

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092019\
 Data File : VX012580.D
 Acq On : 21 Sep 2019 00:56
 Operator : JC/SP
 Sample : K4956-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0547

Quant Time: Sep 21 01:41:43 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	178126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	291009	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100620	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	119294	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	
35) Dibromofluoromethane	5.48	113	86870	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
50) Toluene-d8	8.71	98	330930	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
62) 4-Bromofluorobenzene	11.14	95	119225	44.04	ug/l	0.00
Spiked Amount			Recovery	=	88.08%	

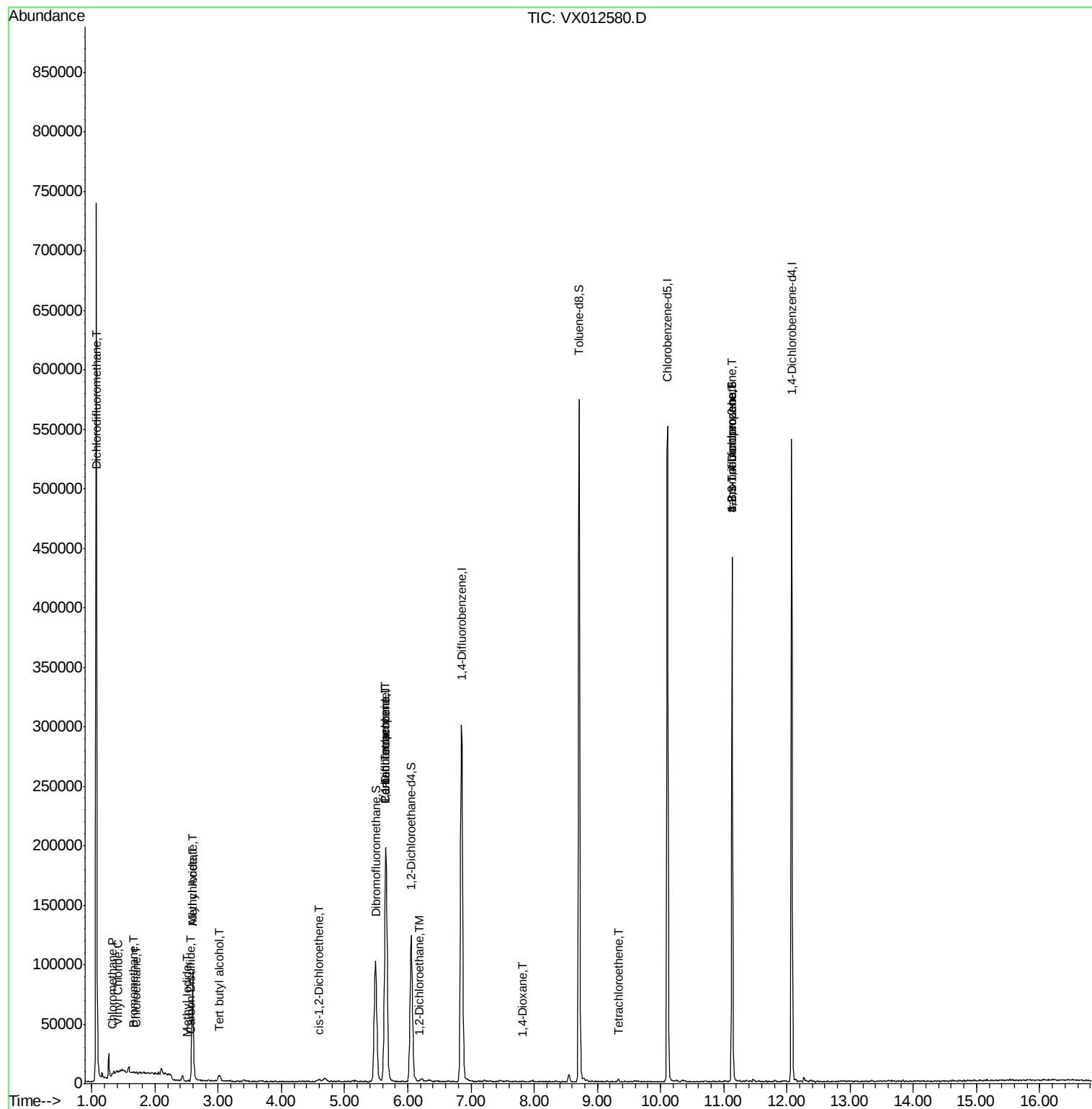
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.08	85	44	0.428	ug/l #	43
3) Chloromethane	1.32	50	340	0.347	ug/l #	86
4) Vinyl Chloride	1.40	62	440	0.416	ug/l #	41
5) Bromomethane	1.65	94	196	0.471	ug/l #	30
6) Chloroethane	1.70	64	215	0.260	ug/l #	45
10) Methyl Iodide	2.51	142	200	4.593	ug/l #	78
11) Tert butyl alcohol	3.03	59	5606	2.854	ug/l	99
13) Acrolein	2.30	56	307	Below Cal	#	15
14) Allyl chloride	2.59	41	9081	3.483	ug/l #	65
16) Acetone	2.44	43	5129	Below Cal		100
17) Carbon Disulfide	2.56	76	688	2.225	ug/l #	75
18) Methyl Acetate	2.59	43	26409	9.927	ug/l #	54
27) cis-1,2-Dichloroethene	4.58	96	1078	0.621	ug/l	89
36) 1,1-Dichloropropene	5.65	75	15079	8.526	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19100	8.683	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	626	0.240	ug/l	86
49) 1,4-Dioxane	7.81	88	22	0.394	ug/l #	1
64) Tetrachloroethene	9.33	164	256	0.228	ug/l #	67
76) 1,2,3-Trichloropropane	11.14	75	61421	26.574	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	61421	71.534	ug/l #	8

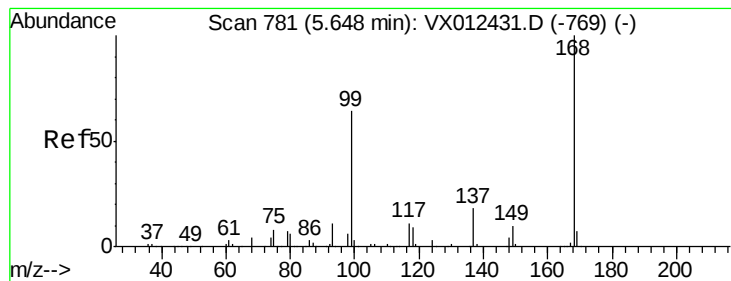
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 21 01:41:43 2019
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# 781

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

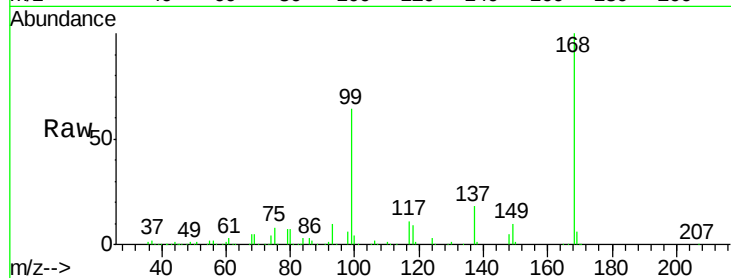
S49-0547

Tot Ion:168 Resp: 178126

Ion Ratio Lower Upper

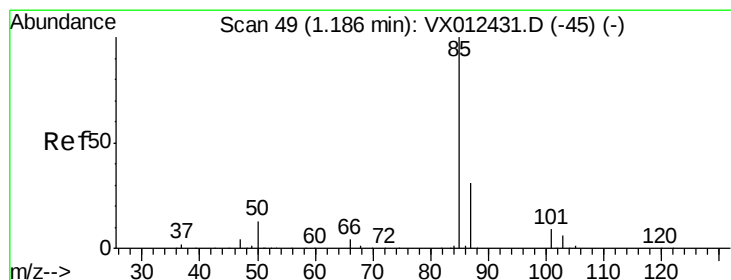
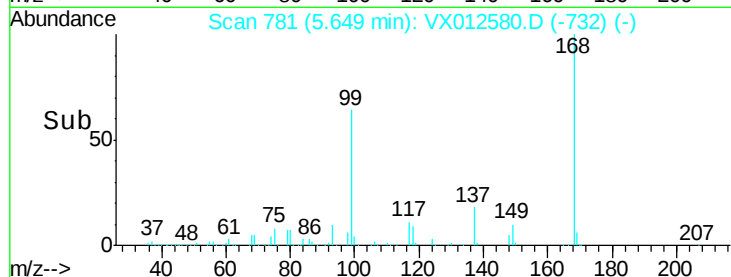
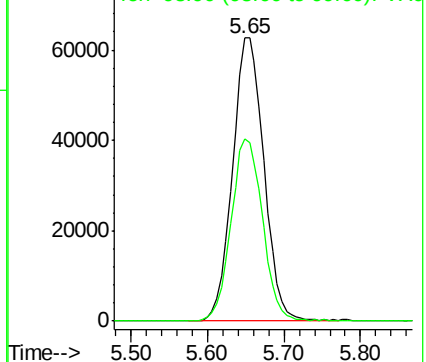
168 100

99 64.4 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: 0.428 ug/l

RT: 1.08 min Scan# 32

Delta R.T. -0.10 min

Lab File: VX012580.D

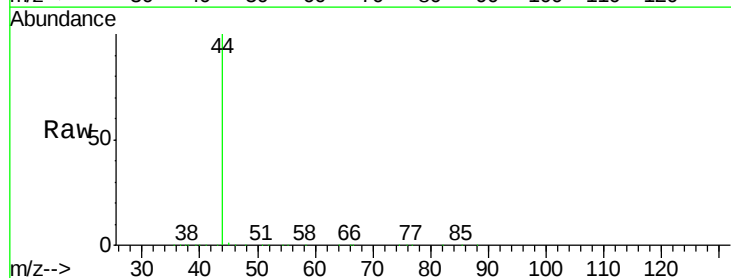
Acq: 21 Sep 2019 00:56

Tgt Ion: 85 Resp: 44

Ion Ratio Lower Upper

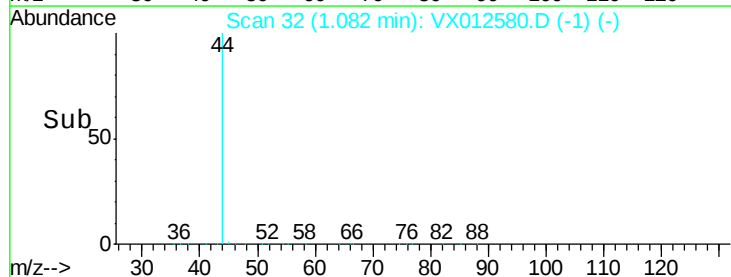
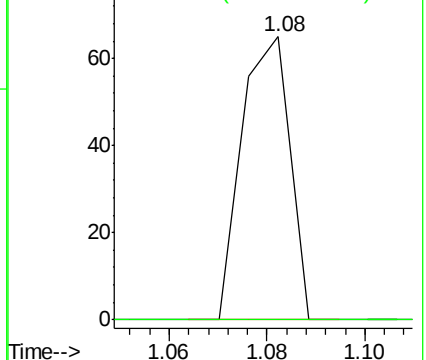
85 100

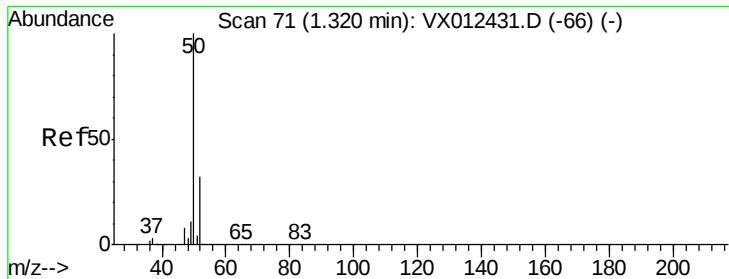
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.347 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

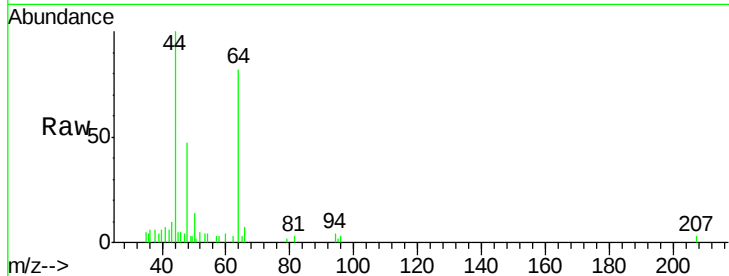
S49-0547

Tot Ion: 50 Resp: 340

Ion Ratio Lower Upper

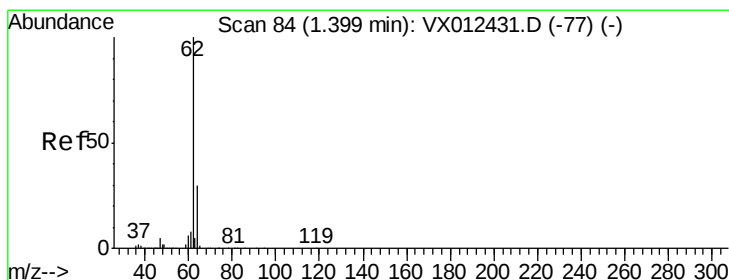
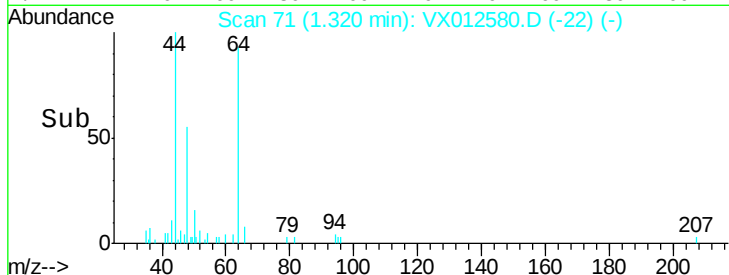
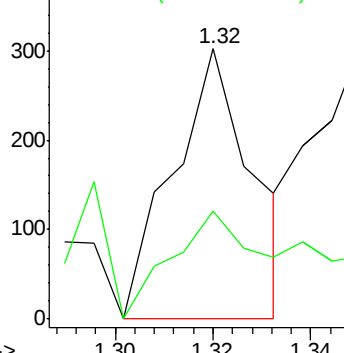
50 100

52 39.7 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: 0.416 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012580.D

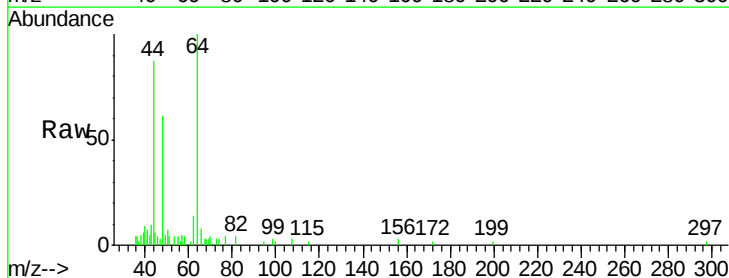
Acq: 21 Sep 2019 00:56

Tgt Ion: 62 Resp: 440

Ion Ratio Lower Upper

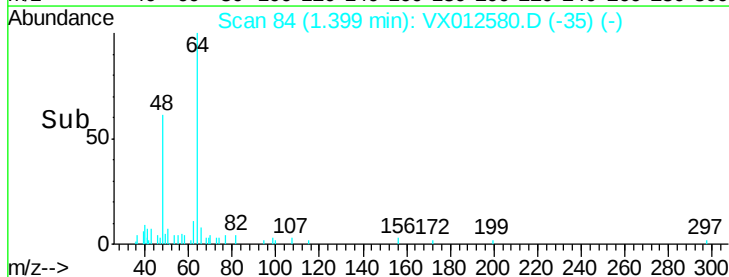
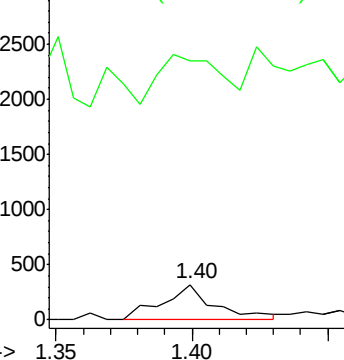
62 100

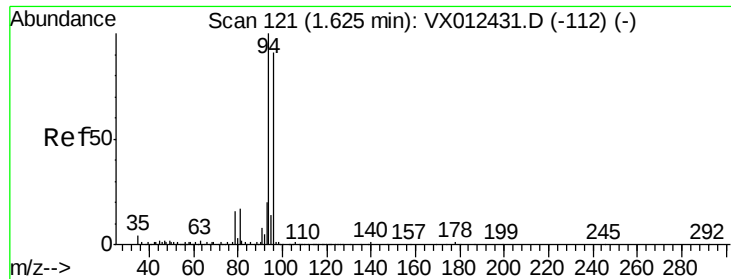
64 62.1 24.2 36.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.471 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

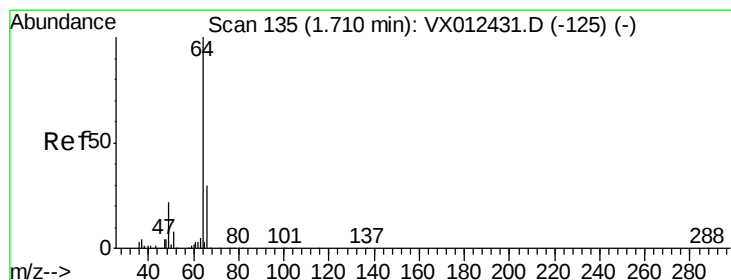
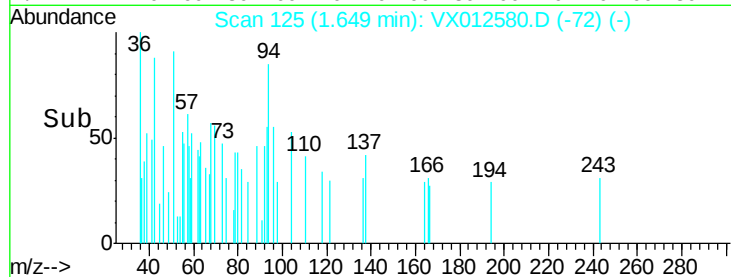
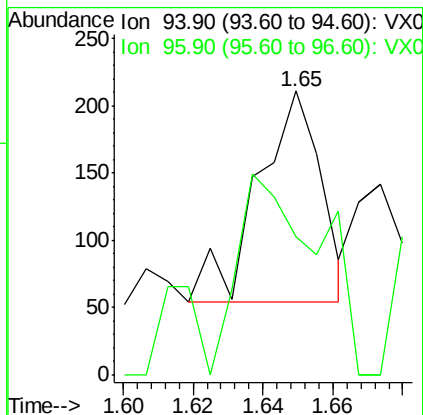
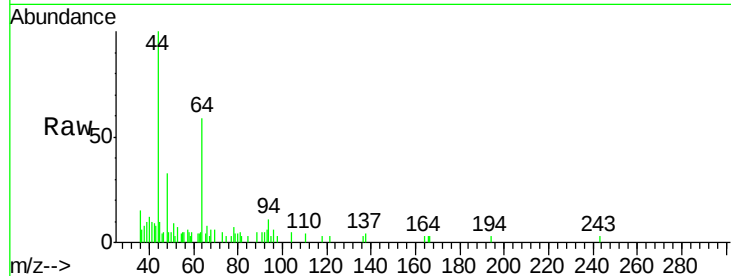
S49-0547

Tot Ion: 94 Resp: 196

Ion Ratio Lower Upper

94 100

96 24.2 72.8 109.2#



#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012580.D

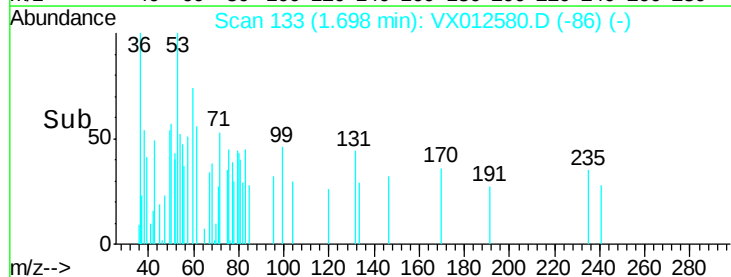
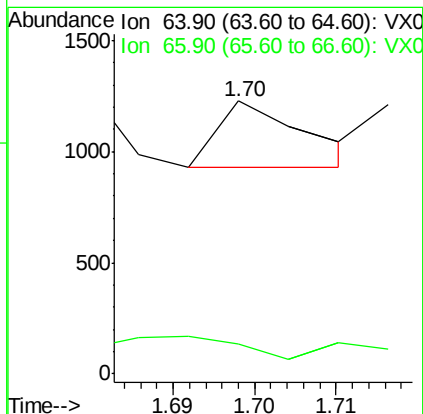
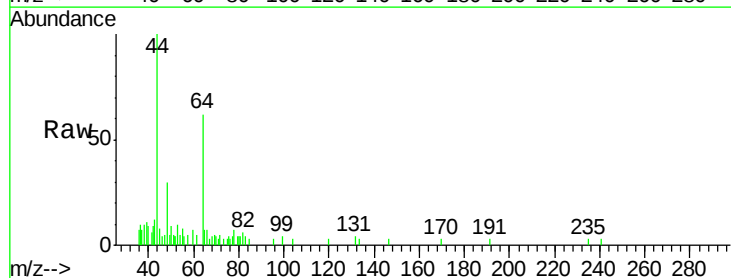
Acq: 21 Sep 2019 00:56

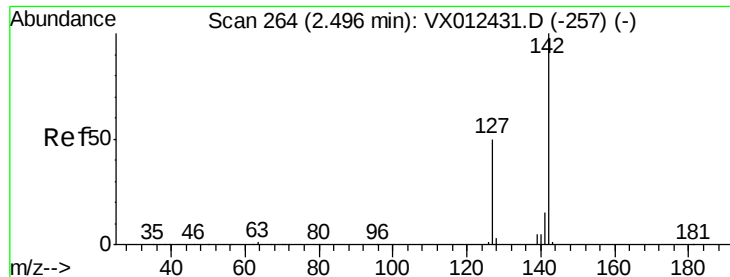
Tgt Ion: 64 Resp: 215

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#

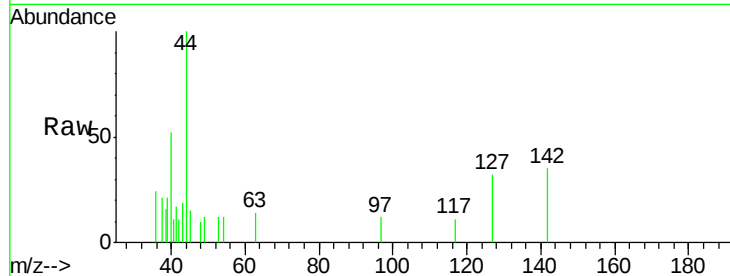




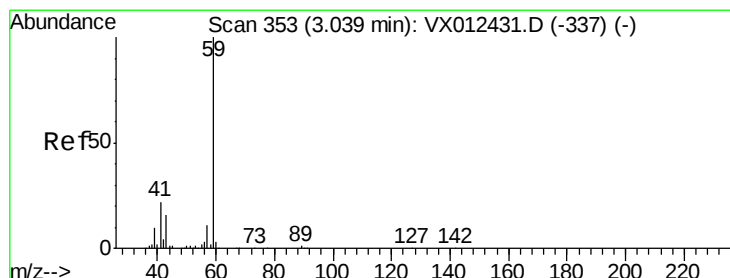
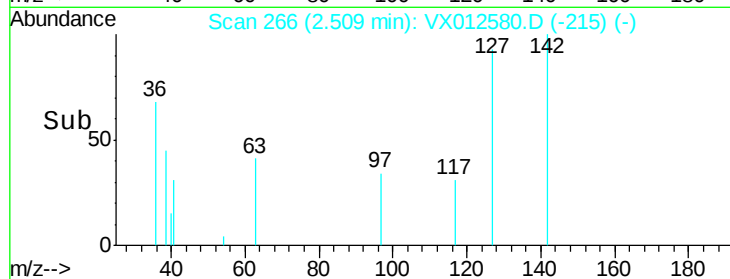
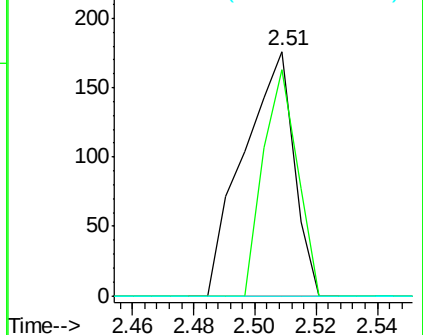
#10
Methyl Iodide
Concen: 4.593 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012580.D
Acq: 21 Sep 2019 00:56

Instrument :
MSVOA_X
ClientSampled :
S49-0547

Tot Ion:142 Resp: 200
Ion Ratio Lower Upper
142 100
127 63.5 40.8 61.2#
141 0.0 12.1 18.1#

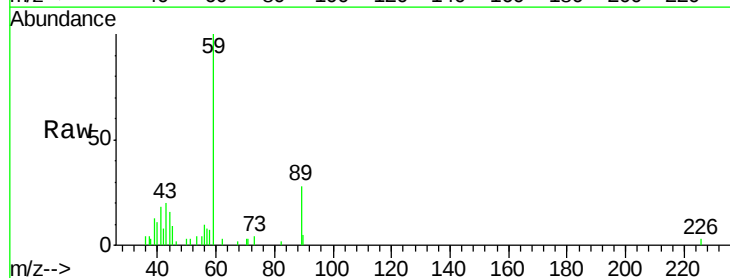


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

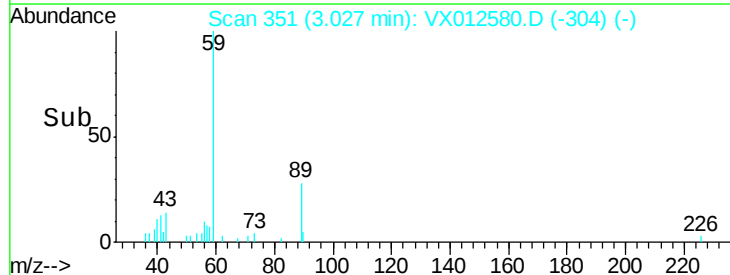
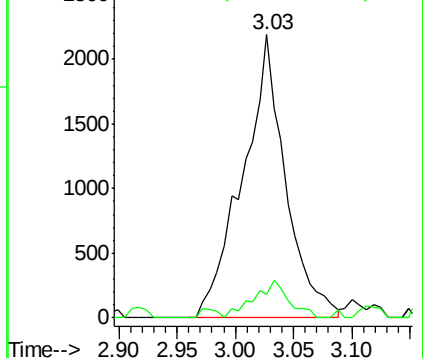


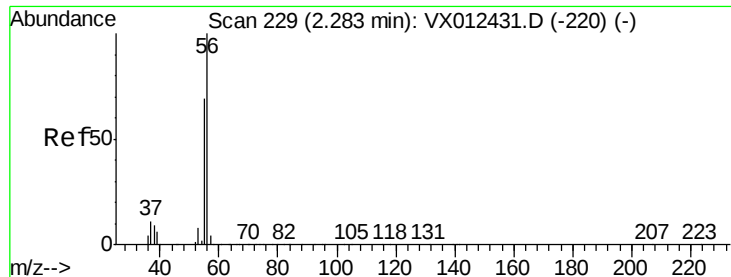
#11
Tert butyl alcohol
Concen: 2.854 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012580.D
Acq: 21 Sep 2019 00:56

Tgt Ion: 59 Resp: 5606
Ion Ratio Lower Upper
59 100
57 10.8 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: Below Cal

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

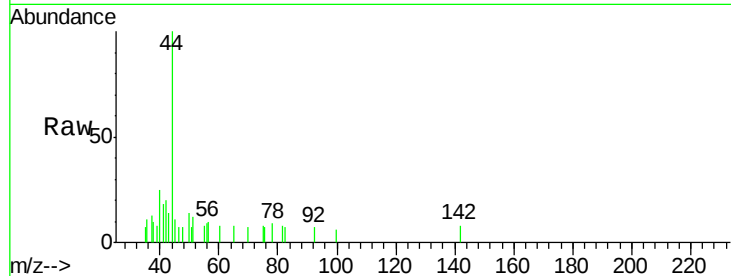
S49-0547

Tot Ion: 56 Resp: 307

Ion Ratio Lower Upper

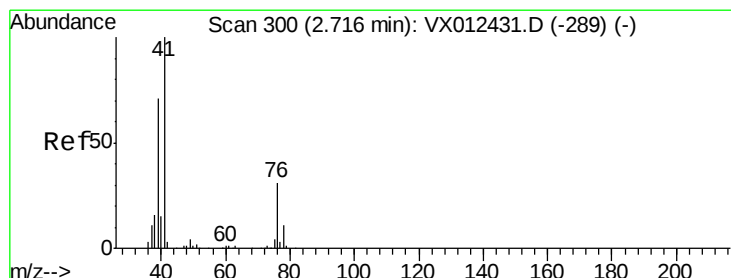
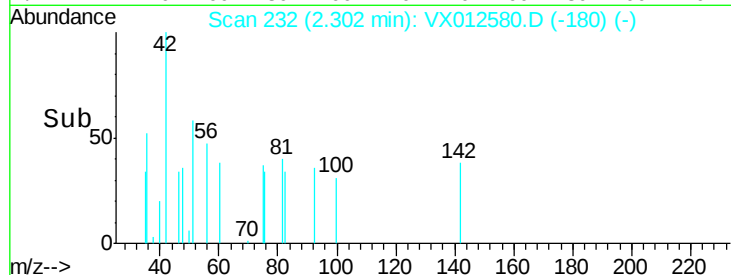
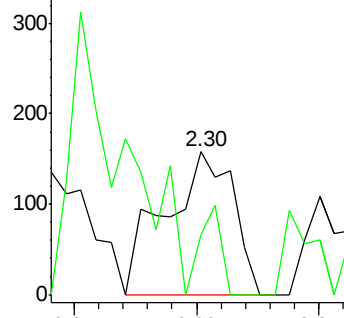
56 100

55 0.0 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: 3.483 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

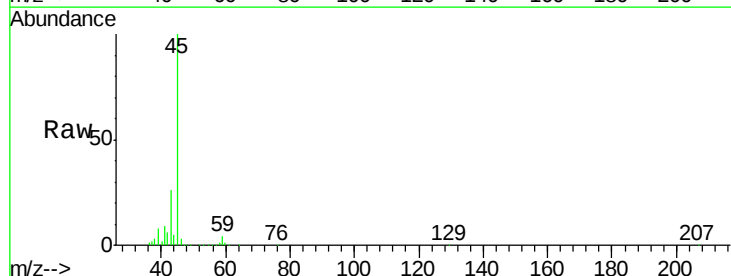
Tgt Ion: 41 Resp: 9081

Ion Ratio Lower Upper

41 100

39 85.6 51.3 76.9#

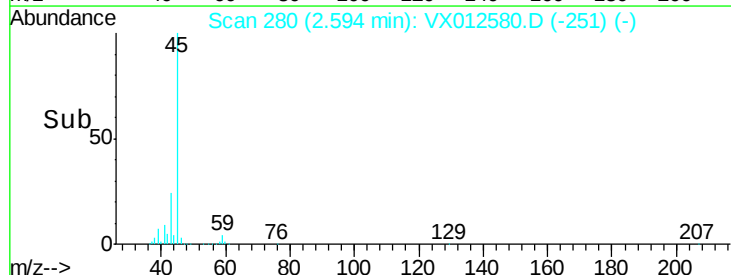
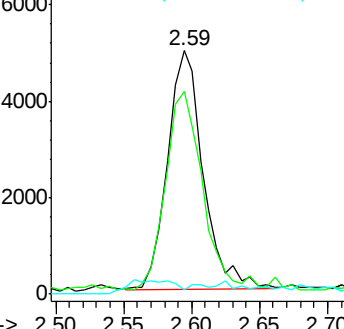
76 1.2 22.6 33.8#

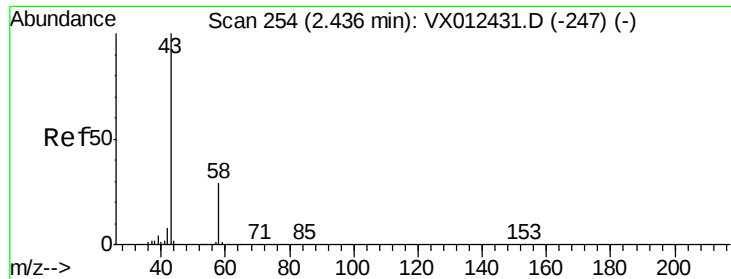


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

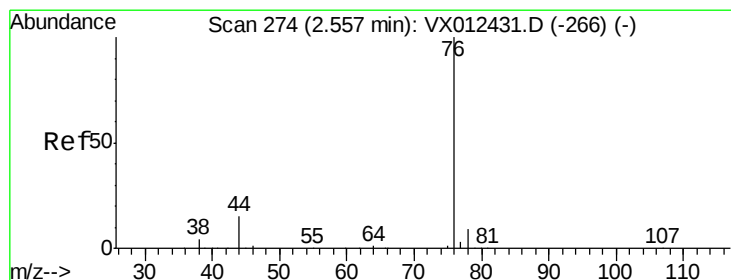
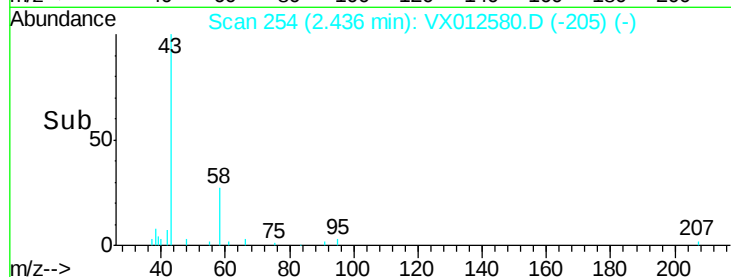
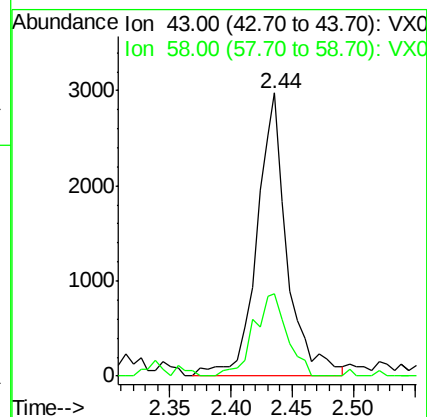
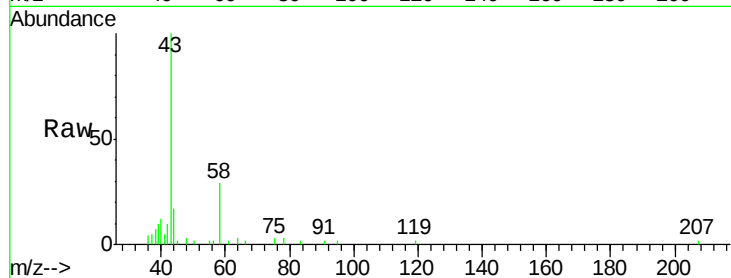
S49-0547

Tot Ion: 43 Resp: 5129

Ion Ratio Lower Upper

43 100

58 28.9 23.3 34.9



#17

Carbon Disulfide

Concen: 2.225 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012580.D

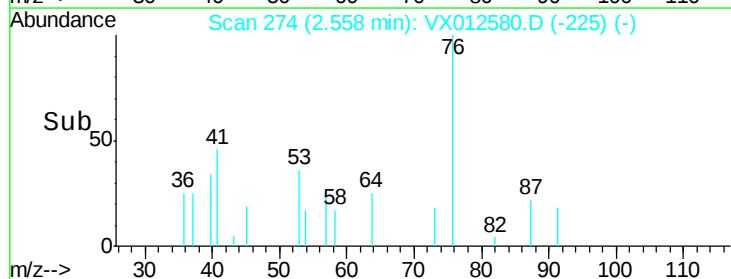
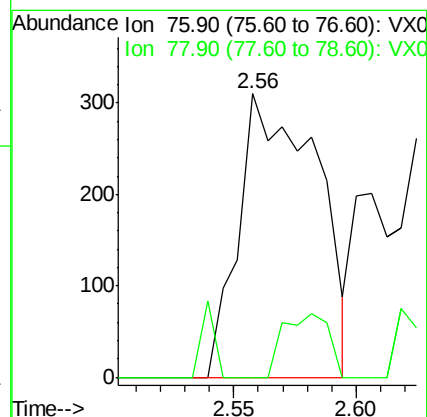
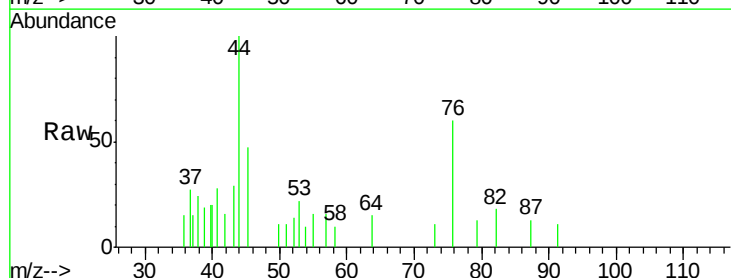
Acq: 21 Sep 2019 00:56

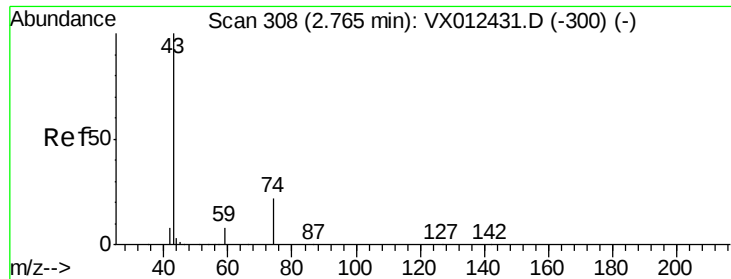
Tgt Ion: 76 Resp: 688

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

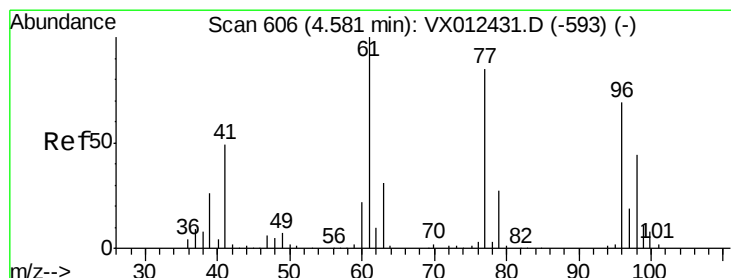
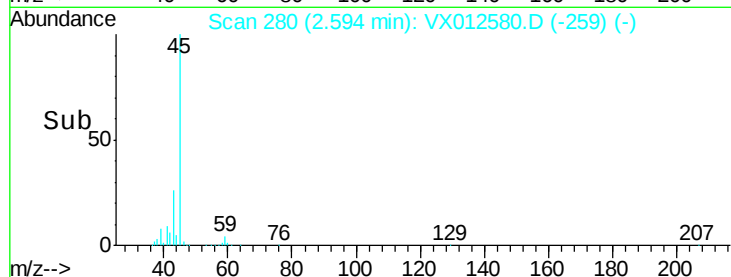
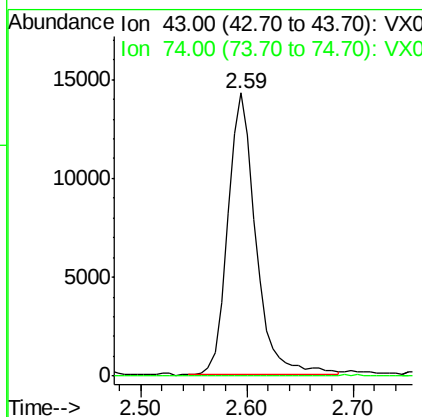
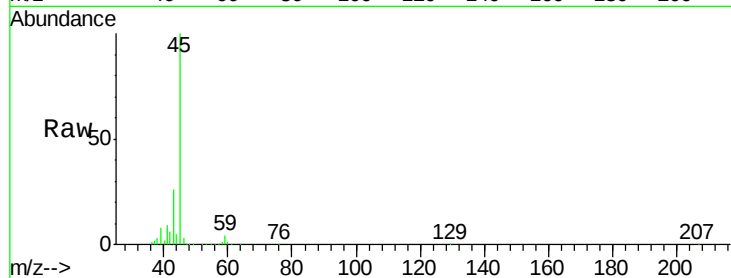




#18
Methvl Acetate
Concen: 9.927 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012580.D
Acq: 21 Sep 2019 00:56

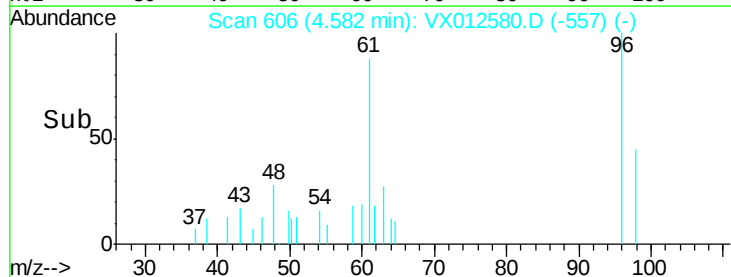
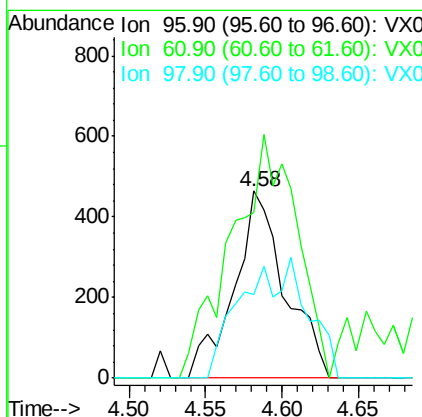
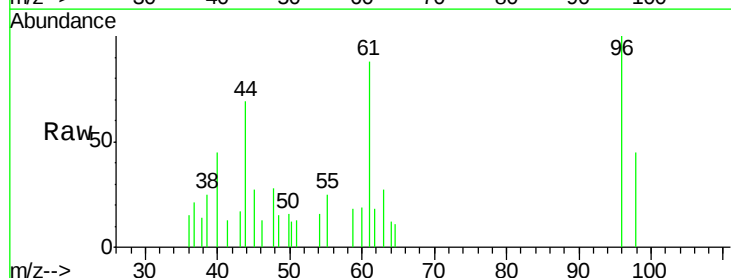
Instrument :
MSVOA_X
ClientSampled :
S49-0547

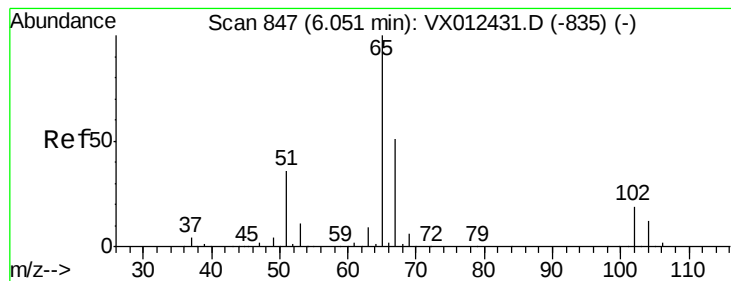
Tot Ion: 43 Resp: 26409
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#27
cis-1,2-Dichloroethene
Concen: 0.621 ug/l
RT: 4.58 min Scan# 606
Delta R.T. 0.00 min
Lab File: VX012580.D
Acq: 21 Sep 2019 00:56

Tgt Ion: 96 Resp: 1078
Ion Ratio Lower Upper
96 100
61 166.0 0.0 319.4
98 44.9 0.0 130.6





#33

1,2-Dichloroethane-d4

Concen: 46.729 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

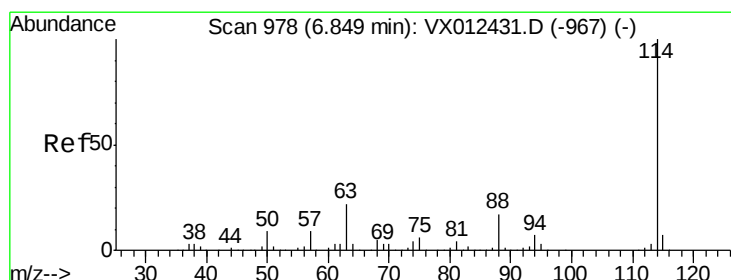
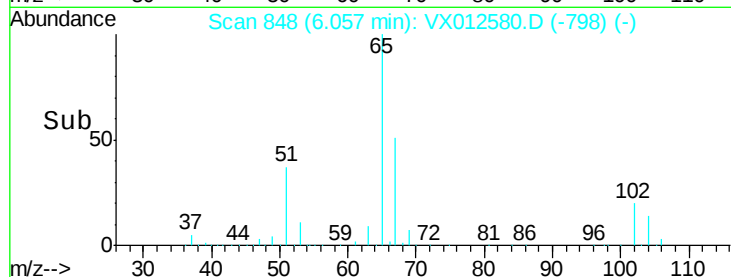
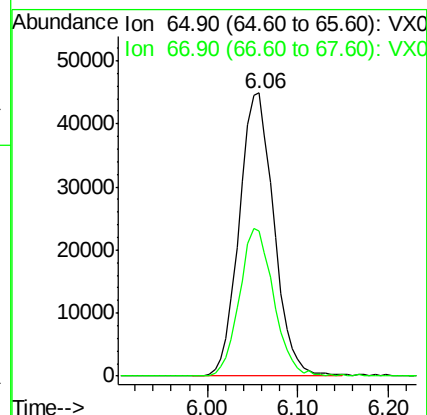
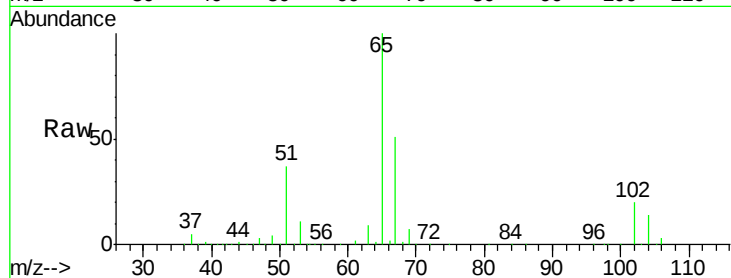
S49-0547

Tot Ion: 65 Resp: 119294

Ion Ratio Lower Upper

65 100

67 51.4 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

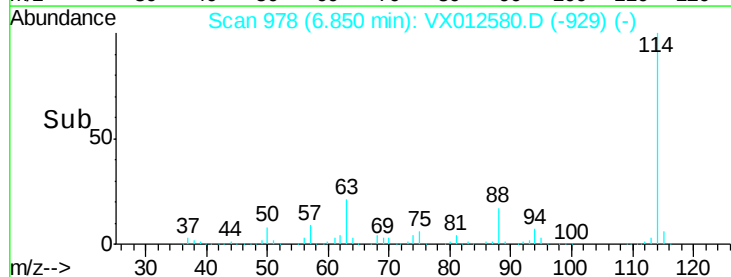
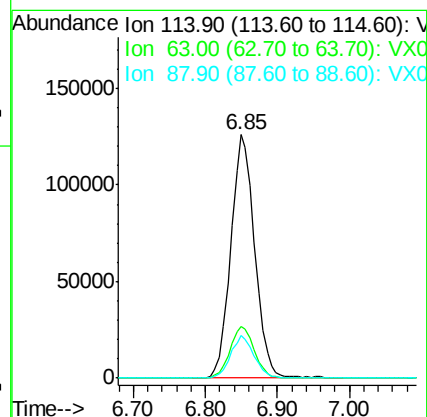
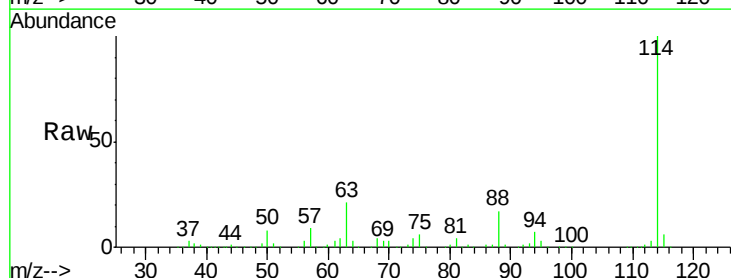
Tgt Ion: 114 Resp: 291009

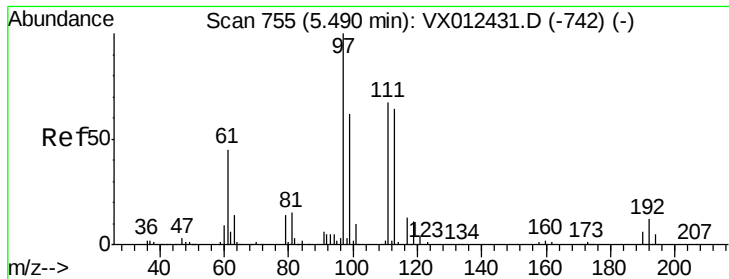
Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.2

88 17.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.320 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0547

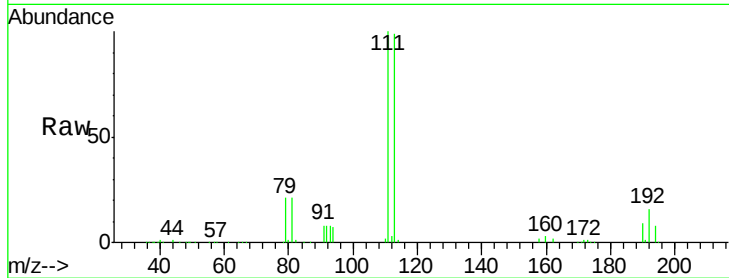
Tot Ion:113 Resp: 86870

Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.2

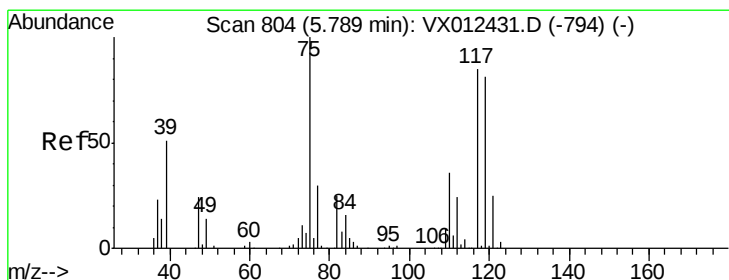
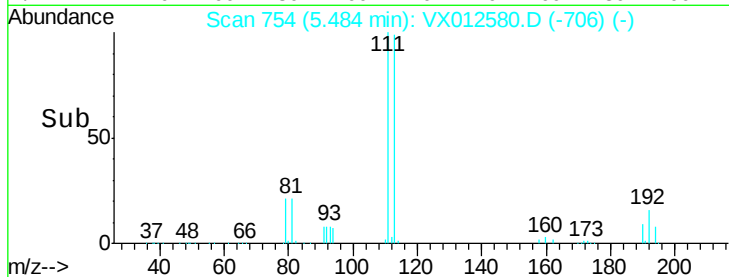
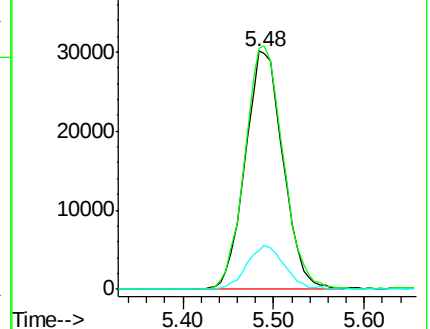
192 18.5 14.4 21.6



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: 8.526 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

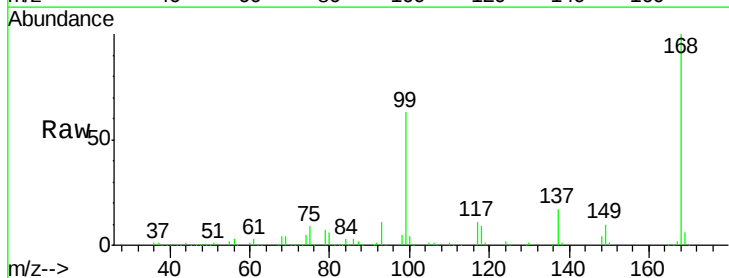
Tgt Ion: 75 Resp: 15079

Ion Ratio Lower Upper

75 100

110 10.2 16.7 50.0#

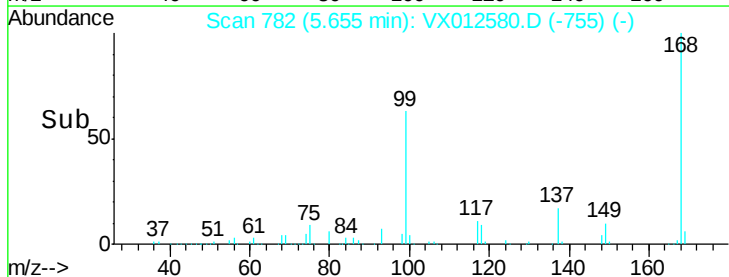
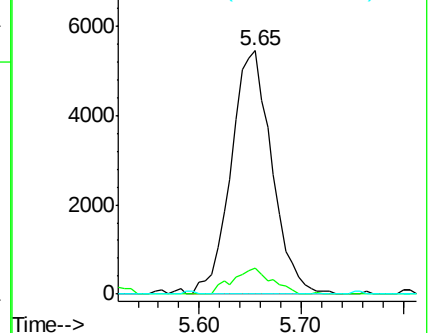
77 0.0 24.2 36.2#

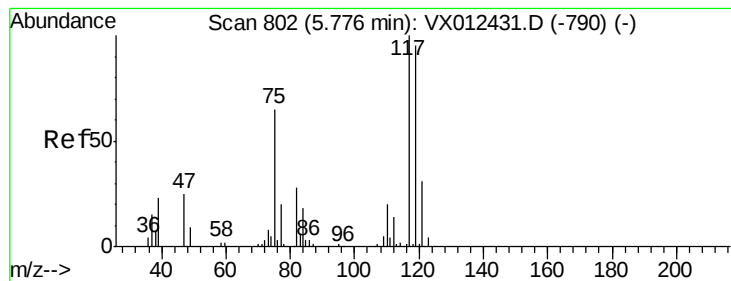


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 8.683 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0547

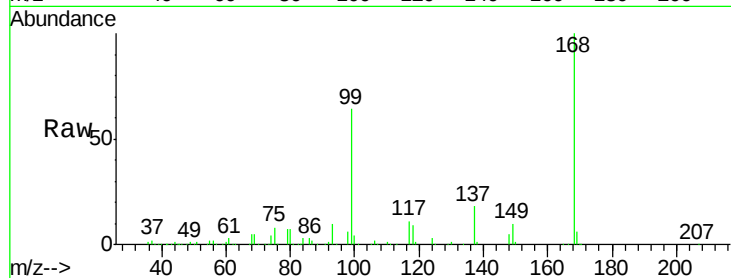
Tot Ion:117 Resp: 19100

Ion Ratio Lower Upper

117 100

119 5.0 75.7 113.5#

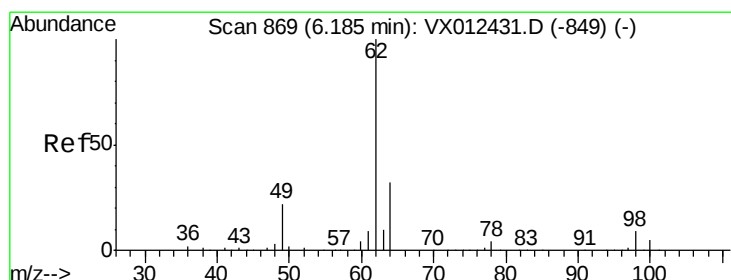
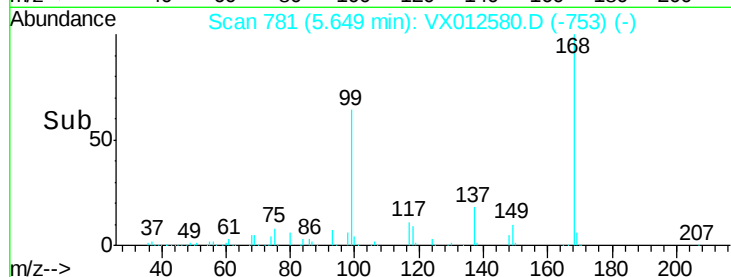
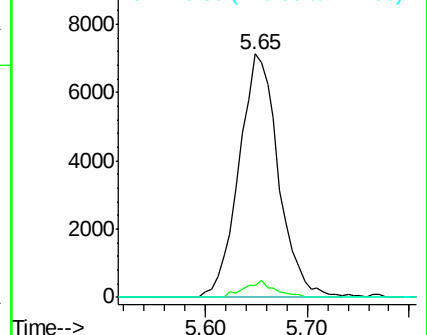
121 0.0 24.2 36.4#



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



#42

1,2-Dichloroethane

Concen: 0.240 ug/l

RT: 6.19 min Scan# 869

Delta R.T. 0.00 min

Lab File: VX012580.D

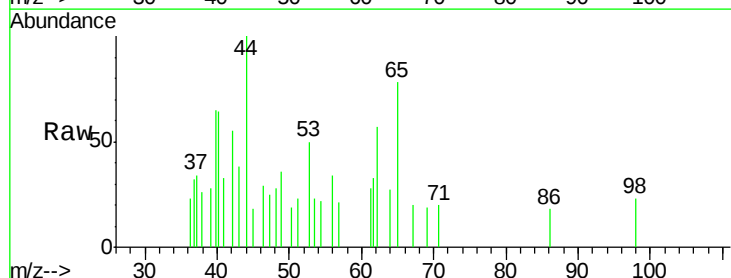
Acq: 21 Sep 2019 00:56

Tgt Ion: 62 Resp: 626

Ion Ratio Lower Upper

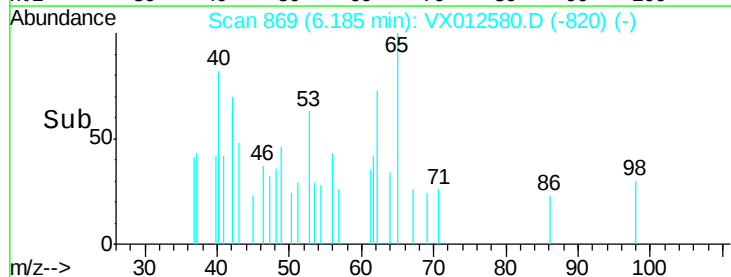
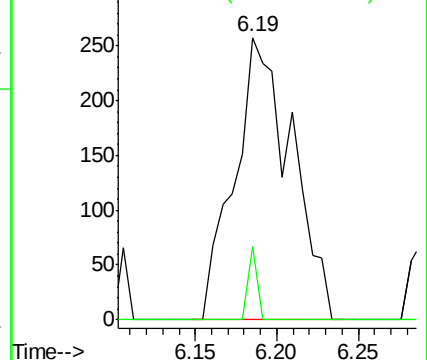
62 100

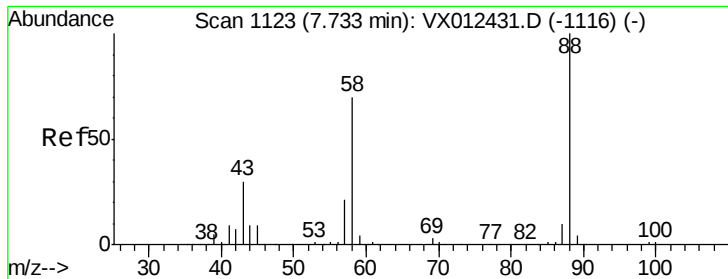
98 4.0 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

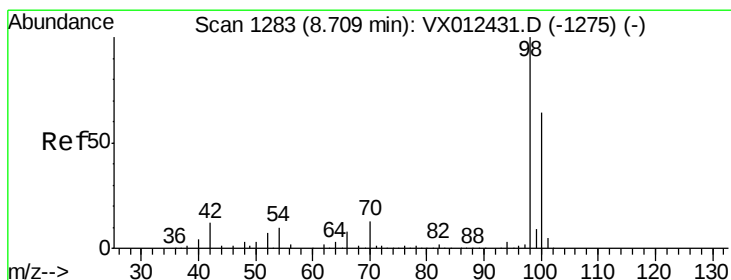
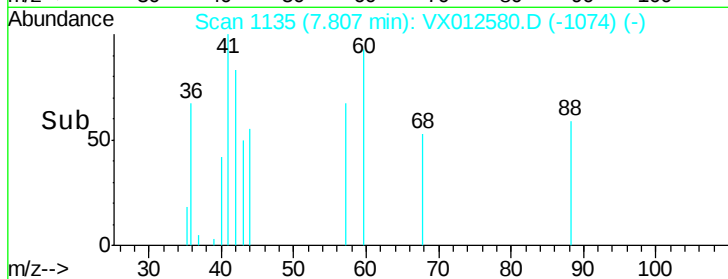
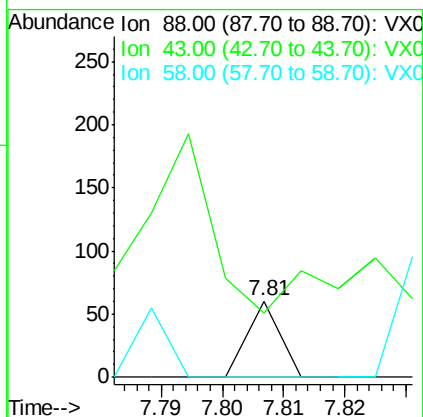
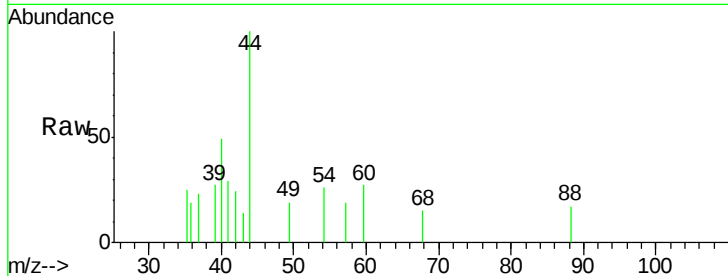




#49
1,4-Dioxane
Concen: 0.394 ug/l
RT: 7.81 min Scan# 1135
Delta R.T. 0.07 min
Lab File: VX012580.D
Acq: 21 Sep 2019 00:56

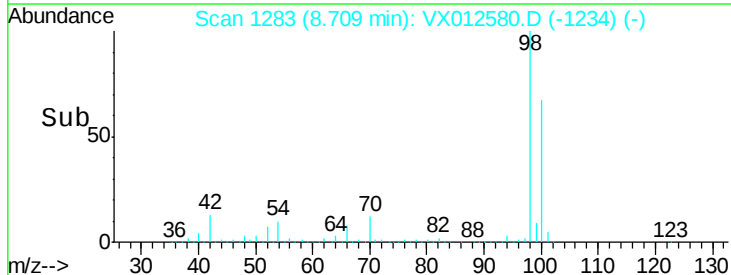
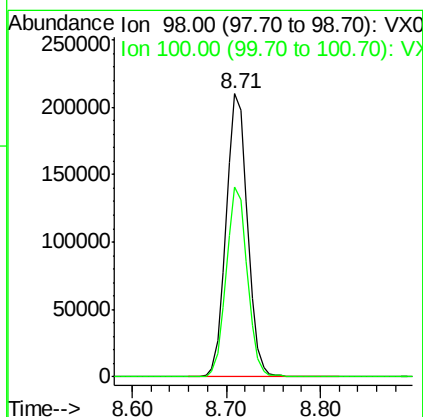
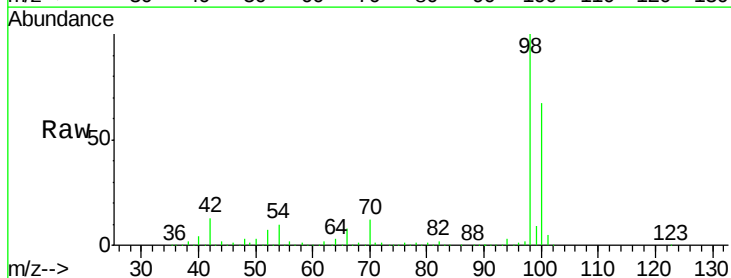
Instrument :
MSVOA_X
ClientSampled :
S49-0547

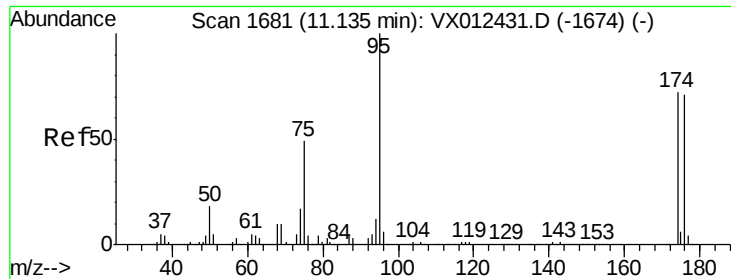
Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 890.9 29.4 44.0#
58 90.9 57.5 86.3#



#50
Toluene-d8
Concen: 50.760 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012580.D
Acq: 21 Sep 2019 00:56

Tgt Ion: 98 Resp: 330930
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.2





#62

4-Bromofluorobenzene

Concen: 44.044 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampleId :

S49-0547

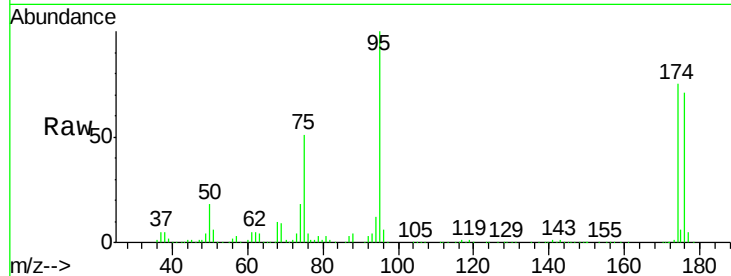
Tot Ion: 95 Resp: 119225

Ion Ratio Lower Upper

95 100

174 71.2 0.0 140.0

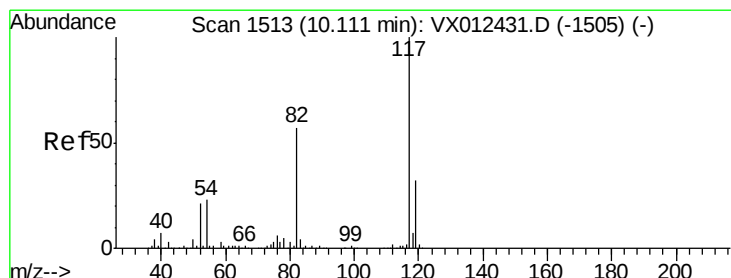
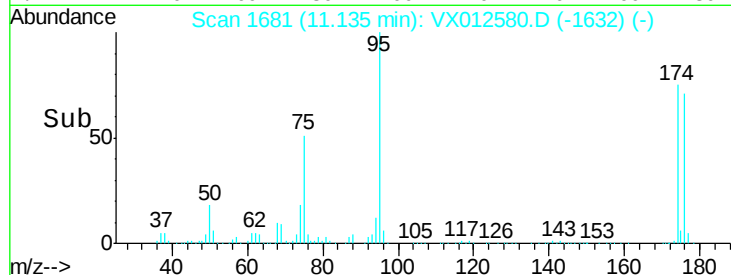
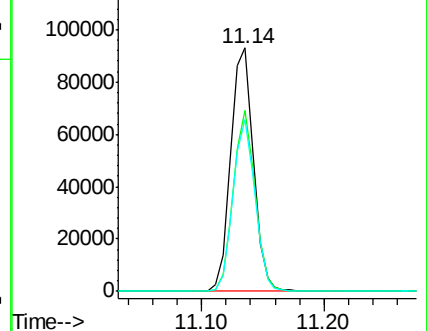
176 68.2 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

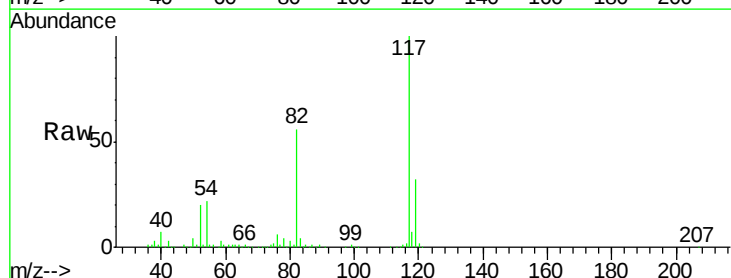
Tgt Ion: 117 Resp: 245377

Ion Ratio Lower Upper

117 100

82 56.0 45.9 68.9

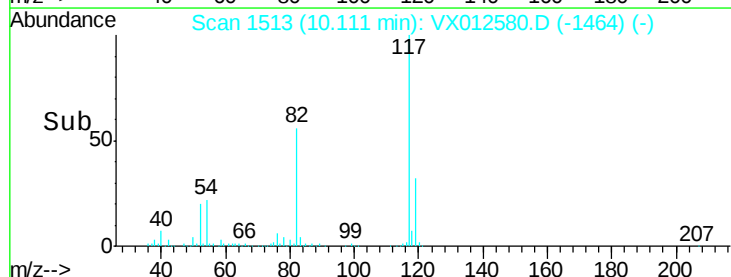
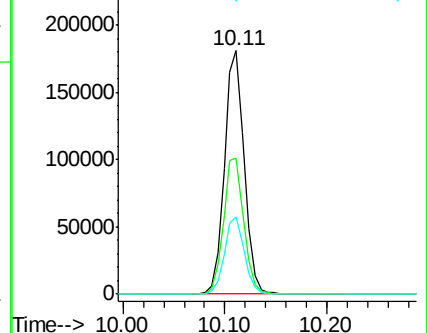
119 32.0 25.3 37.9

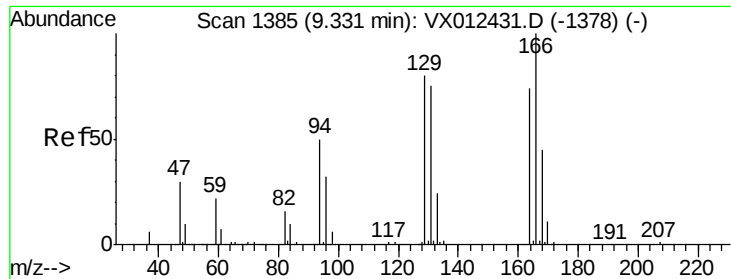


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.228 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampled :

S49-0547

Tot Ion:164 Resp: 256

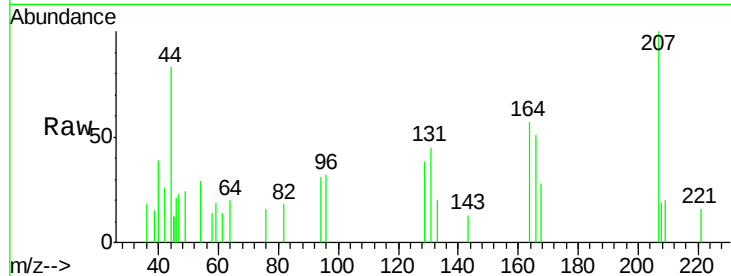
Ion Ratio Lower Upper

164 100

166 90.0 107.8 161.6#

129 66.8 86.2 129.2#

131 79.7 80.4 120.6#

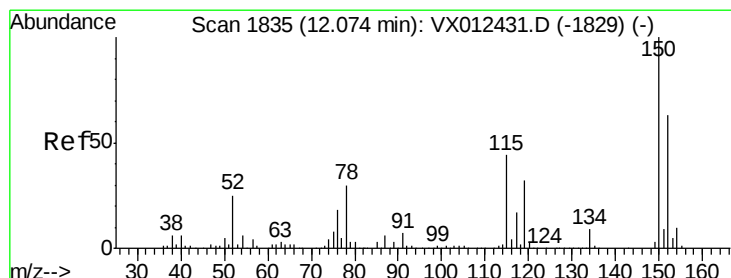
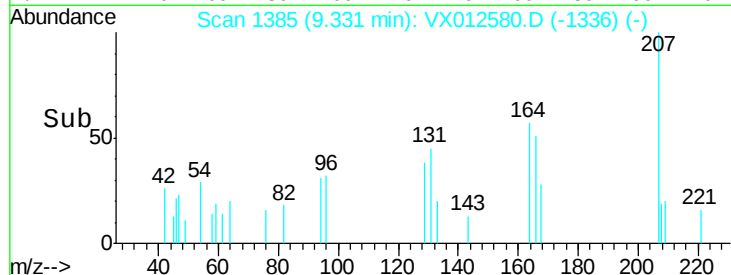
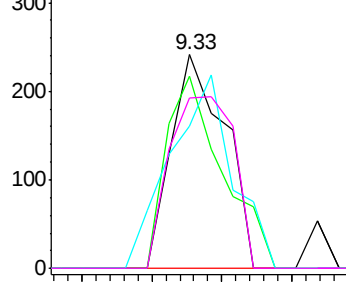


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

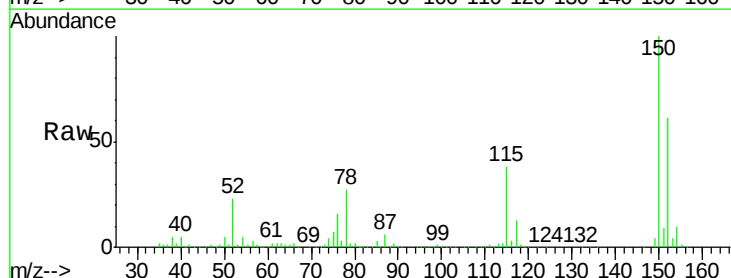
Tgt Ion:152 Resp: 100620

Ion Ratio Lower Upper

152 100

115 63.0 44.1 132.3

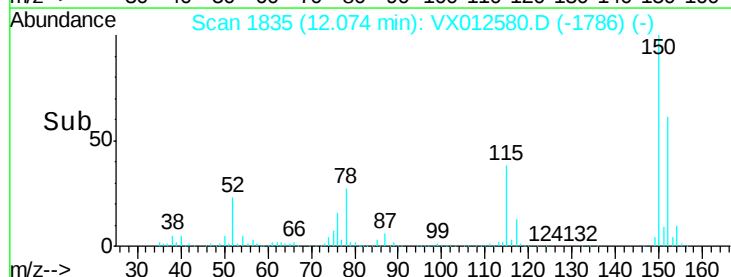
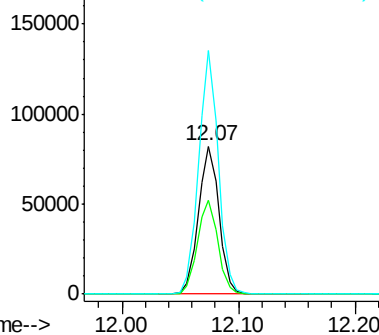
150 158.1 0.0 343.8

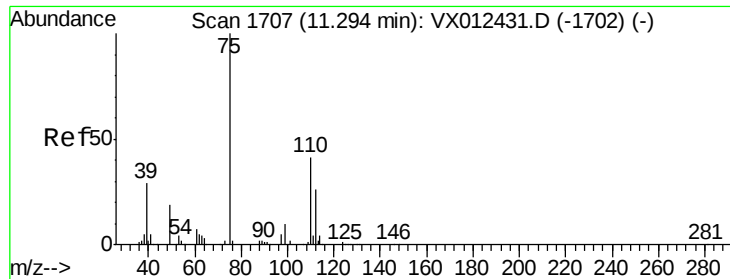


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.574 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Instrument :

MSVOA_X

ClientSampled :

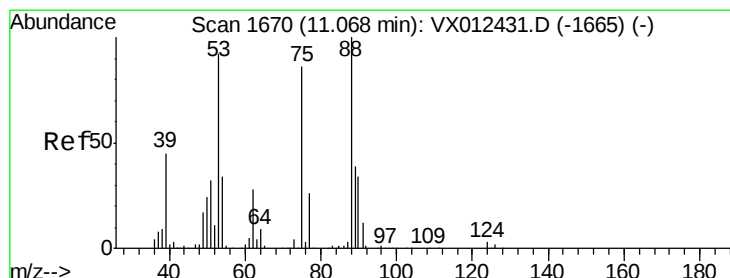
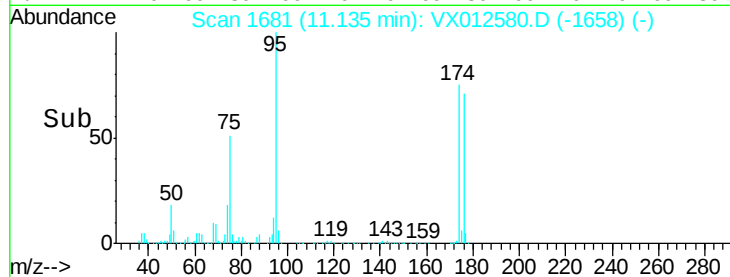
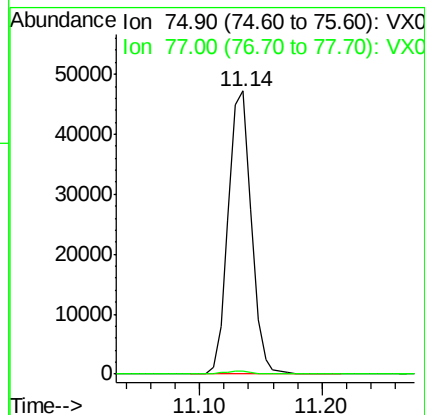
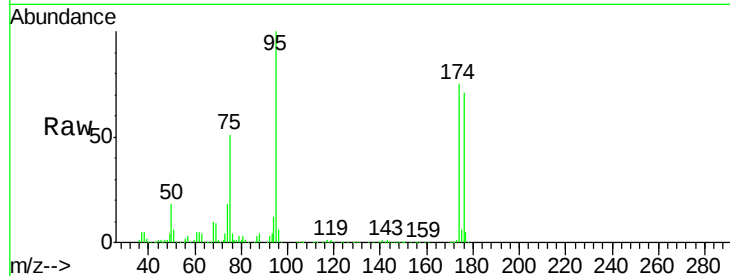
S49-0547

Tot Ion: 75 Resp: 61421

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.534 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012580.D

Acq: 21 Sep 2019 00:56

Tgt Ion: 75 Resp: 61421

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.0 36.3 54.5#

