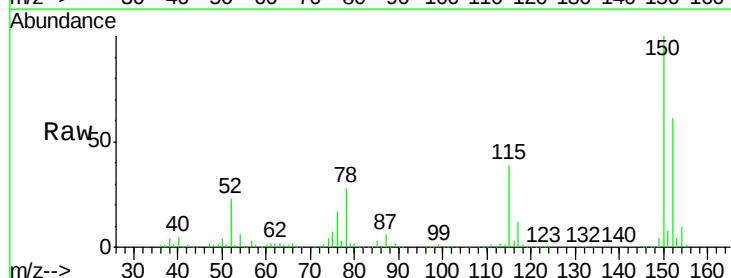
Instrument :
MSVOA_X
ClientSampleId :
S49-0553

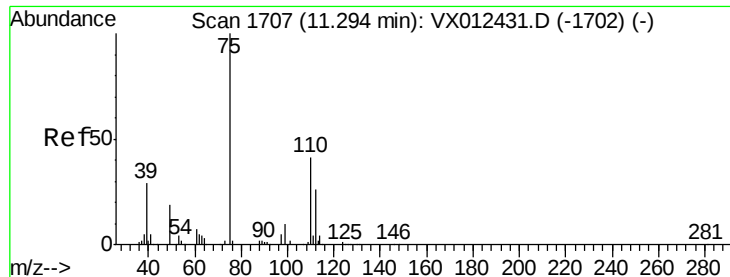
Tot Ion:117 Resp: 237142
Ion Ratio Lower Upper
117 100
82 56.3 45.9 68.9
119 32.0 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012581.D
Acq: 21 Sep 2019 01:19

Tgt Ion:152 Resp: 92119
Ion Ratio Lower Upper
152 100
115 64.5 44.1 132.3
150 162.0 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 27.550 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

Instrument :

MSVOA_X

ClientSampled :

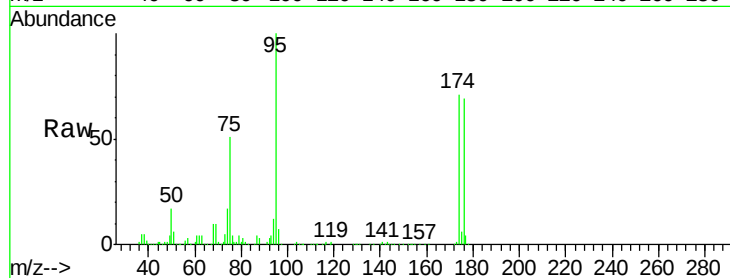
S49-0553

Tot Ion: 75 Resp: 58297

Ion Ratio Lower Upper

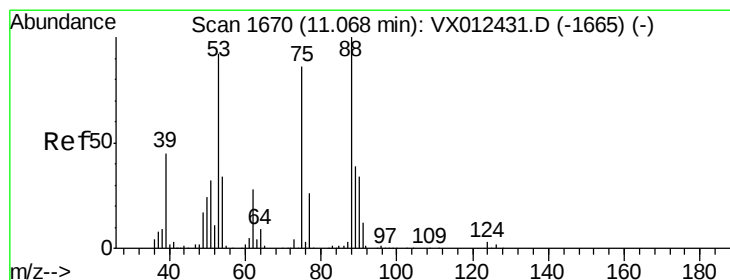
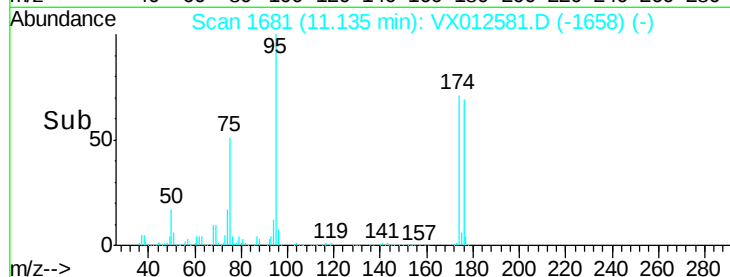
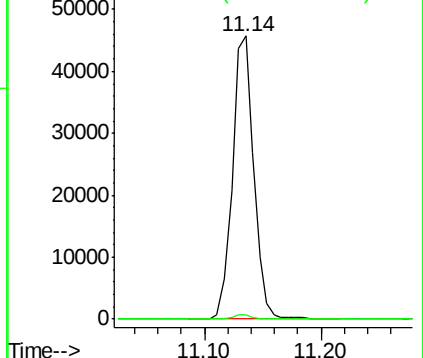
75 100

77 1.4 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: 74.048 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012581.D

Acq: 21 Sep 2019 01:19

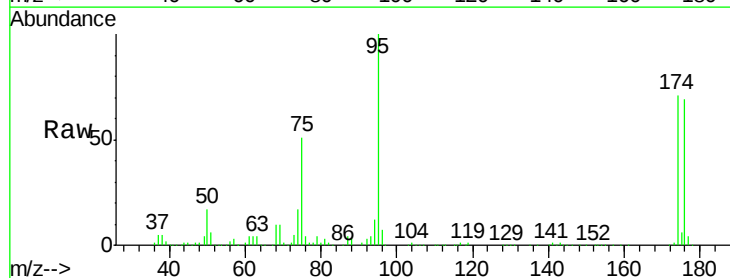
Tgt Ion: 75 Resp: 58297

Ion Ratio Lower Upper

75 100

53 0.2 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

