

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX092619\
 Data File : VX012675.D
 Acq On : 26 Sep 2019 15:39
 Operator : JC/SP
 Sample : K5048-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0527

Quant Time: Sep 26 23:34:34 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	173839	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	306351	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	99839	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	130410	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
35) Dibromofluoromethane	5.49	113	93993	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
50) Toluene-d8	8.71	98	365677	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	11.14	95	127684	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	

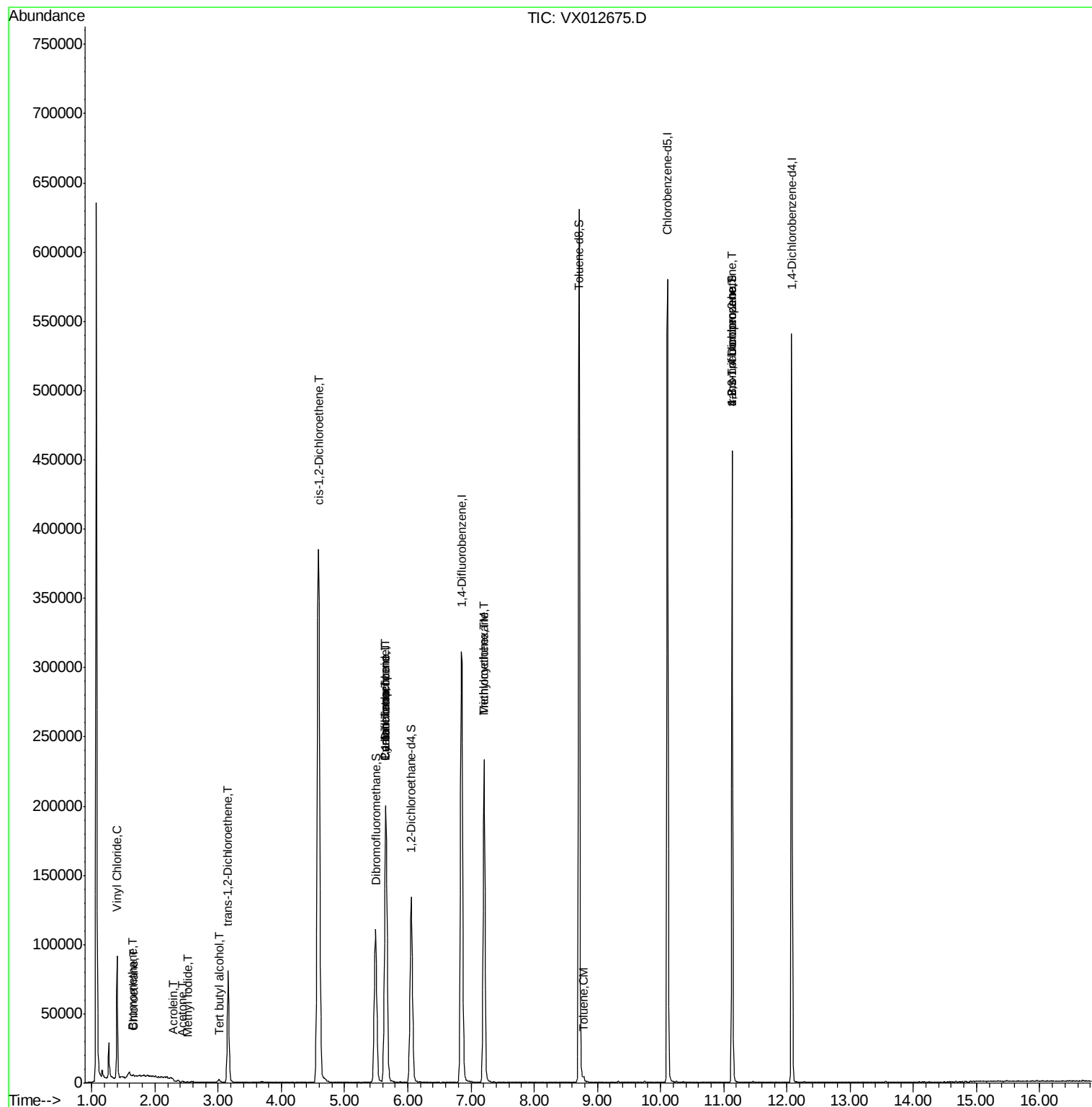
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	53983	24.185	ug/l	99
5) Bromomethane	1.64	94	445	0.507	ug/l #	52
6) Chloroethane	1.66	64	1030	0.685	ug/l #	45
10) Methyl Iodide	2.51	142	134	5.013	ug/l #	59
11) Tert butyl alcohol	3.01	59	1589	2.513	ug/l #	72
13) Acrolein	2.29	56	101	10.508	ug/l #	15
16) Acetone	2.43	43	1117	0.833	ug/l	99
21) trans-1,2-Dichloroethene	3.16	96	32987	15.931	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	242422	100.898	ug/l	86
31) Cyclohexane	5.65	56	4426	1.256	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15170	5.137	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19324	6.442	ug/l #	17
39) Methylcyclohexane	7.20	83	1289	0.363	ug/l #	1
44) Trichloroethene	7.21	130	87963	39.603	ug/l	96
52) Toluene	8.79	92	1149	0.210	ug/l	88
76) 1,2,3-Trichloropropane	11.14	75	66232	25.079	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	66232	71.869	ug/l #	8

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

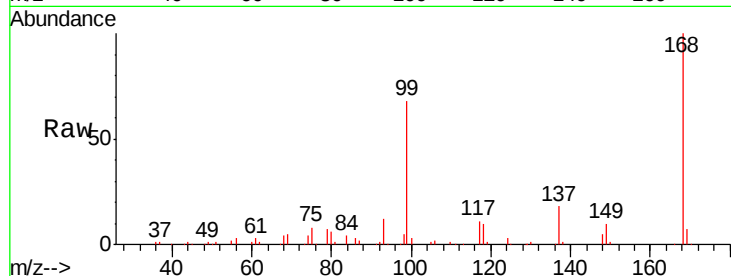
S49-0527

Tgt Ion:168 Resp: 173839

Ion Ratio Lower Upper

168 100

99 67.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

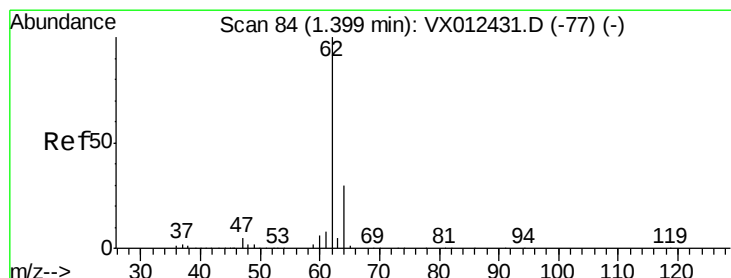
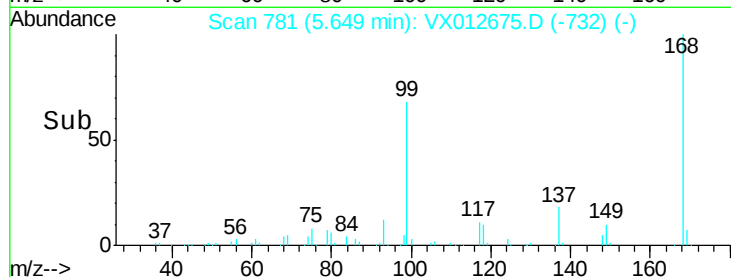
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 24.185 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012675.D

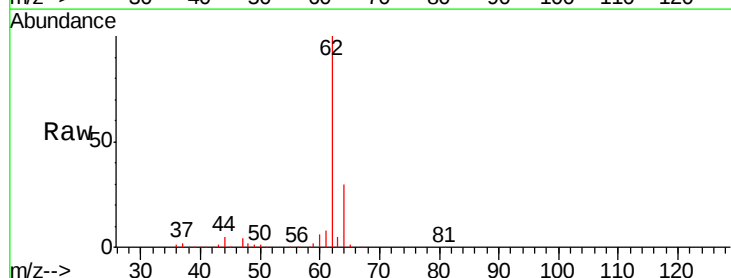
Acq: 26 Sep 2019 15:39

Tgt Ion: 62 Resp: 53983

Ion Ratio Lower Upper

62 100

64 29.6 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

60000

50000

40000

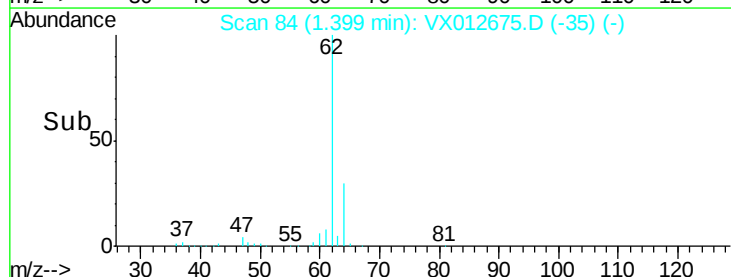
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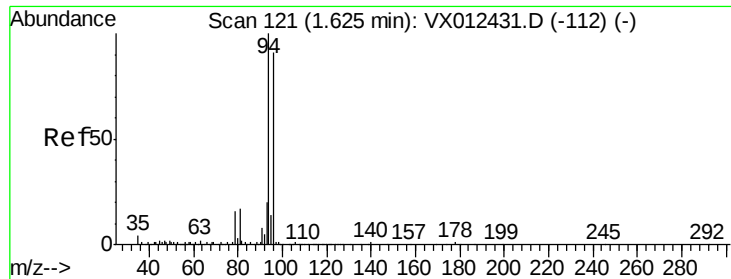
20000

10000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.507 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

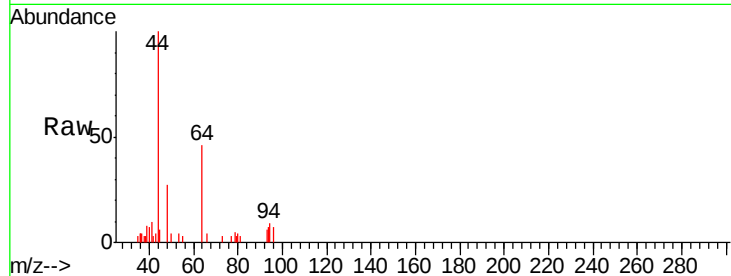
S49-0527

Tgt Ion: 94 Resp: 445

Ion Ratio Lower Upper

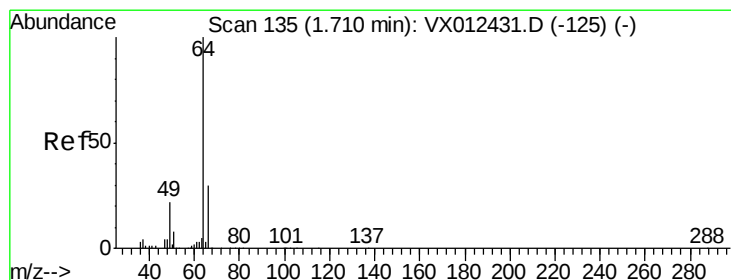
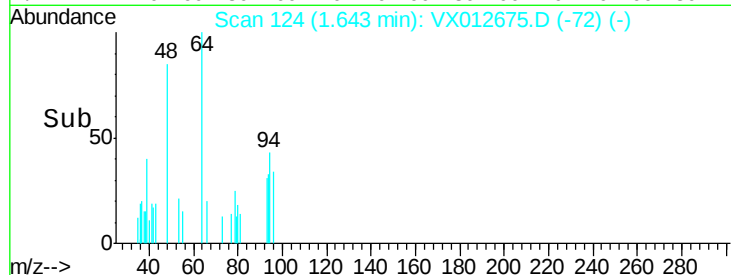
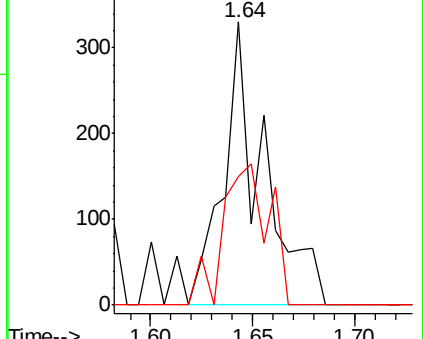
94 100

96 45.5 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: 0.685 ug/l

RT: 1.66 min Scan# 126

Delta R.T. -0.05 min

Lab File: VX012675.D

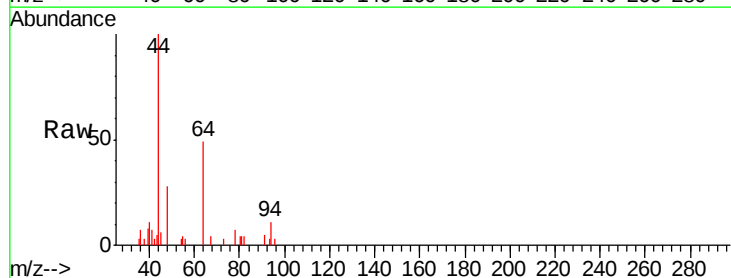
Acq: 26 Sep 2019 15:39

Tgt Ion: 64 Resp: 1030

Ion Ratio Lower Upper

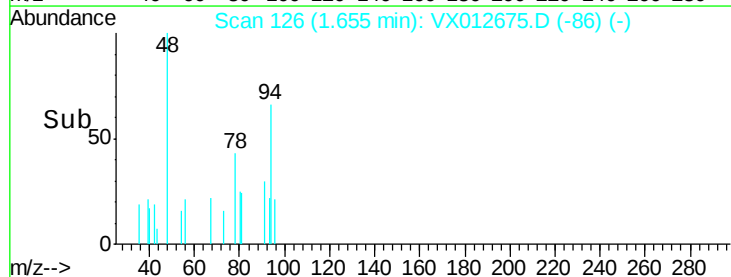
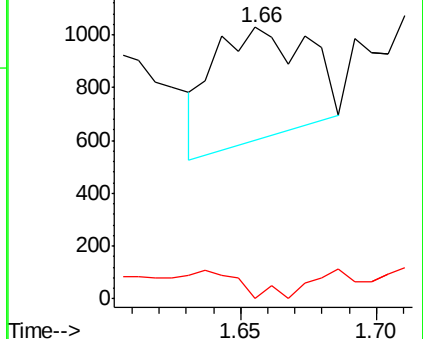
64 100

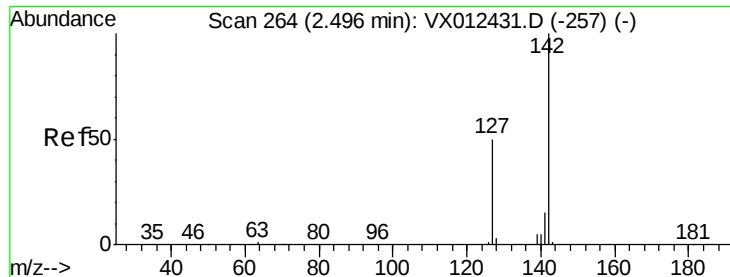
66 0.0 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

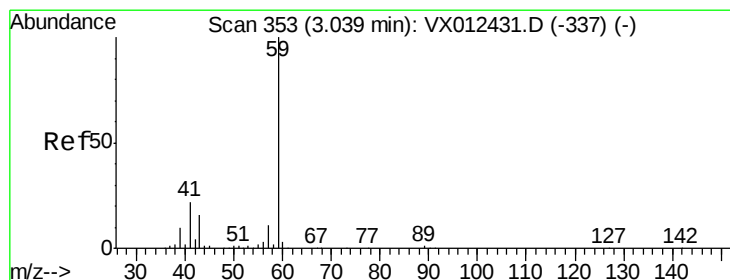
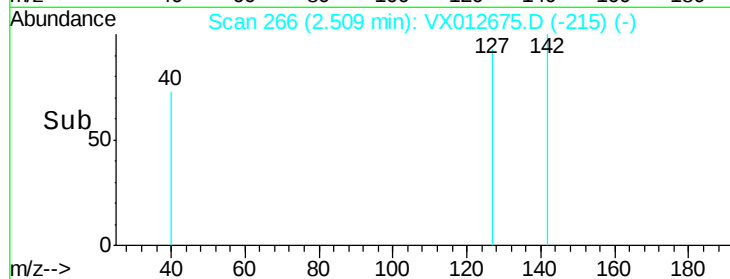
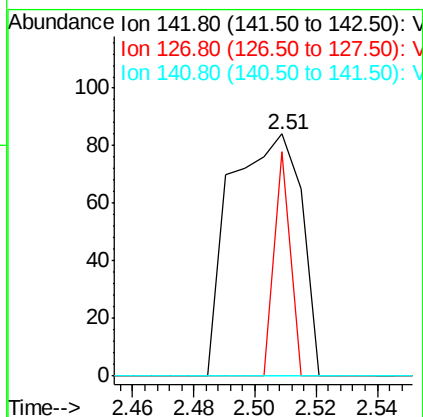
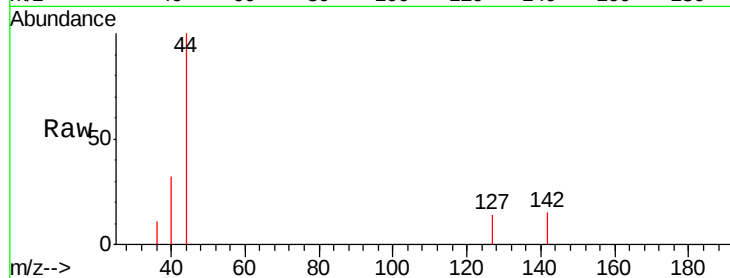




#10
Methyl Iodide
Concen: 5.013 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012675.D
Acq: 26 Sep 2019 15:39

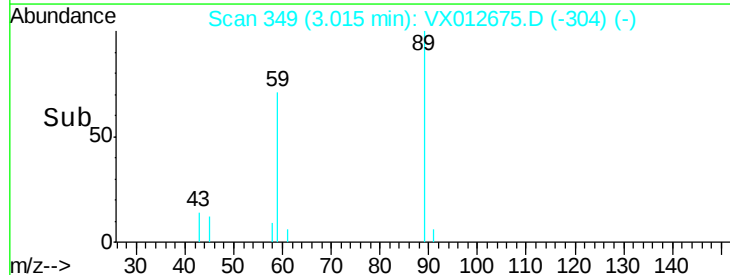
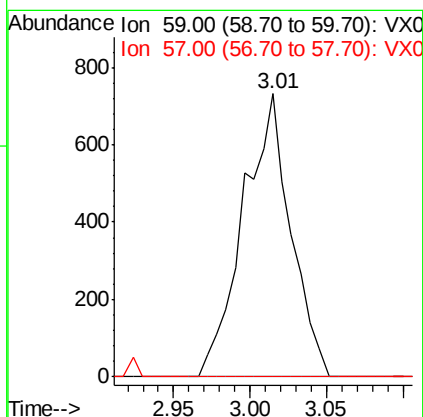
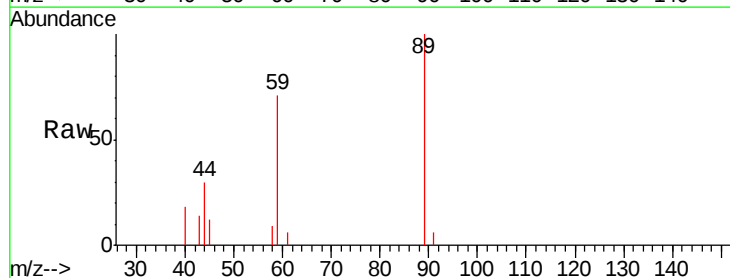
Instrument :
MSVOA_X
ClientSampled :
S49-0527

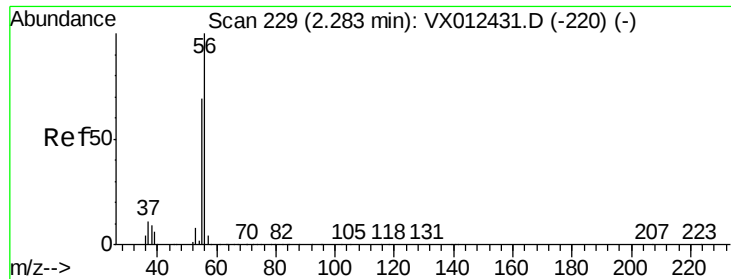
Tgt Ion:142 Resp: 134
Ion Ratio Lower Upper
142 100
127 21.6 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 2.513 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.02 min
Lab File: VX012675.D
Acq: 26 Sep 2019 15:39

Tgt Ion: 59 Resp: 1589
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 10.508 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

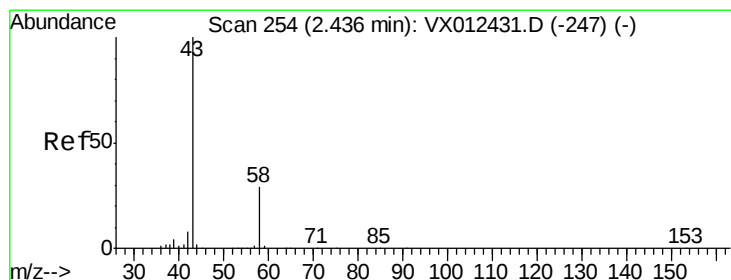
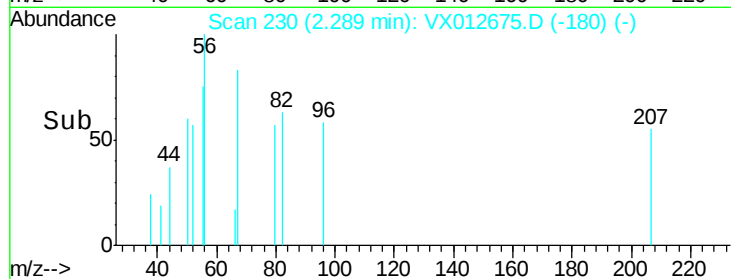
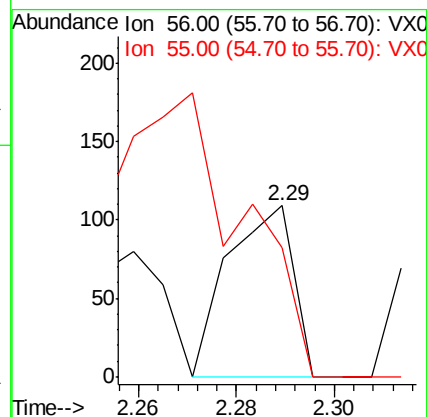
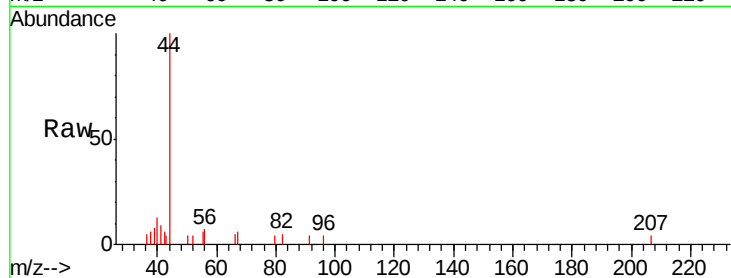
S49-0527

Tgt Ion: 56 Resp: 101

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: 0.833 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012675.D

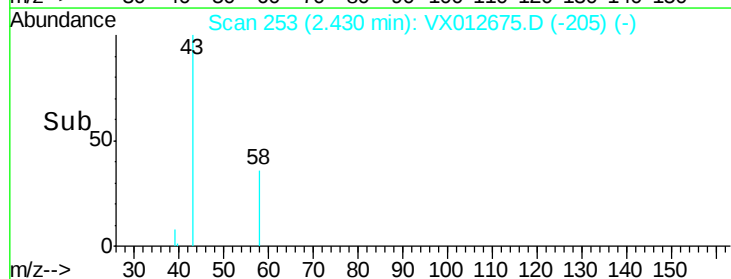
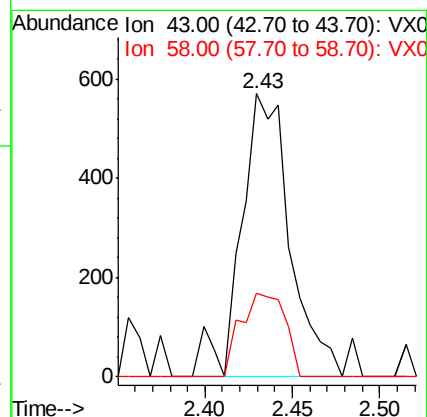
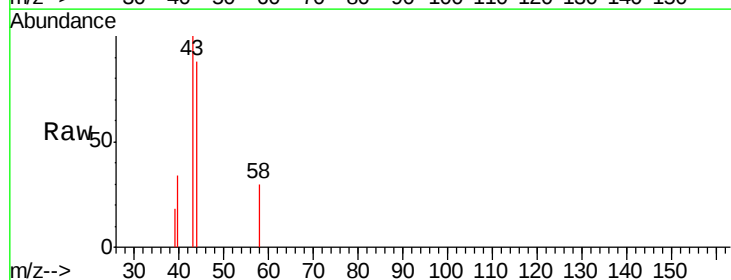
Acq: 26 Sep 2019 15:39

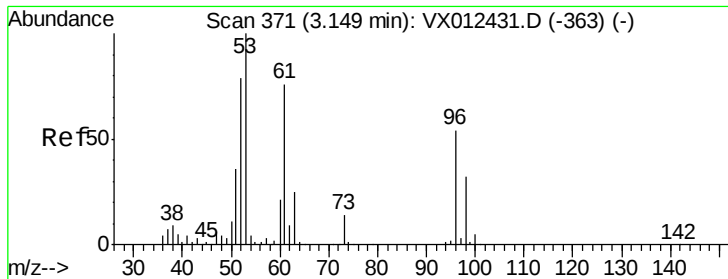
Tgt Ion: 43 Resp: 1117

Ion Ratio Lower Upper

43 100

58 29.8 23.3 34.9





#21

trans-1,2-Dichloroethene

Concen: 15.931 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0527

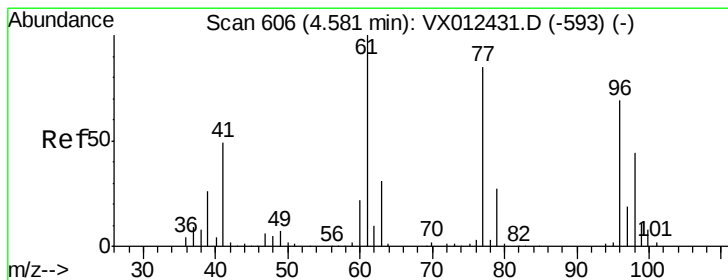
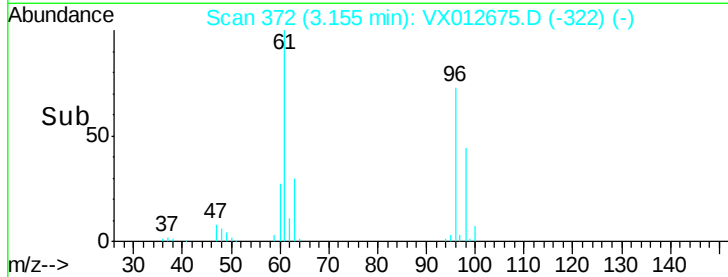
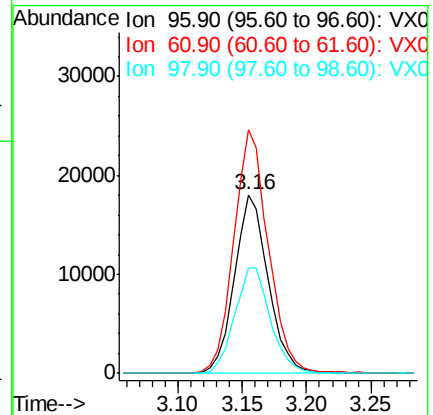
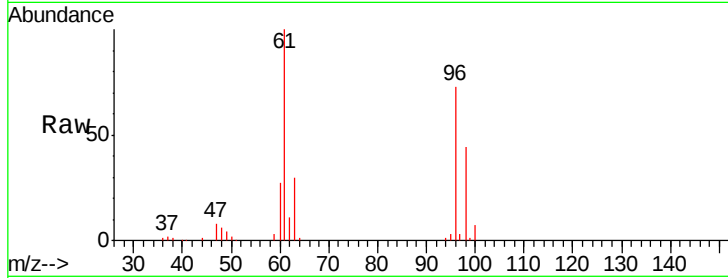
Tgt Ion: 96 Resp: 32987

Ion Ratio Lower Upper

96 100

61 136.5 112.0 168.0

98 59.4 47.8 71.8



#27

cis-1,2-Dichloroethene

Concen: 100.898 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

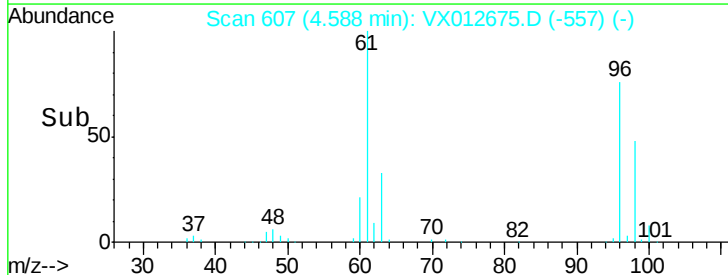
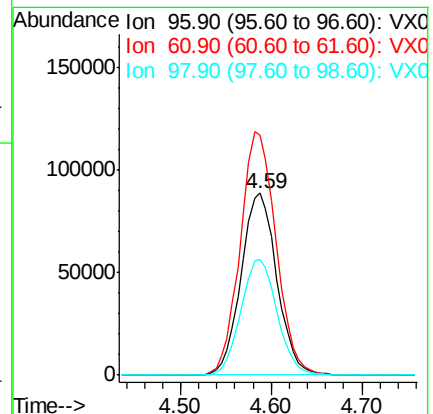
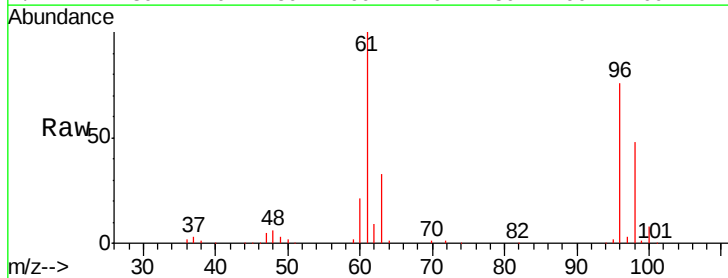
Tgt Ion: 96 Resp: 242422

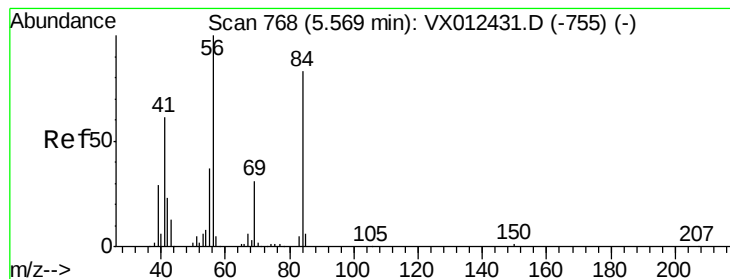
Ion Ratio Lower Upper

96 100

61 134.6 0.0 319.4

98 64.6 0.0 130.6





#31

Cyclohexane

Concen: 1.256 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0527

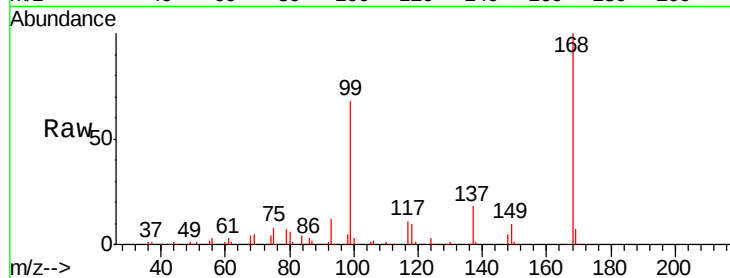
Tgt Ion: 56 Resp: 4426

Ion Ratio Lower Upper

56 100

69 180.2 25.0 37.6#

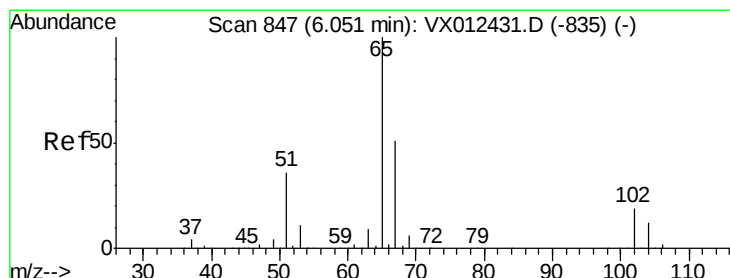
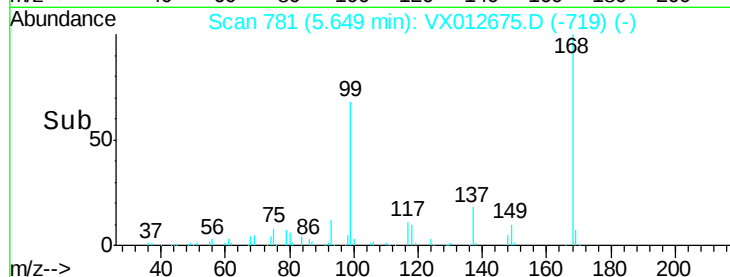
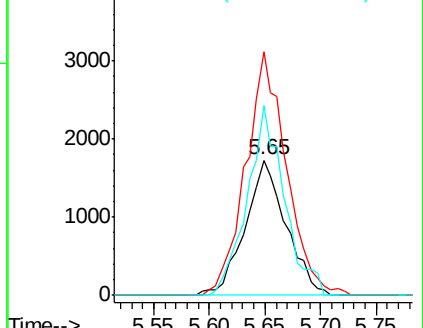
84 140.5 66.4 99.6#



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: 51.516 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012675.D

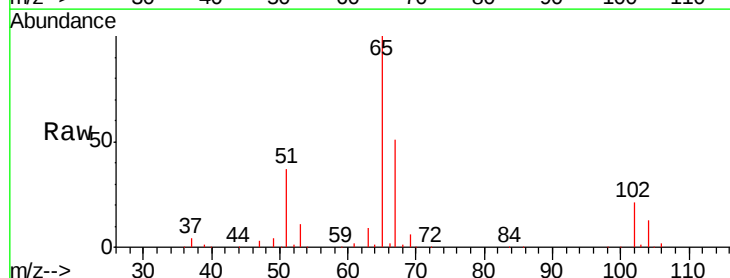
Acq: 26 Sep 2019 15:39

Tgt Ion: 65 Resp: 130410

Ion Ratio Lower Upper

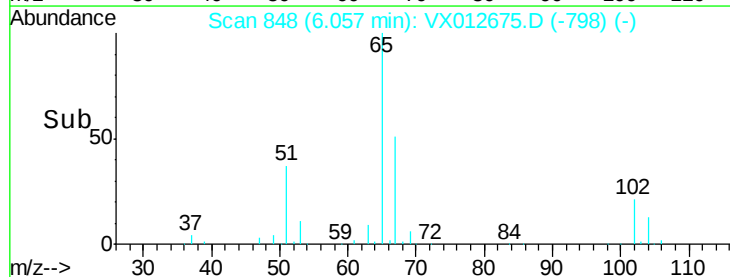
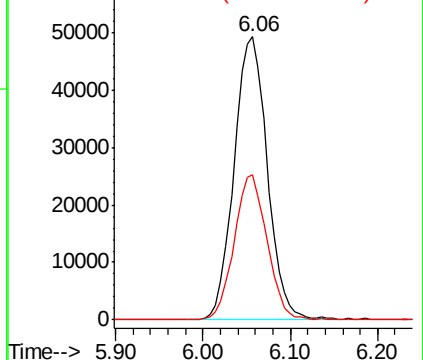
65 100

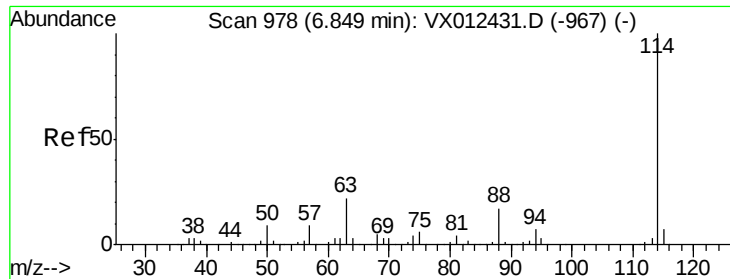
67 50.7 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

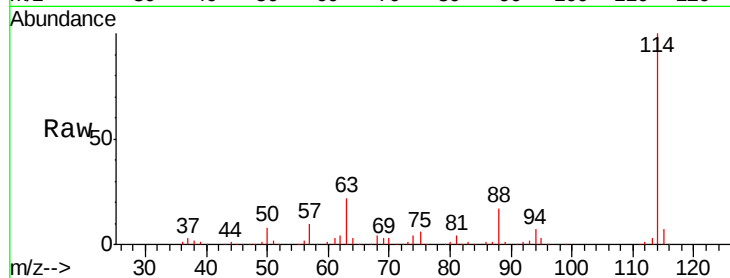




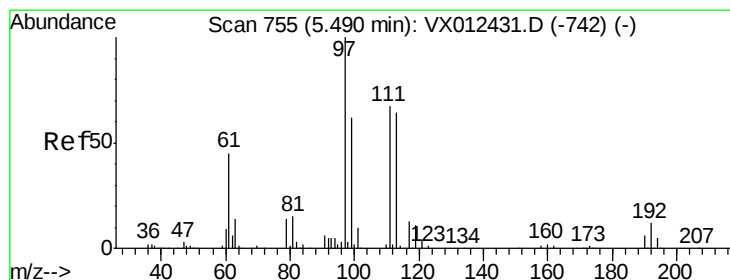
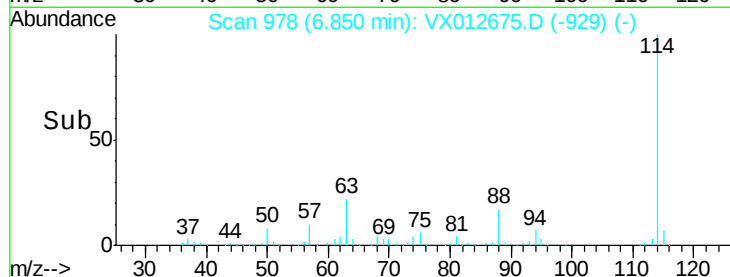
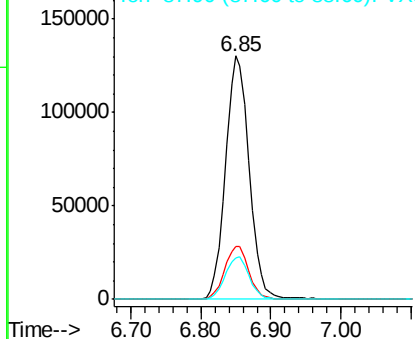
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012675.D
 Acq: 26 Sep 2019 15:39

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-0527

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.2
88	16.8	0.0	33.2

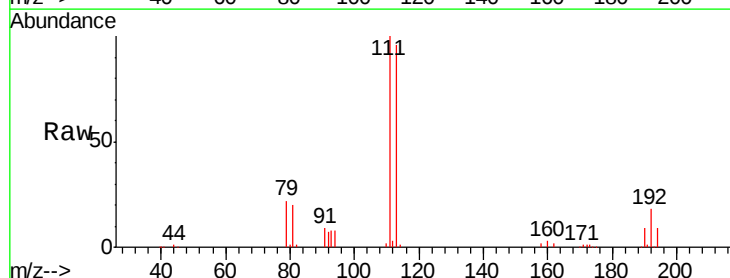


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

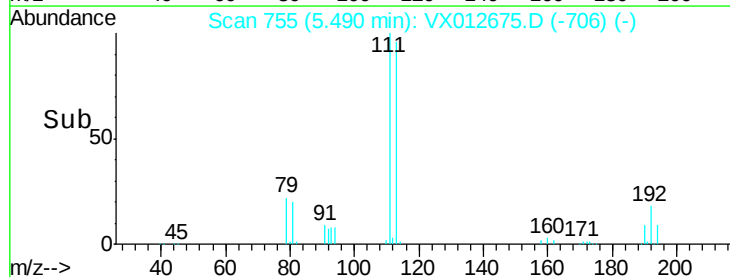
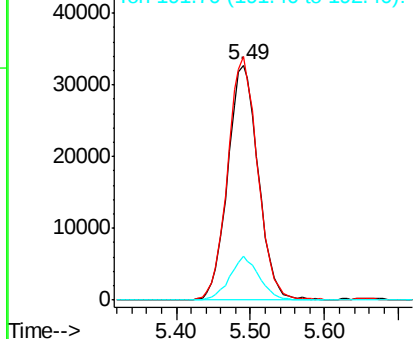


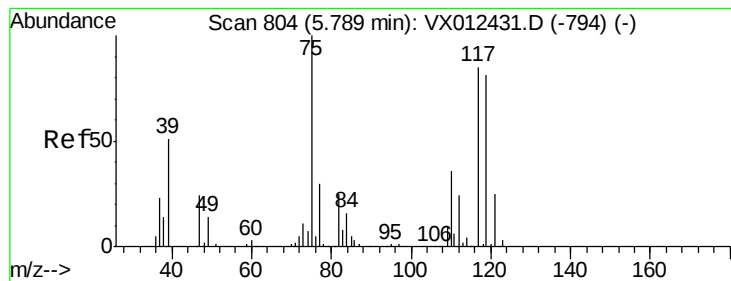
#35
 Dibromofluoromethane
 Concen: 51.518 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012675.D
 Acq: 26 Sep 2019 15:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.4	125.2
192	17.9	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: 5.137 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0527

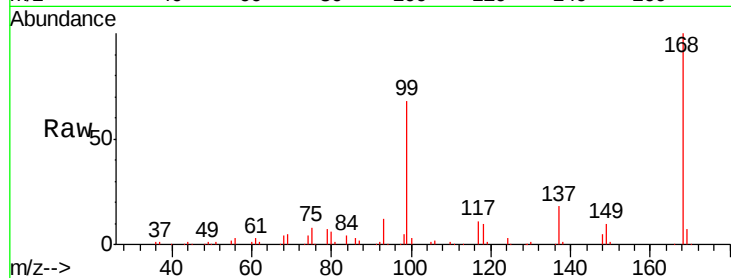
Tgt Ion: 75 Resp: 15170

Ion Ratio Lower Upper

75 100

110 9.6 16.7 50.0#

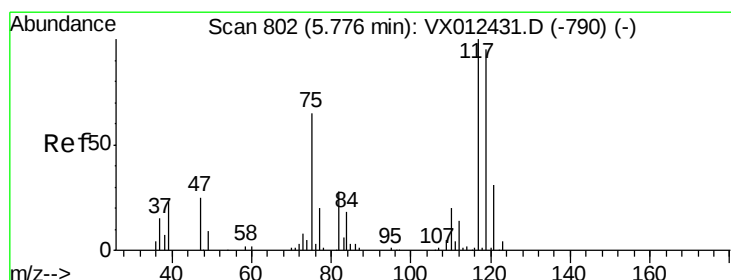
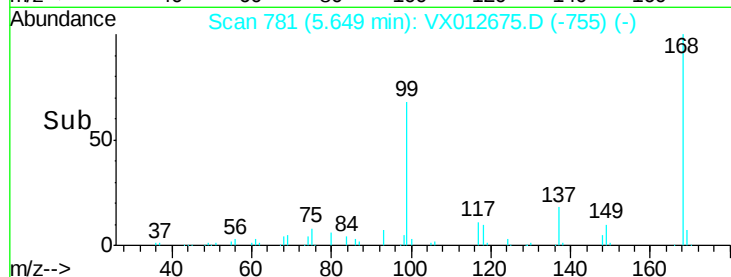
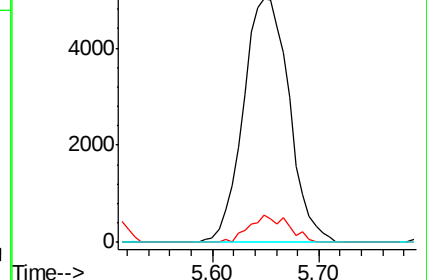
77 0.0 24.2 36.2#



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: 6.442 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

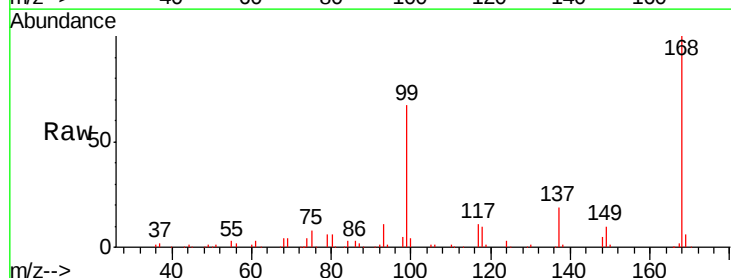
Tgt Ion: 117 Resp: 19324

Ion Ratio Lower Upper

117 100

119 5.5 75.7 113.5#

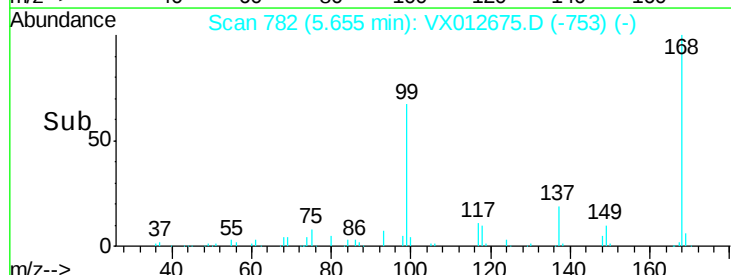
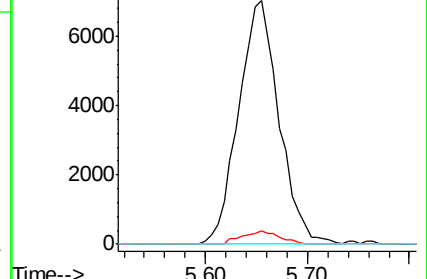
121 0.0 24.2 36.4#

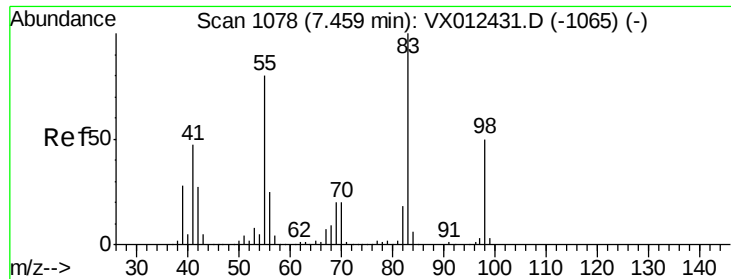


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

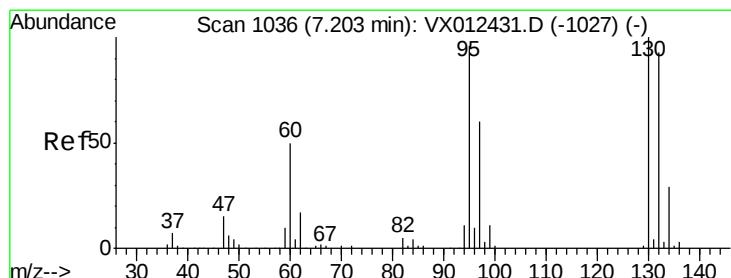
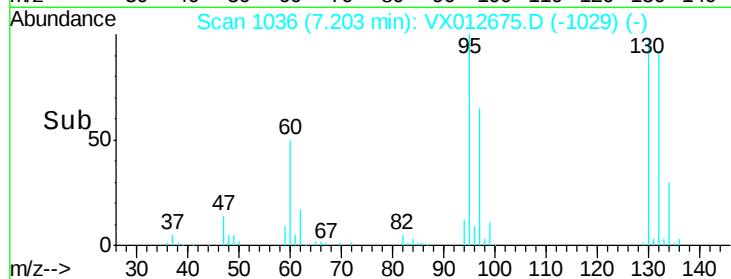
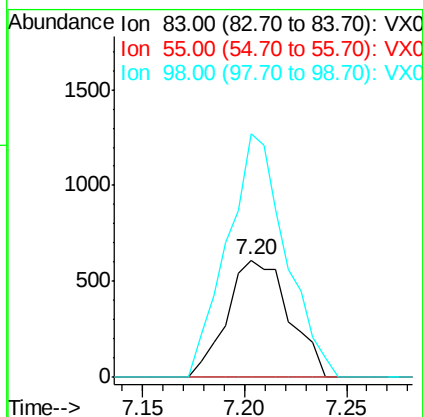
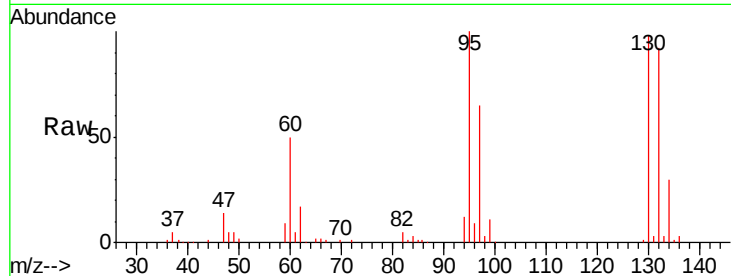




#39
Methylcyclohexane
Concen: 0.363 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. -0.26 min
Lab File: VX012675.D
Acq: 26 Sep 2019 15:39

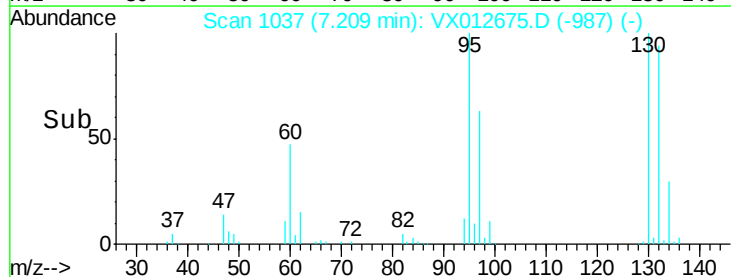
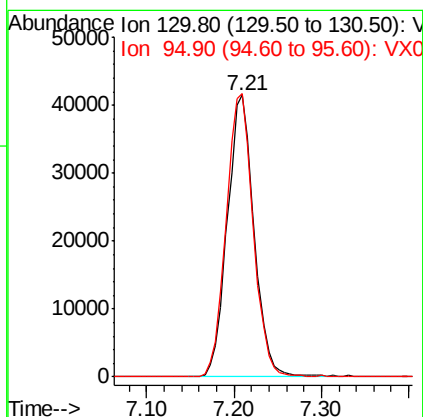
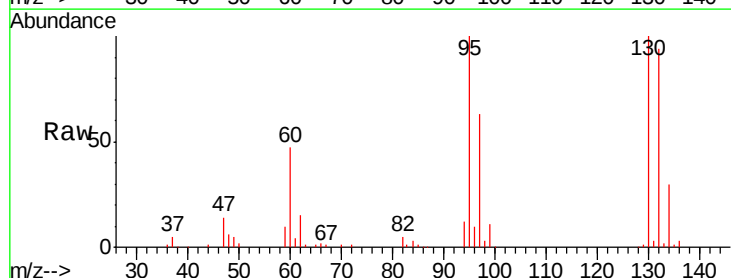
Instrument :
MSVOA_X
ClientSampleId :
S49-0527

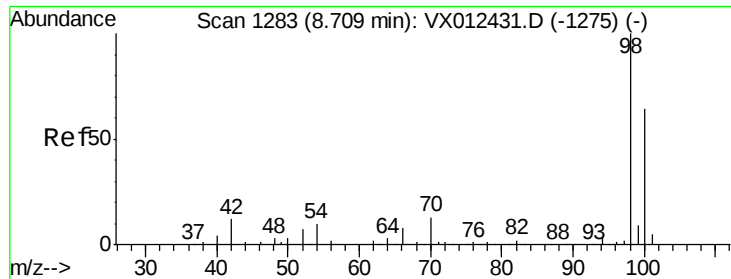
Tgt Ion: 83 Resp: 1289
Ion Ratio Lower Upper
83 100
55 0.0 64.4 96.6#
98 207.7 40.1 60.1#



#44
Trichloroethene
Concen: 39.603 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VX012675.D
Acq: 26 Sep 2019 15:39

Tgt Ion: 130 Resp: 87963
Ion Ratio Lower Upper
130 100
95 100.4 0.0 193.0

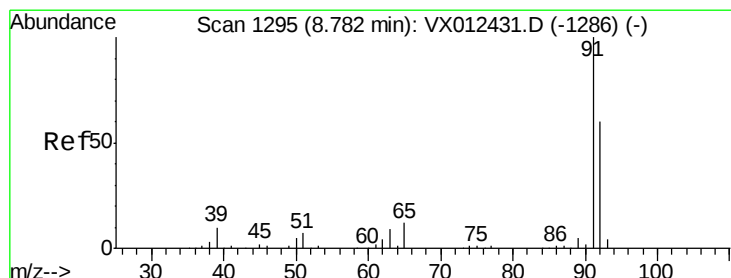
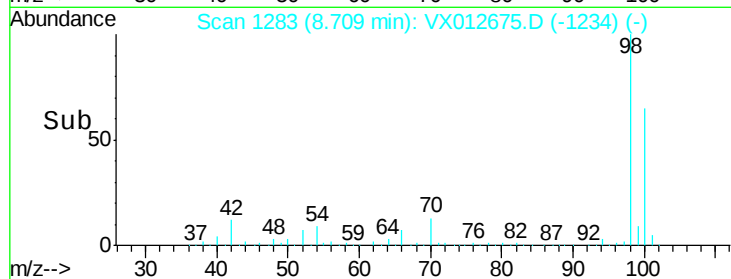
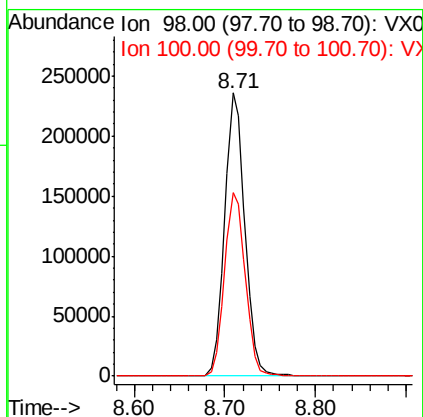
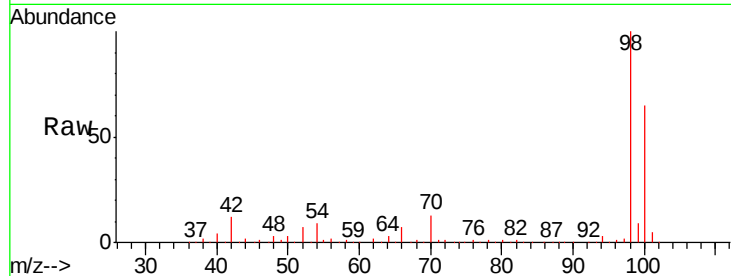




#50
Toluene-d8
Concen: 52.046 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012675.D
Acq: 26 Sep 2019 15:39

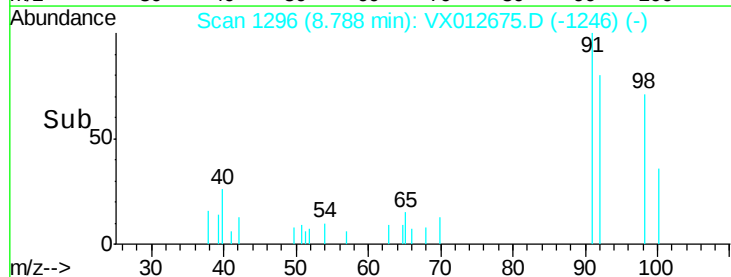
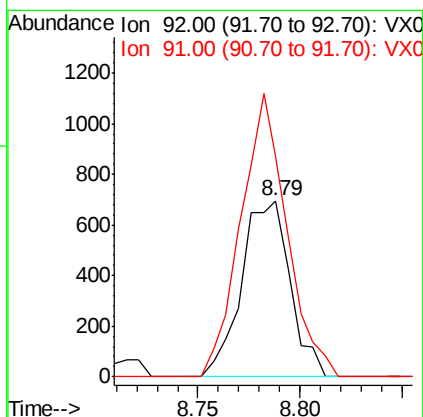
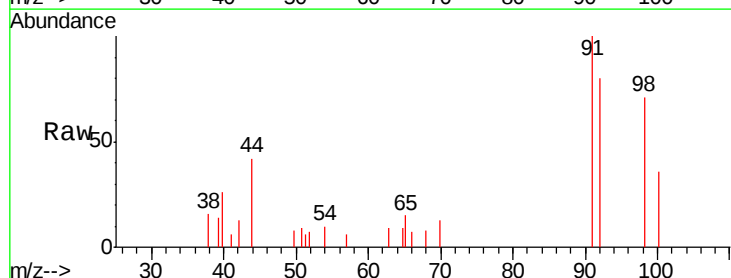
Instrument :
MSVOA_X
ClientSampleId :
S49-0527

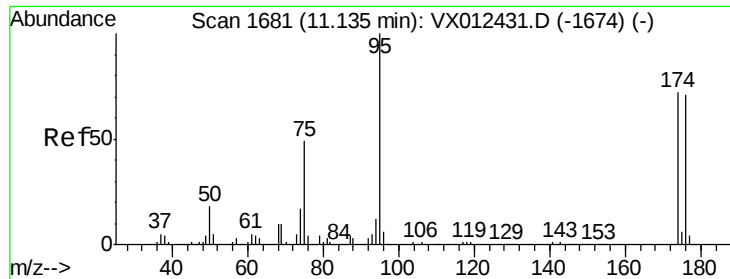
Tgt Ion: 98 Resp: 365677
Ion Ratio Lower Upper
98 100
100 66.7 53.4 80.2



#52
Toluene
Concen: 0.210 ug/l
RT: 8.79 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VX012675.D
Acq: 26 Sep 2019 15:39

Tgt Ion: 92 Resp: 1149
Ion Ratio Lower Upper
92 100
91 152.3 135.4 203.0





#62

4-Bromofluorobenzene

Concen: 46.217 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0527

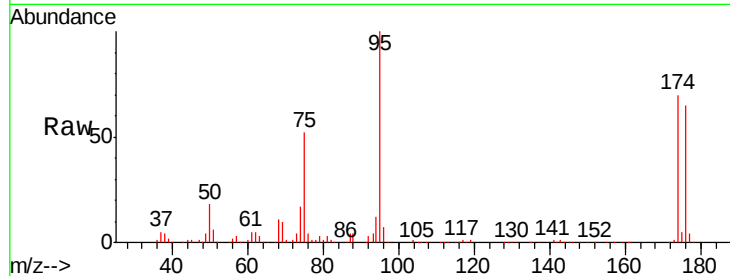
Tgt Ion: 95 Resp: 127684

Ion Ratio Lower Upper

95 100

174 67.4 0.0 140.0

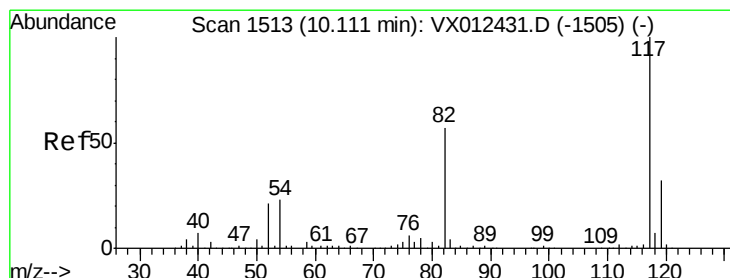
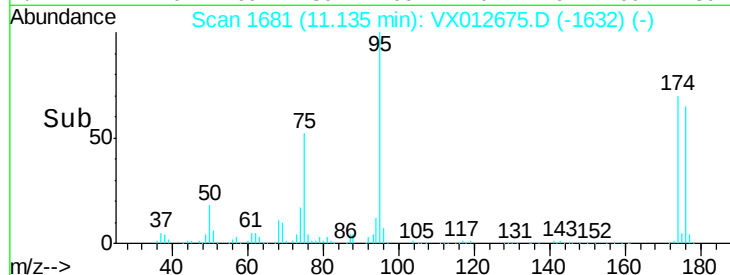
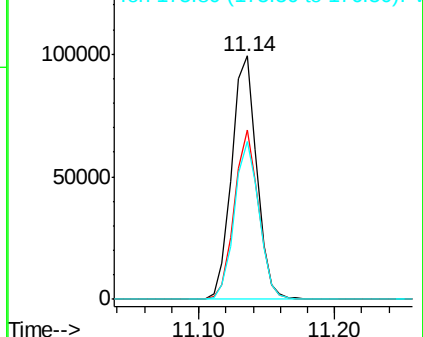
176 63.8 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012675.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012675.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012675.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

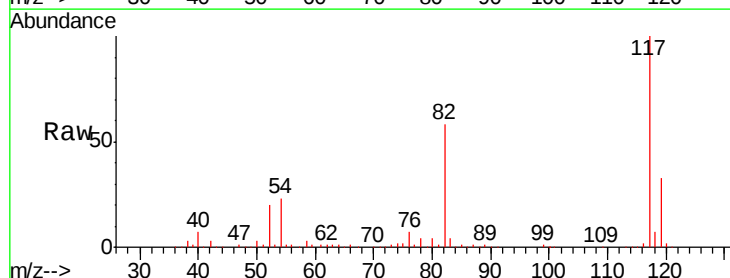
Tgt Ion: 117 Resp: 256333

Ion Ratio Lower Upper

117 100

82 58.3 45.9 68.9

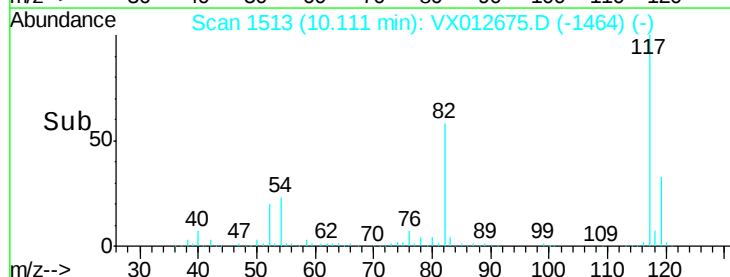
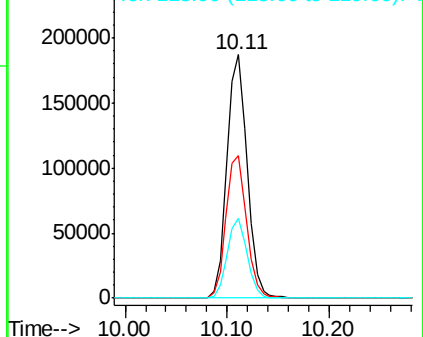
119 33.0 25.3 37.9

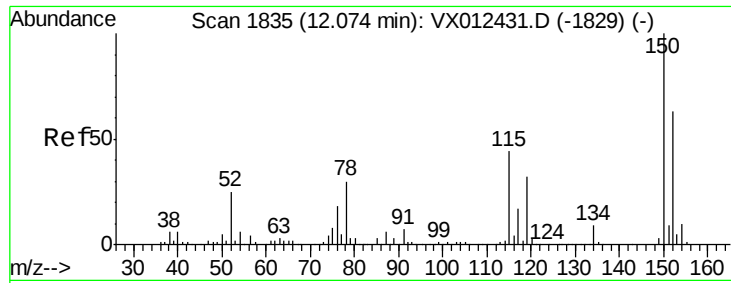


Abundance Ion 116.90 (116.60 to 117.60): VX012675.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012675.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012675.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: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0527

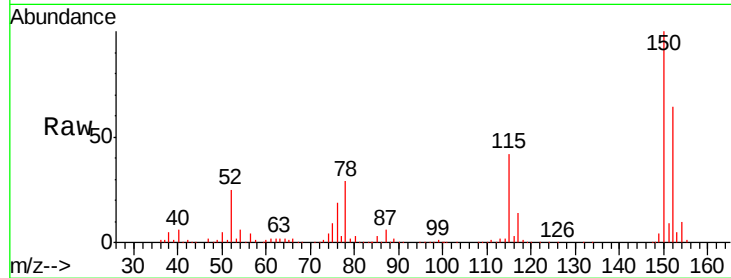
Tgt Ion:152 Resp: 99839

Ion Ratio Lower Upper

152 100

115 66.8 44.1 132.3

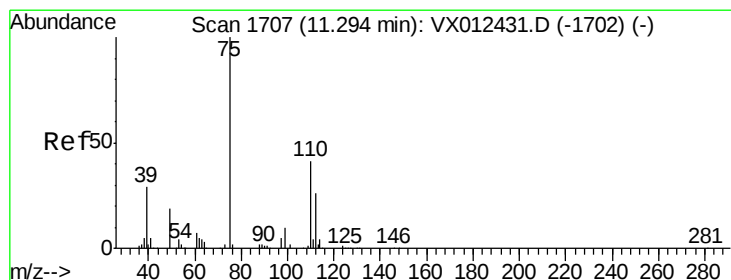
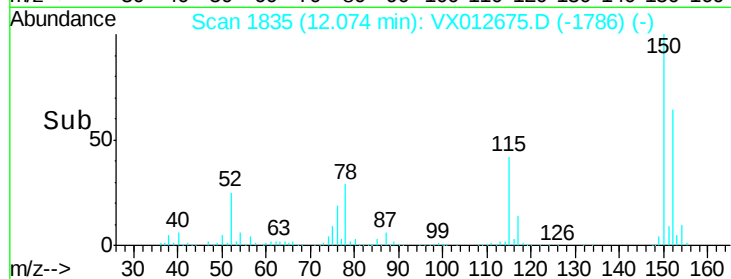
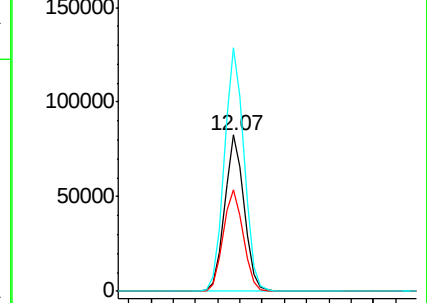
150 157.5 0.0 343.8



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: 25.079 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012675.D

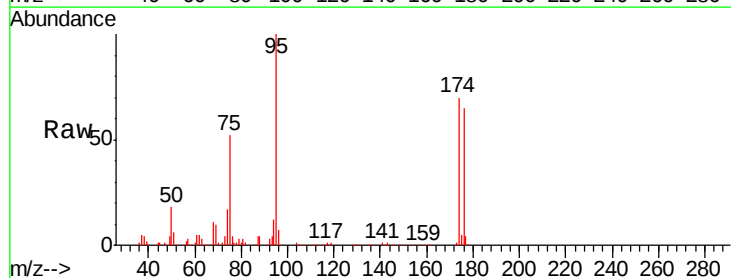
Acq: 26 Sep 2019 15:39

Tgt Ion: 75 Resp: 66232

Ion Ratio Lower Upper

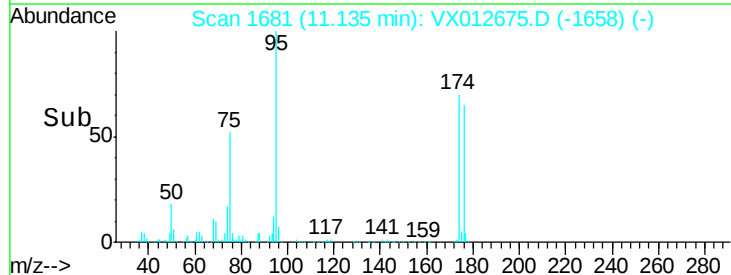
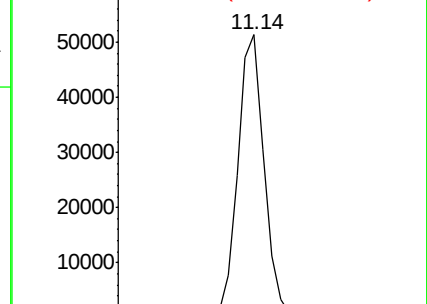
75 100

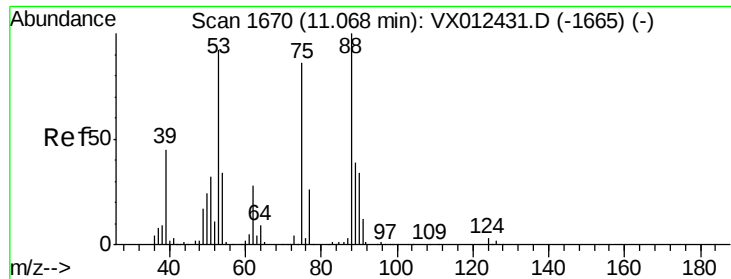
77 1.1 19.7 59.0#



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: 71.869 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012675.D

Acq: 26 Sep 2019 15:39

Instrument :

MSVOA_X

ClientSampleId :

S49-0527

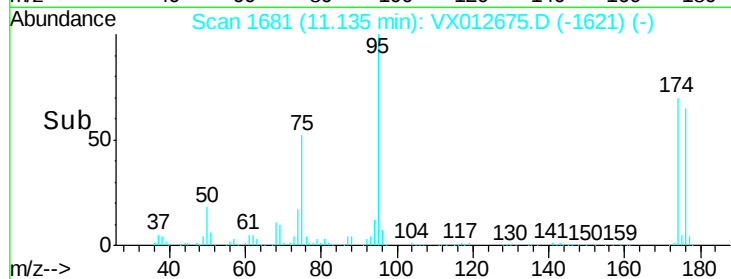
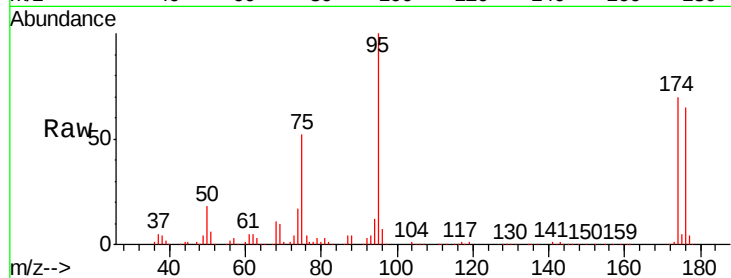
Tgt Ion: 75 Resp: 66232

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

