

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VOX092019\
 Data File : VX012582.D
 Acq On : 21 Sep 2019 01:42
 Operator : JC/SP
 Sample : K4956-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-ER-2019-2

Quant Time: Sep 21 04:03:07 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	176207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	281523	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	238090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	98010	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	117996	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
35) Dibromofluoromethane	5.49	113	84420	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
50) Toluene-d8	8.71	98	322111	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.14	95	114991	43.91	ug/l	0.00
Spiked Amount			Recovery	=	87.82%	

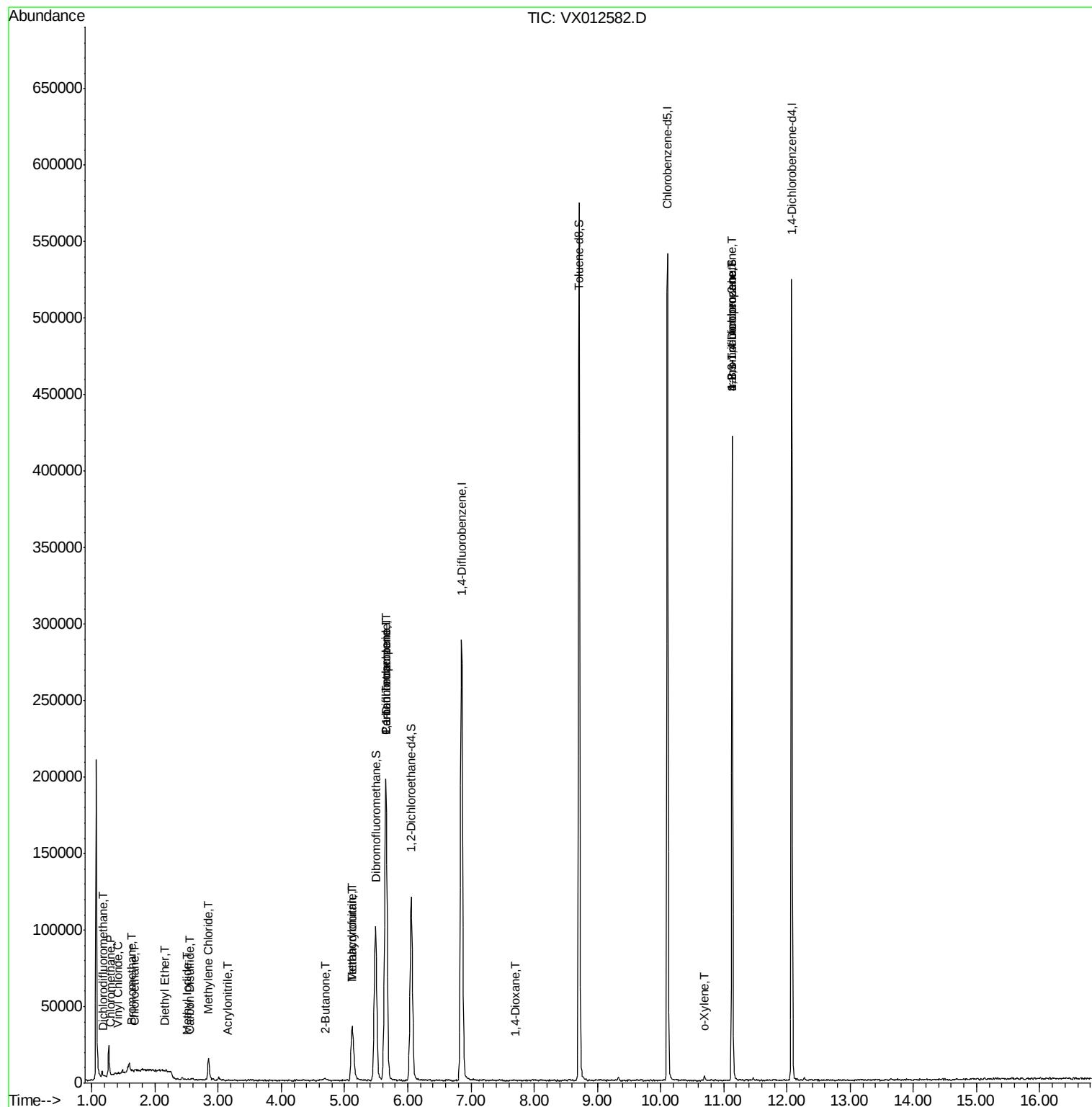
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	20	0.408	ug/l #	43
3) Chloromethane	1.30	50	196	0.202	ug/l #	43
4) Vinyl Chloride	1.40	62	290	0.277	ug/l #	55
5) Bromomethane	1.64	94	284	0.690	ug/l #	26
6) Chloroethane	1.67	64	278	0.339	ug/l #	83
8) Diethyl Ether	2.16	74	242	0.279	ug/l	100
10) Methyl Iodide	2.50	142	141	4.550	ug/l #	91
11) Tert butyl alcohol	3.00	59	1322	Below Cal	#	82
13) Acrolein	2.30	56	244	Below Cal	#	75
15) Acrylonitrile	3.15	53	316	0.289	ug/l #	54
16) Acetone	2.44	43	1326	Below Cal	#	87
17) Carbon Disulfide	2.55	76	651	2.207	ug/l #	85
20) Methylene Chloride	2.84	84	6438	4.212	ug/l	93
25) 2-Butanone	4.70	43	972	0.555	ug/l #	51
29) Tetrahydrofuran	5.12	42	34434	35.582	ug/l	98
36) 1,1-Dichloropropene	5.65	75	15269	8.924	ug/l #	53
38) Carbon Tetrachloride	5.65	117	19451	9.141	ug/l #	18
41) Methacrylonitrile	5.12	41	19980	11.815	ug/l #	50
49) 1,4-Dioxane	7.70	88	24	0.444	ug/l #	1
69) o-Xylene	10.70	106	531	0.210	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	60276	26.773	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	60276	72.047	ug/l #	8

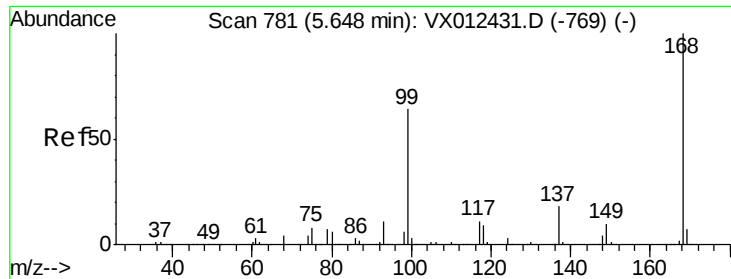
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

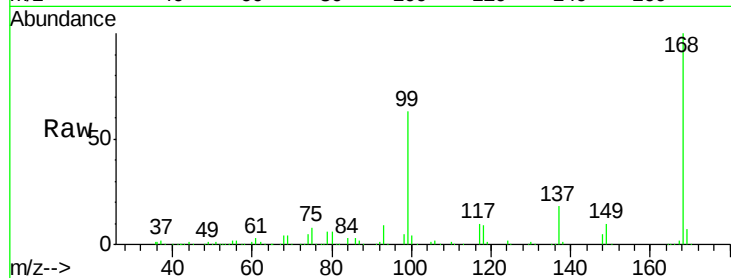
S49-ER-2019-2

Tot Ion:168 Resp: 176207

Ion Ratio Lower Upper

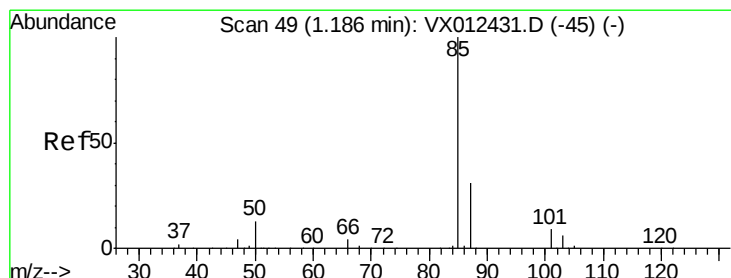
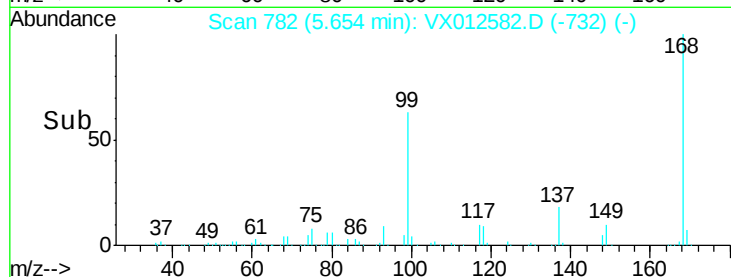
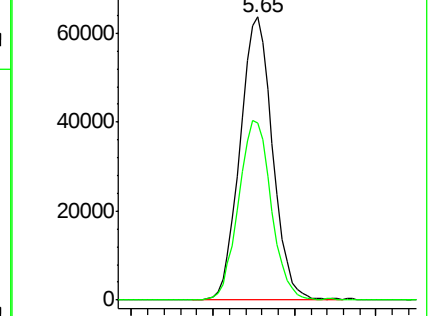
168 100

99 62.6 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: 0.408 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX012582.D

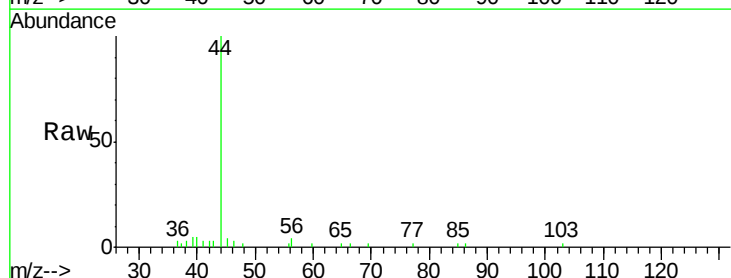
Acq: 21 Sep 2019 01:42

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

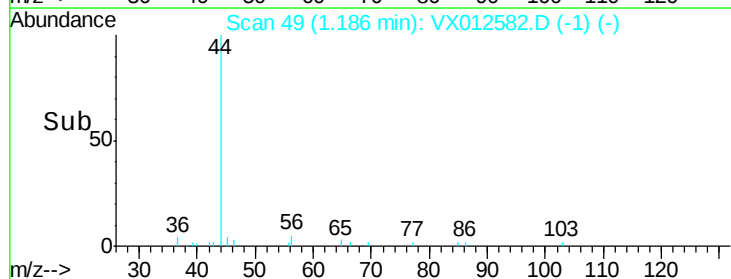
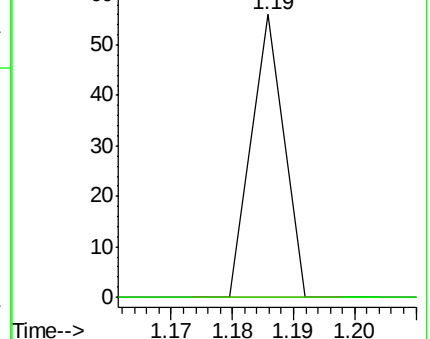
85 100

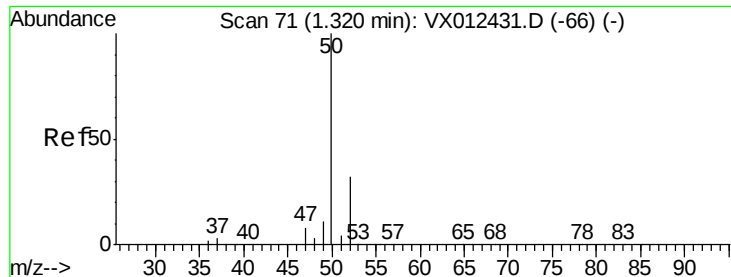
87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.202 ug/l

RT: 1.30 min Scan# 67

Delta R.T. -0.02 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

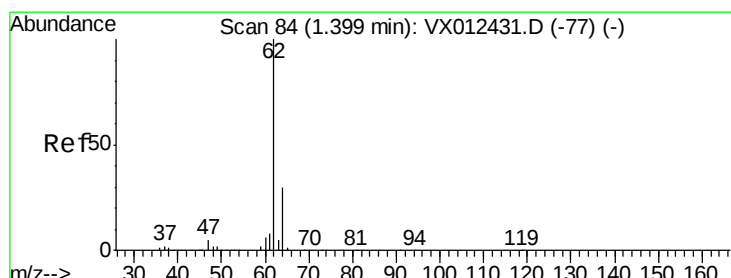
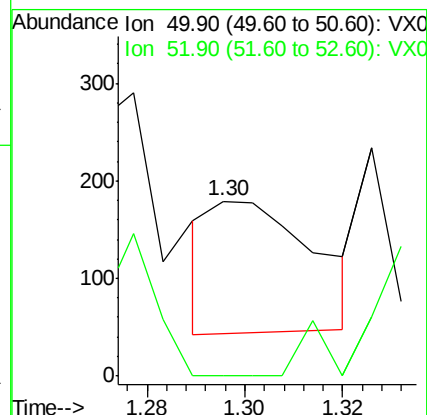
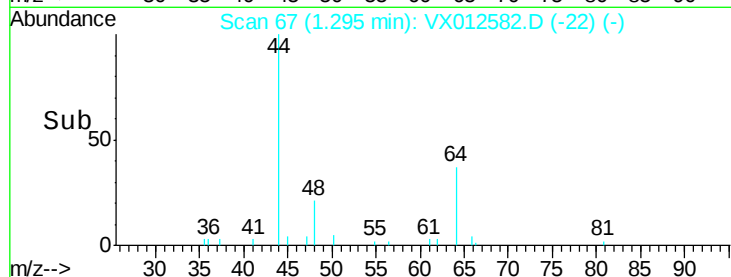
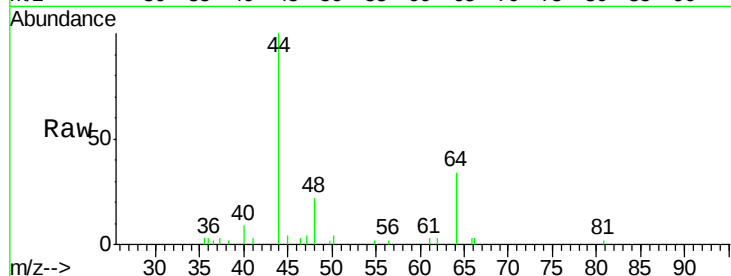
S49-ER-2019-2

Tot Ion: 50 Resp: 196

Ion Ratio Lower Upper

50 100

52 0.0 25.7 38.5#



#4

Vinyl Chloride

Concen: 0.277 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012582.D

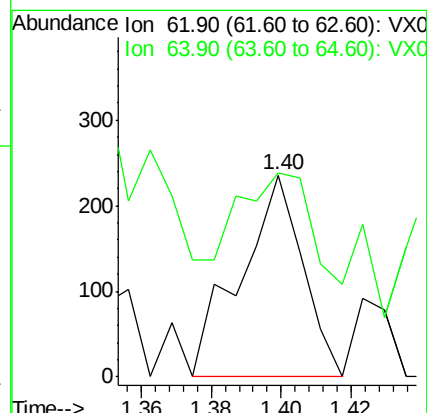
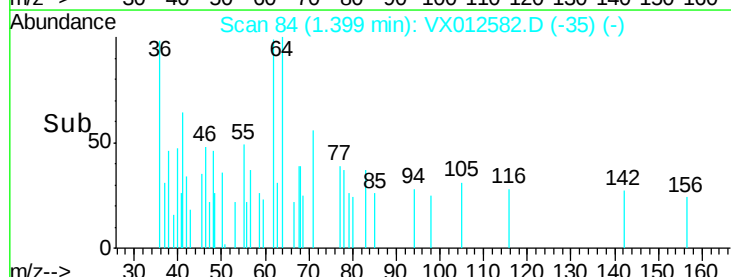
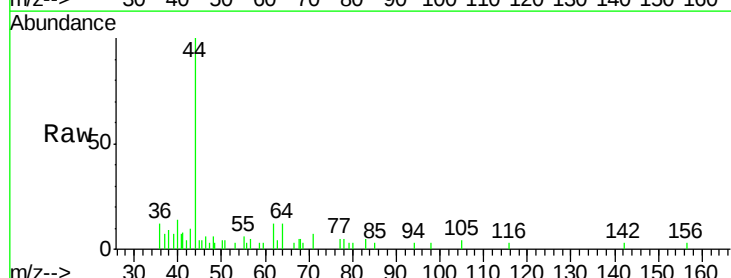
Acq: 21 Sep 2019 01:42

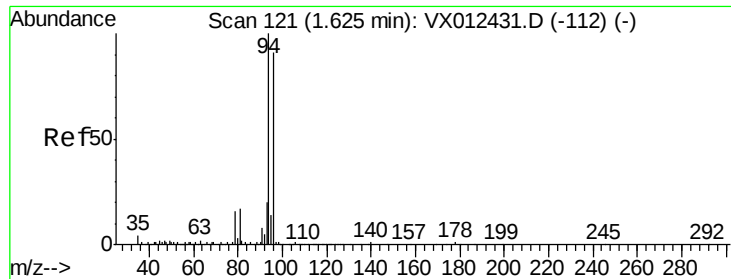
Tgt Ion: 62 Resp: 290

Ion Ratio Lower Upper

62 100

64 54.7 24.2 36.2#





#5

Bromomethane

Concen: 0.690 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

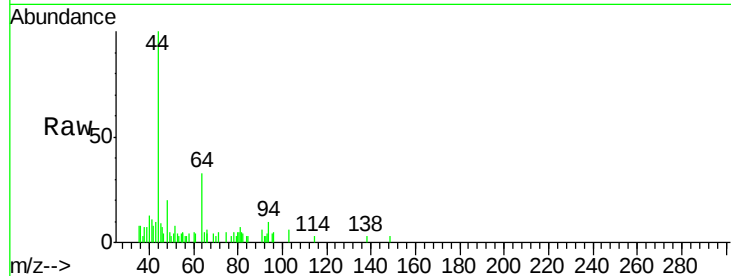
S49-ER-2019-2

Tot Ion: 94 Resp: 284

Ion Ratio Lower Upper

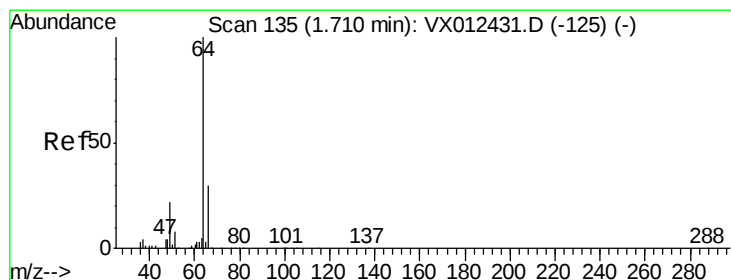
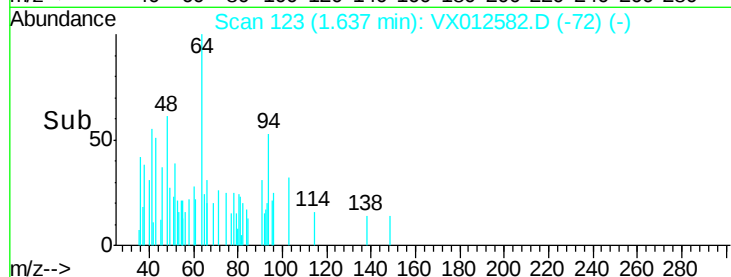
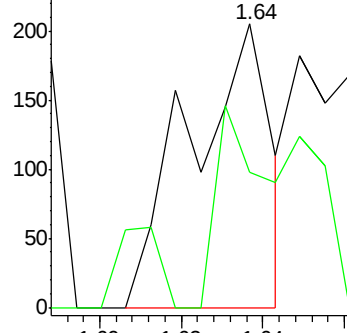
94 100

96 20.5 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: 0.339 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX012582.D

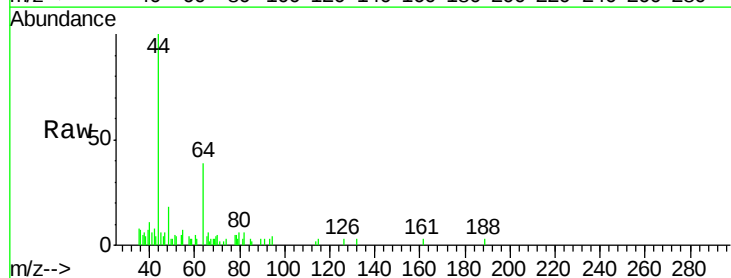
Acq: 21 Sep 2019 01:42

Tgt Ion: 64 Resp: 278

Ion Ratio Lower Upper

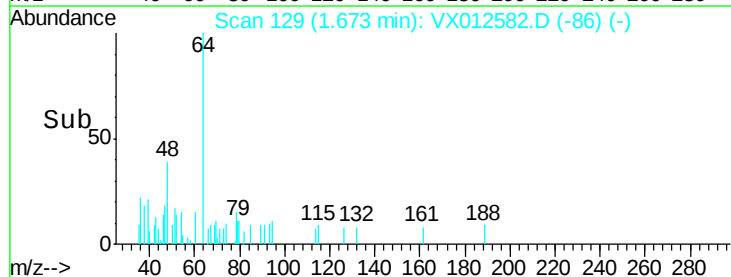
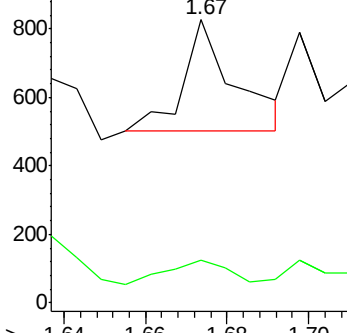
64 100

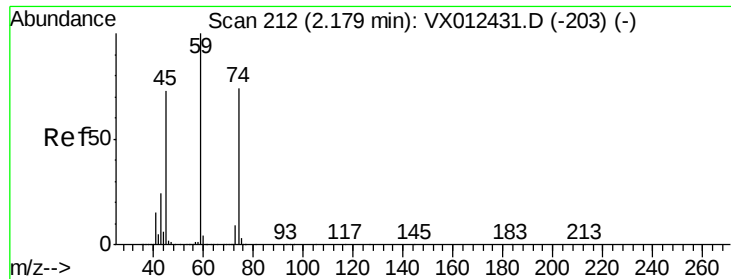
66 21.1 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.279 ug/l

RT: 2.16 min Scan# 209

Delta R.T. -0.02 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

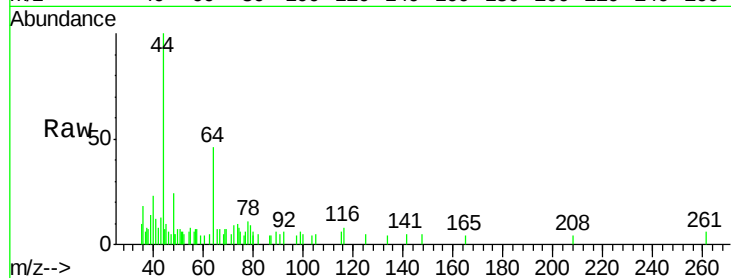
S49-ER-2019-2

Tot Ion: 74 Resp: 242

Ion Ratio Lower Upper

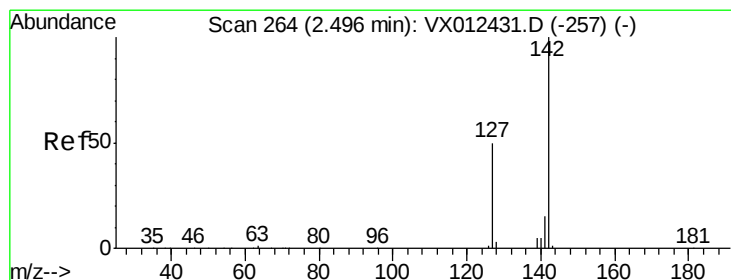
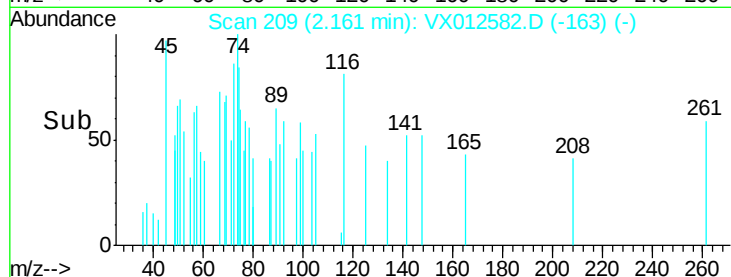
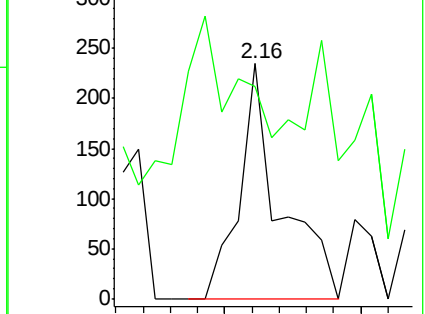
74 100

45 99.6 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: 4.550 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

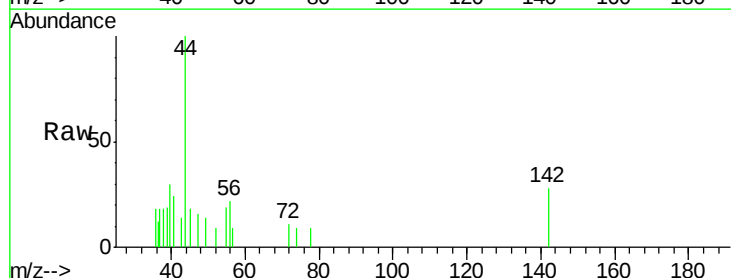
Tgt Ion: 142 Resp: 141

Ion Ratio Lower Upper

142 100

127 50.4 40.8 61.2

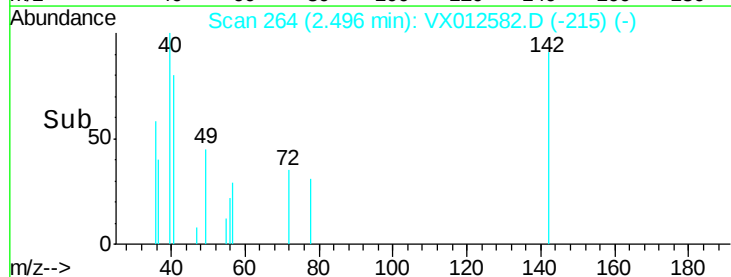
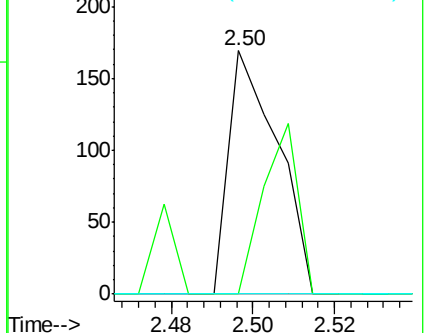
141 0.0 12.1 18.1#

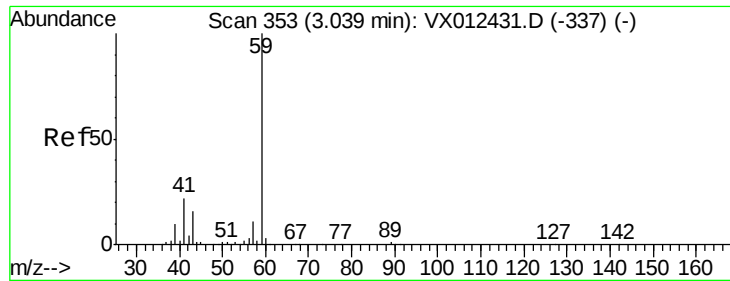


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

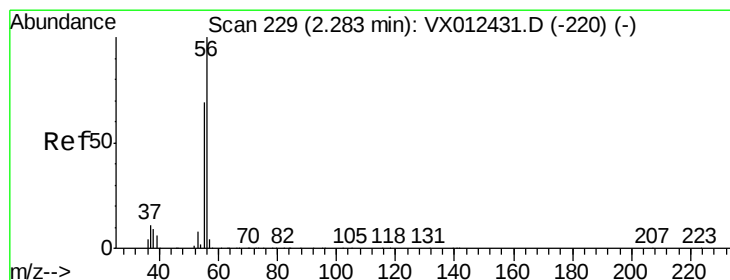
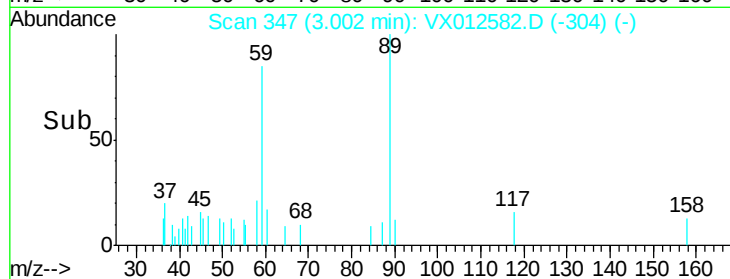
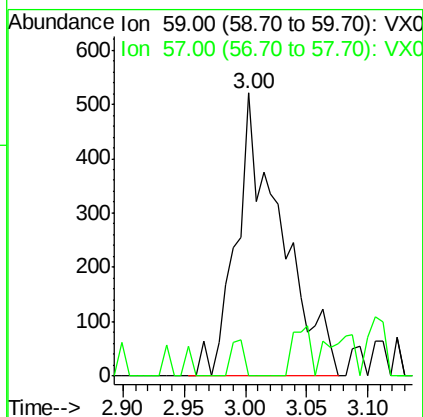
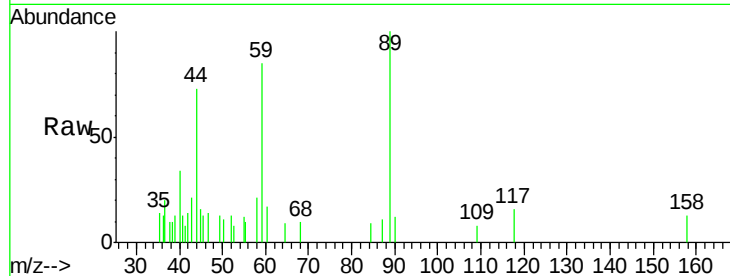




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX012582.D
Acq: 21 Sep 2019 01:42

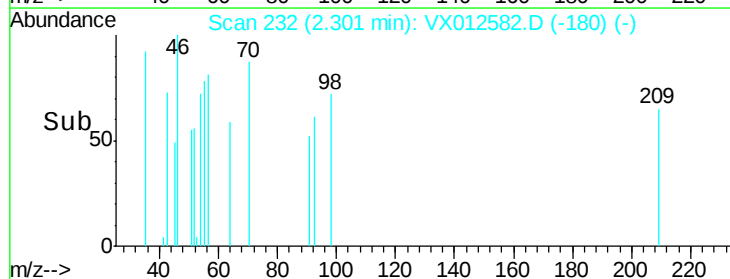
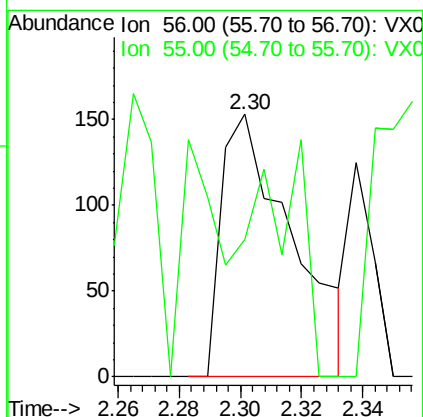
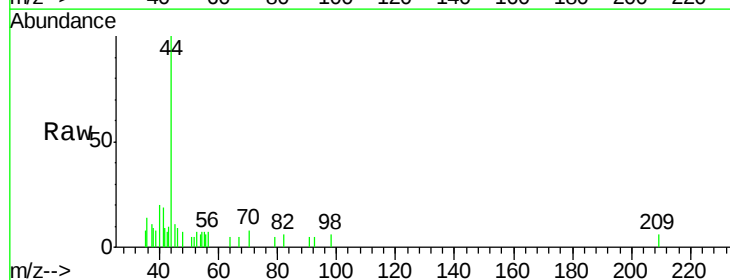
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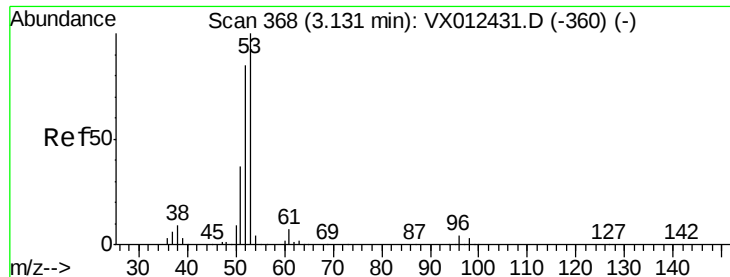
Tot Ion: 59 Resp: 1322
Ion Ratio Lower Upper
59 100
57 3.6 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX012582.D
Acq: 21 Sep 2019 01:42

Tgt Ion: 56 Resp: 244
Ion Ratio Lower Upper
56 100
55 49.6 55.8 83.8#

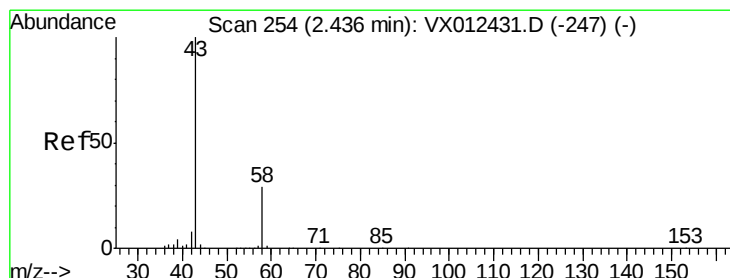
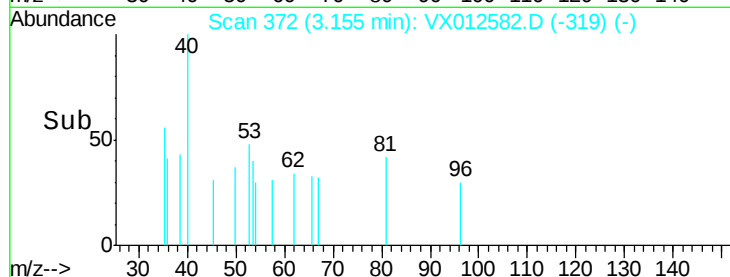
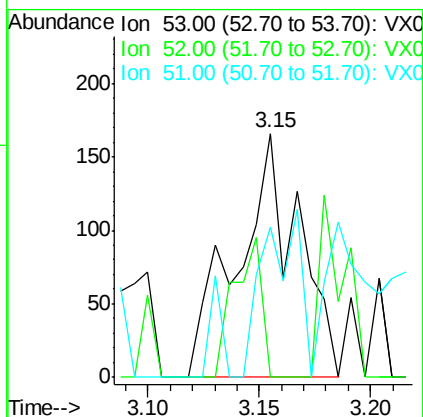
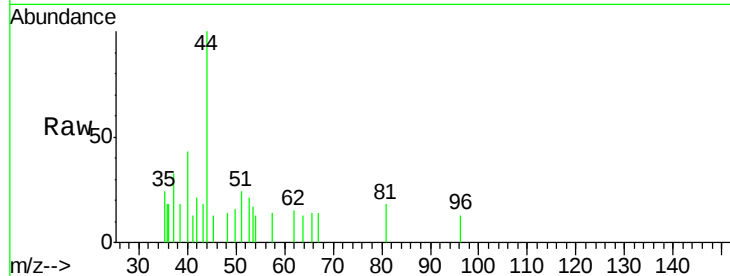




#15
 Acrylonitrile
 Concen: 0.289 ug/l
 RT: 3.15 min Scan# 372
 Delta R.T. 0.02 min
 Lab File: VX012582.D
 Acq: 21 Sep 2019 01:42

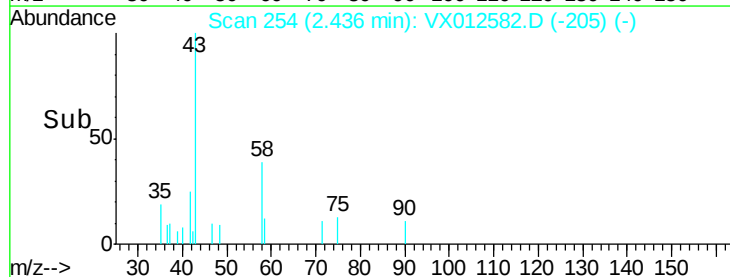
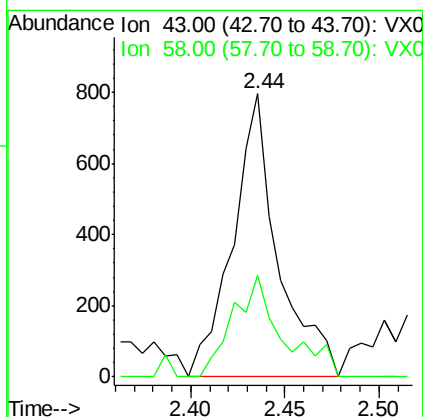
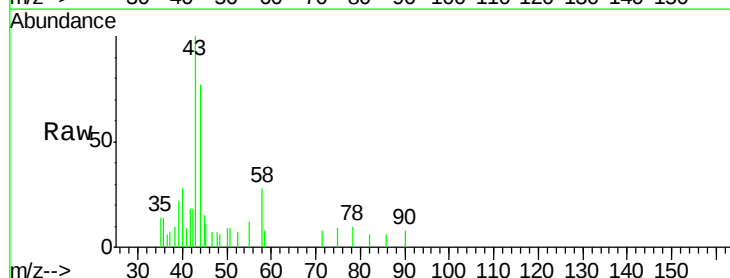
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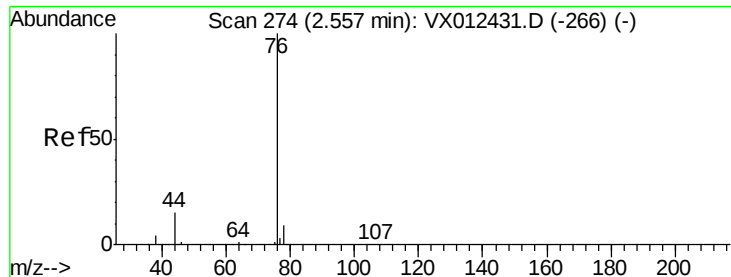
Tot Ion: 53 Resp: 316
 Ion Ratio Lower Upper
 53 100
 52 25.9 67.0 100.4#
 51 40.8 29.6 44.4



#16
 Acetone
 Concen: Below Cal
 RT: 2.44 min Scan# 254
 Delta R.T. 0.00 min
 Lab File: VX012582.D
 Acq: 21 Sep 2019 01:42

Tgt Ion: 43 Resp: 1326
 Ion Ratio Lower Upper
 43 100
 58 35.8 23.3 34.9#

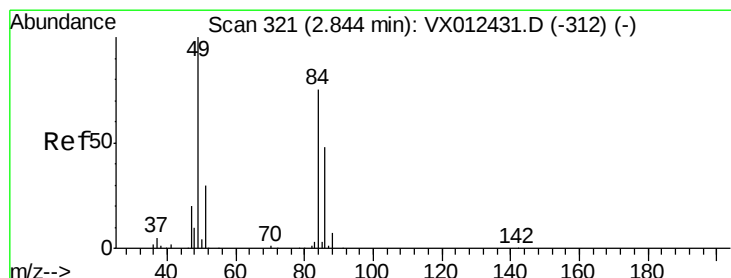
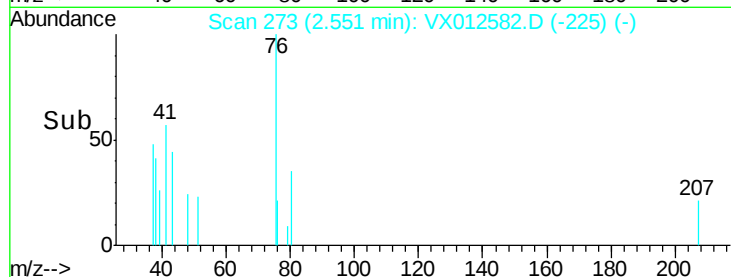
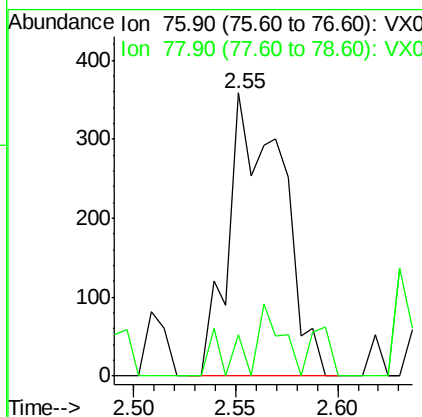
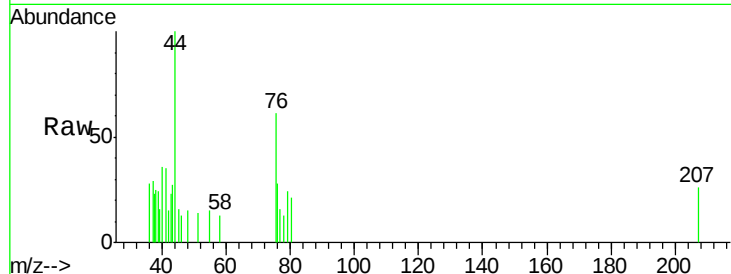




#17
Carbon Disulfide
Concen: 2.207 ug/l
RT: 2.55 min Scan# 273
Delta R.T. -0.01 min
Lab File: VX012582.D
Acq: 21 Sep 2019 01:42

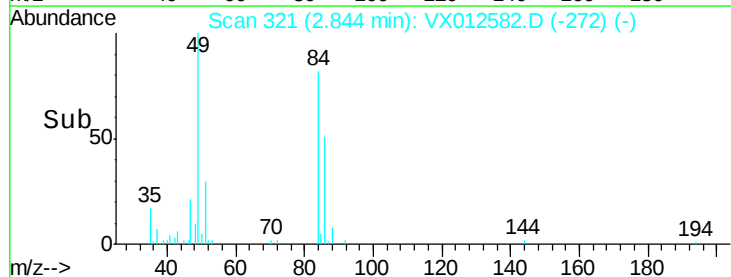
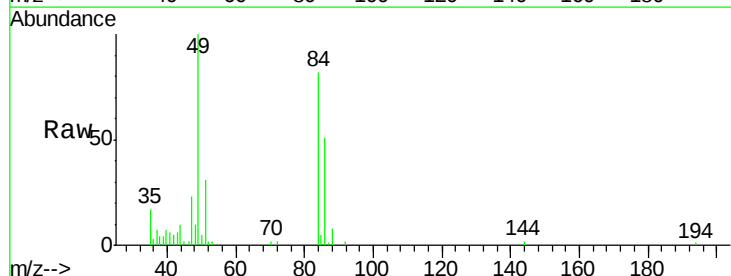
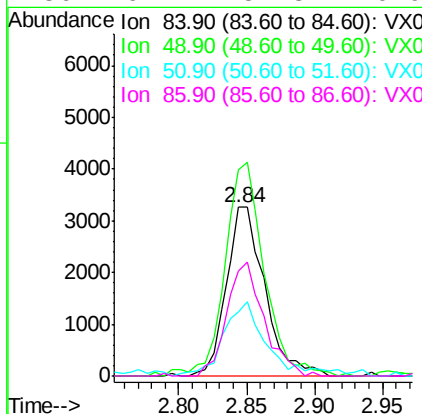
Instrument :
MSVOA_X
ClientSampleId :
S49-ER-2019-2

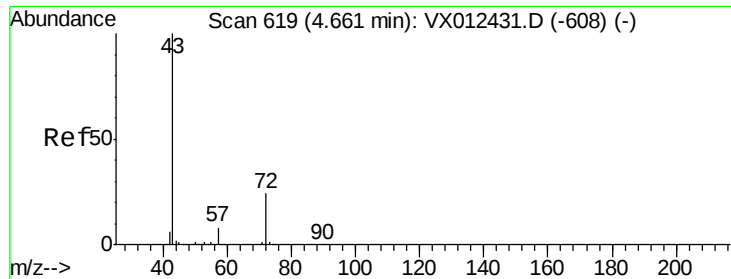
Tot Ion: 76 Resp: 651
Ion Ratio Lower Upper
76 100
78 14.5 7.3 10.9#



#20
Methylene Chloride
Concen: 4.212 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012582.D
Acq: 21 Sep 2019 01:42

Tgt Ion: 84 Resp: 6438
Ion Ratio Lower Upper
84 100
49 122.4 106.8 160.2
51 35.6 32.3 48.5
86 62.2 51.3 76.9





#25

2-Butanone

Concen: 0.555 ug/l

RT: 4.70 min Scan# 625

Delta R.T. 0.04 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

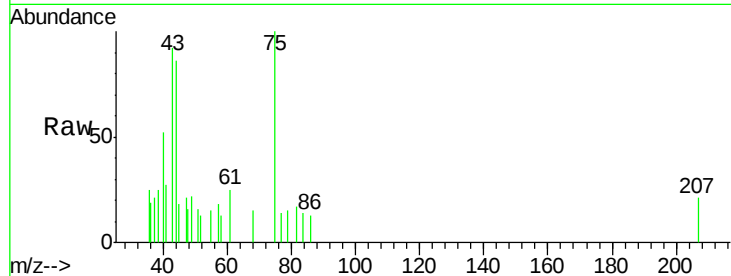
S49-ER-2019-2

Tot Ion: 43 Resp: 972

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



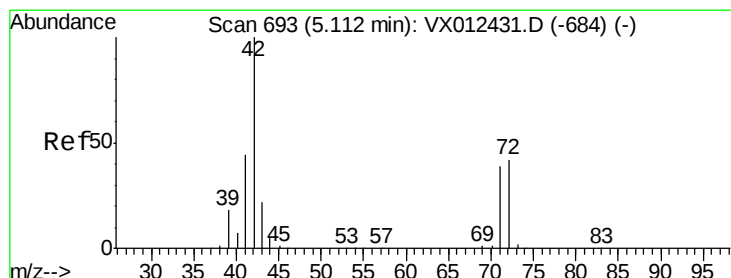
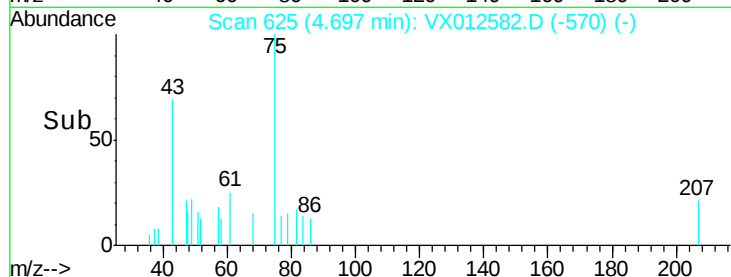
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

4.65 4.70 4.75

Time-->



#29

Tetrahydrofuran

Concen: 35.582 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

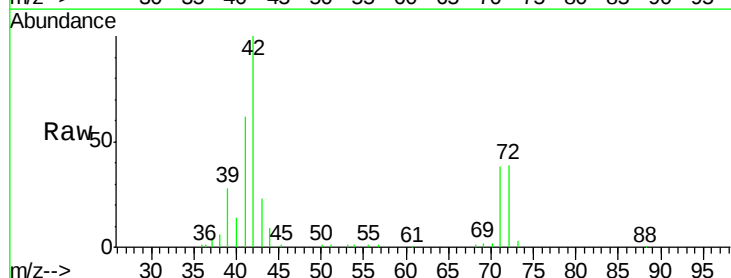
Tgt Ion: 42 Resp: 34434

Ion Ratio Lower Upper

42 100

72 40.9 34.0 51.0

71 38.3 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

15000

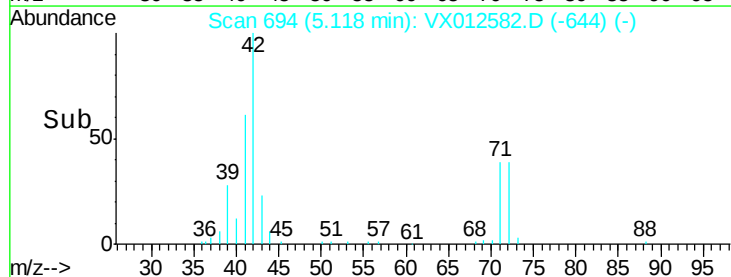
10000

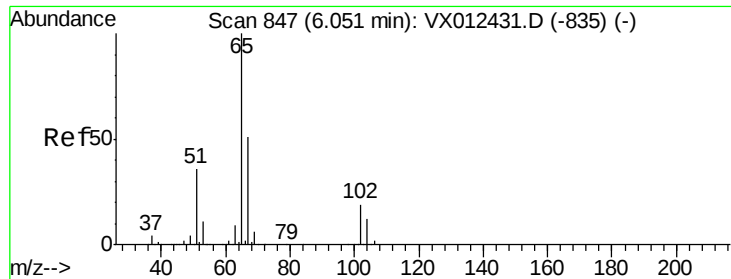
5000

0

5.00 5.10 5.20 5.30

Time-->





#33

1,2-Dichloroethane-d4

Concen: 46.724 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

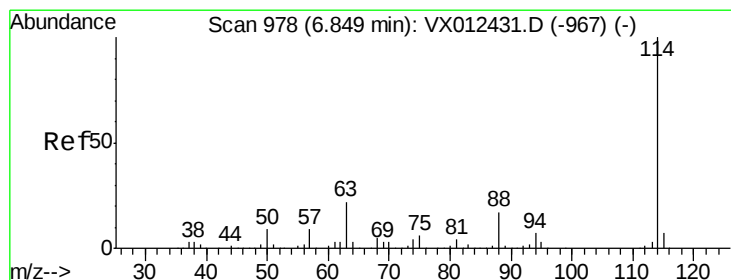
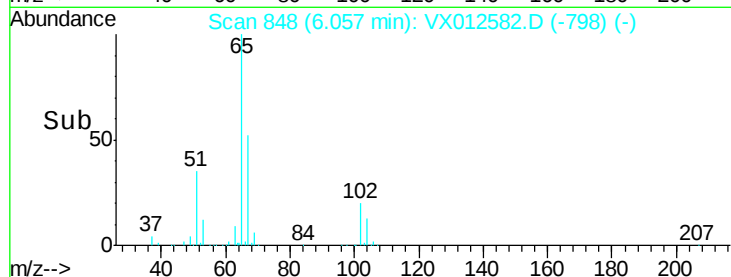
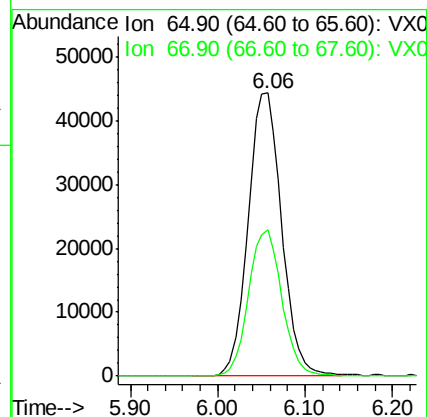
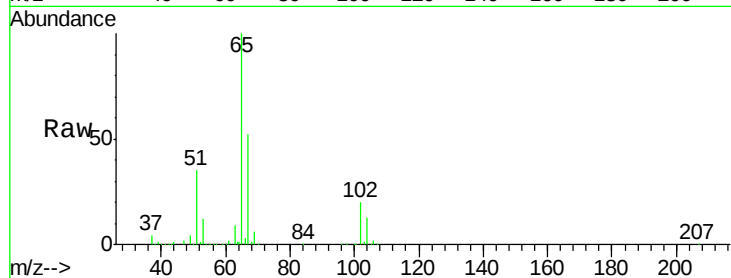
S49-ER-2019-2

Tot Ion: 65 Resp: 117996

Ion Ratio Lower Upper

65 100

67 51.5 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: VX012582.D

Acq: 21 Sep 2019 01:42

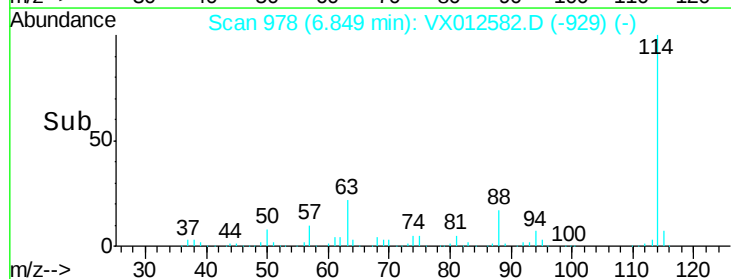
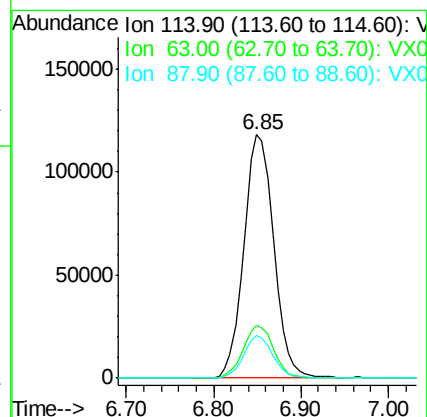
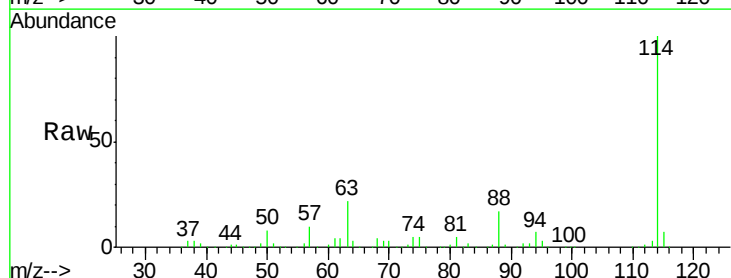
Tgt Ion: 114 Resp: 281523

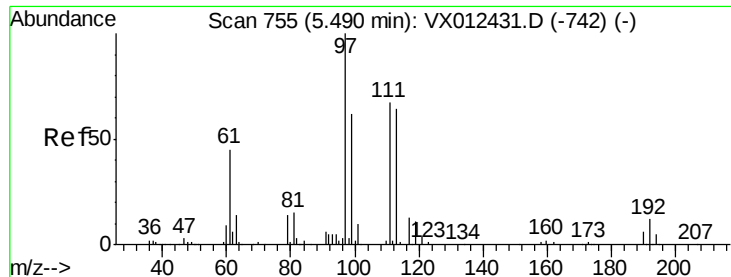
Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

88 17.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.544 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

S49-ER-2019-2

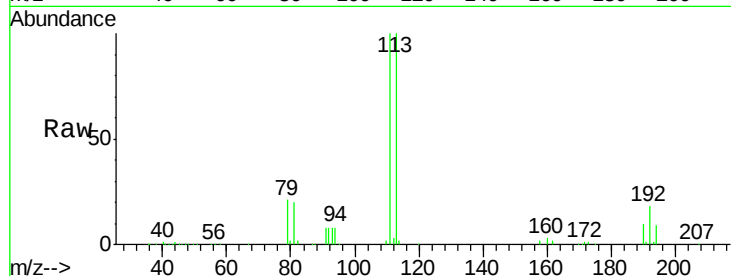
Tot Ion:113 Resp: 84420

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.2

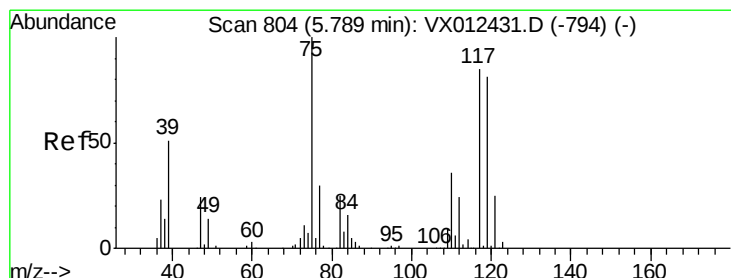
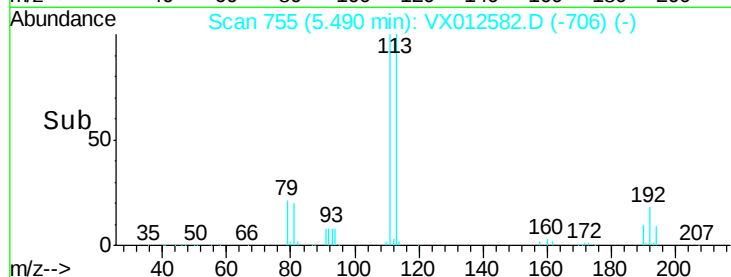
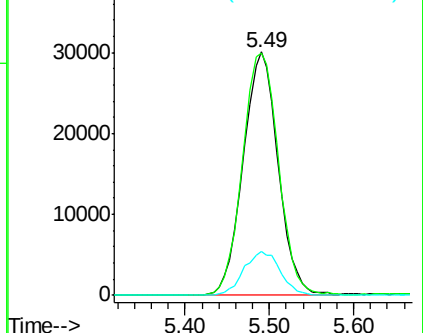
192 18.8 14.4 21.6



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: 8.924 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

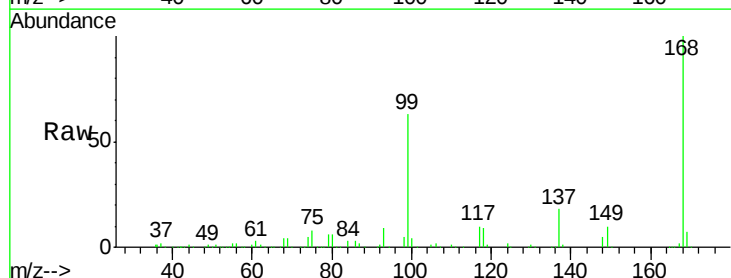
Tgt Ion: 75 Resp: 15269

Ion Ratio Lower Upper

75 100

110 10.4 16.7 50.0#

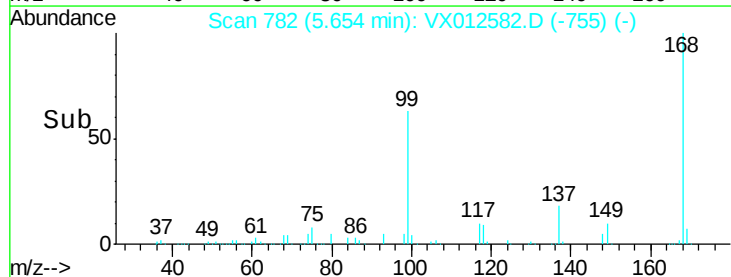
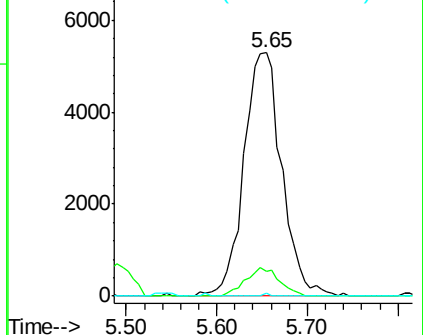
77 0.2 24.2 36.2#

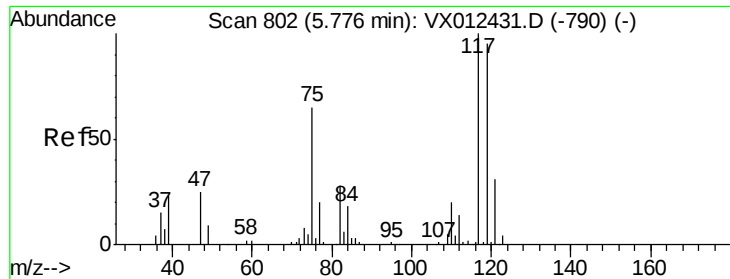


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 9.141 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampled :

S49-ER-2019-2

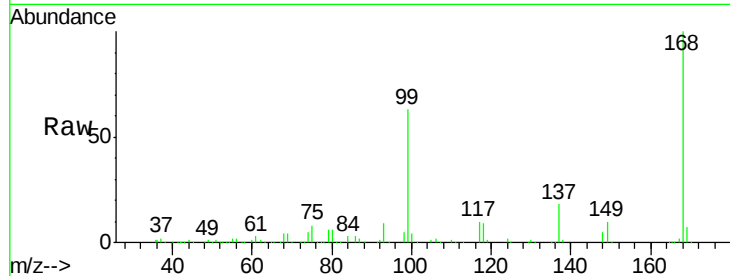
Tot Ion:117 Resp: 19451

Ion Ratio Lower Upper

117 100

119 6.5 75.7 113.5#

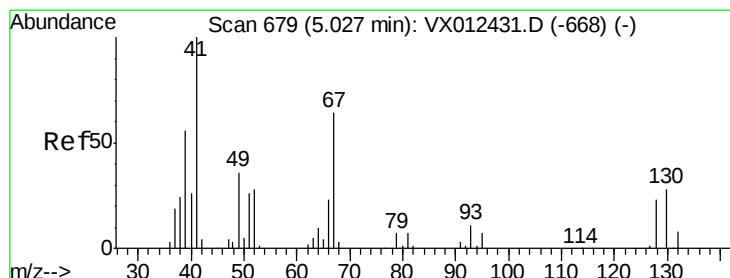
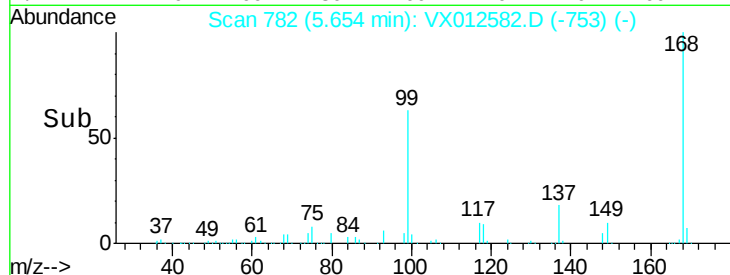
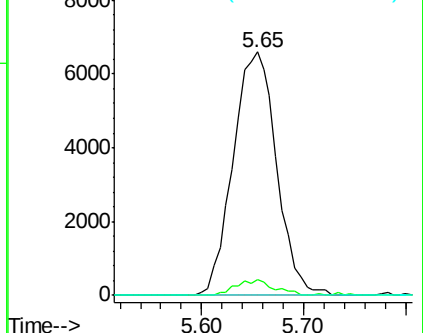
121 0.0 24.2 36.4#



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



#41

Methacrylonitrile

Concen: 11.815 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.09 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Tgt Ion: 41 Resp: 19980

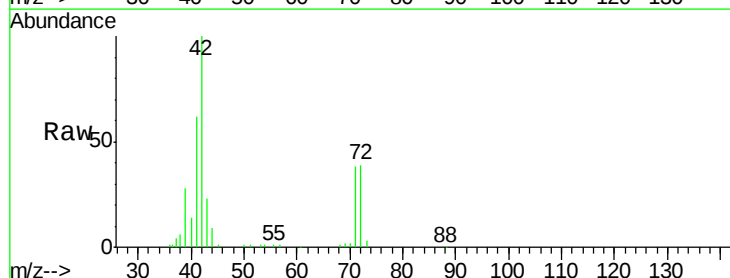
Ion Ratio Lower Upper

41 100

39 48.1 46.0 69.0

67 0.1 52.2 78.2#

52 0.6 22.7 34.1#

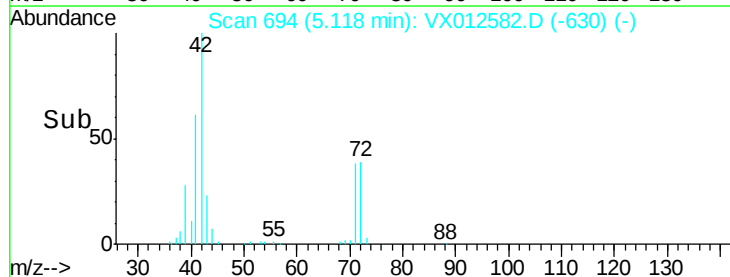
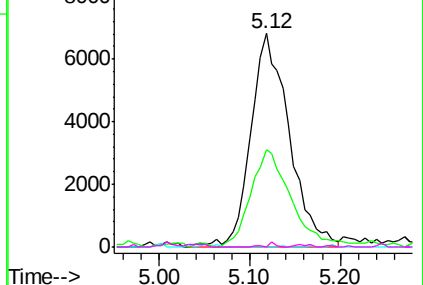


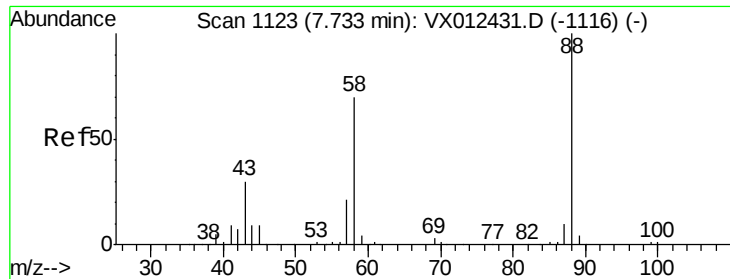
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#49

1,4-Dioxane

Concen: 0.444 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

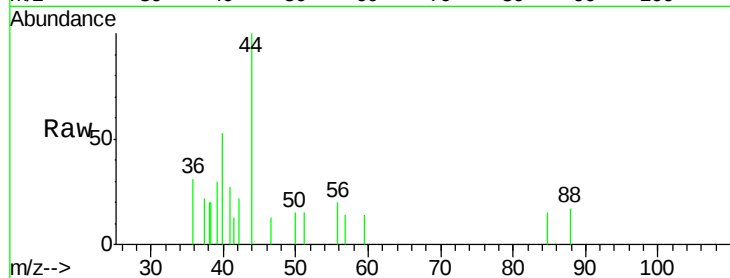
MSVOA_X

ClientSampleId :

S49-ER-2019-2

Tot Ion: 88 Resp: 24

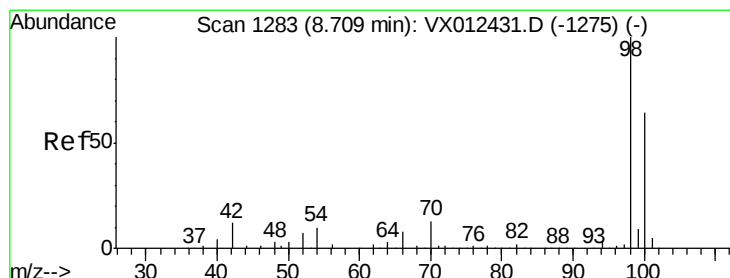
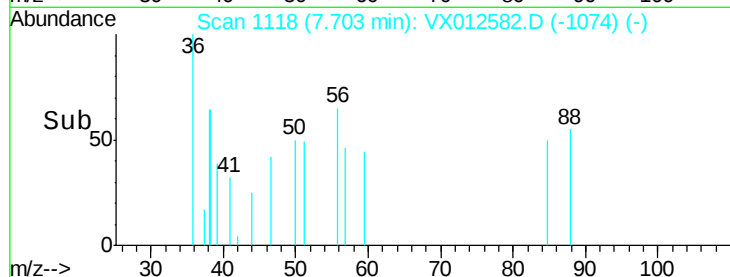
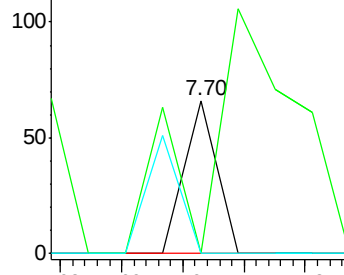
Ion	Ratio	Lower	Upper
88	100		
43	458.3	29.4	44.0#
58	79.2	57.5	86.3



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: 51.072 ug/l

RT: 8.71 min Scan# 1283

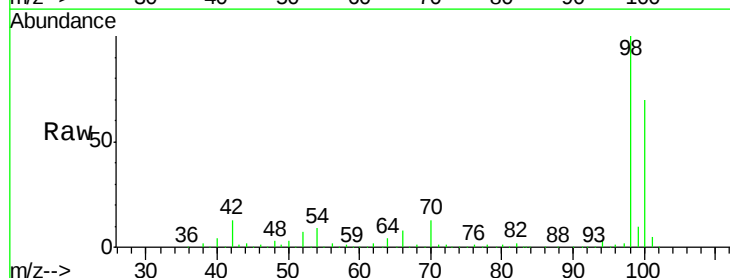
Delta R.T. -0.00 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

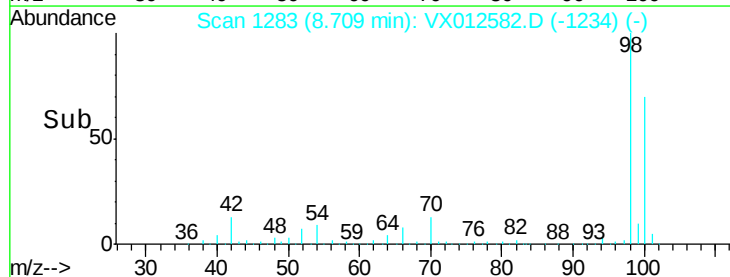
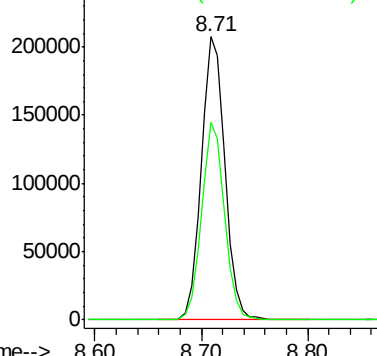
Tgt Ion: 98 Resp: 322111

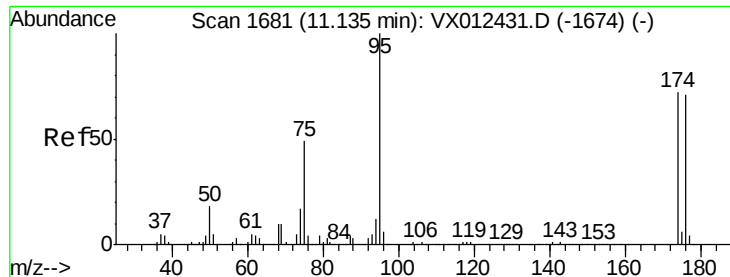
Ion	Ratio	Lower	Upper
98	100		
100	68.0	53.4	80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.911 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

S49-ER-2019-2

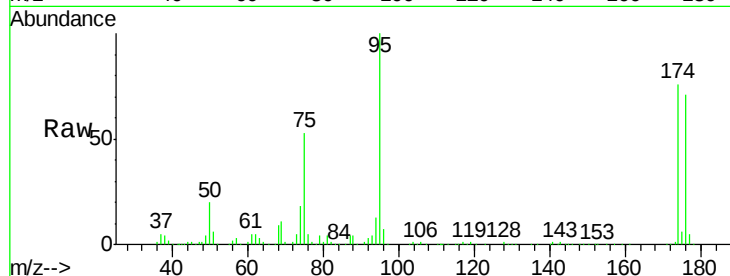
Tot Ion: 95 Resp: 114991

Ion Ratio Lower Upper

95 100

174 72.1 0.0 140.0

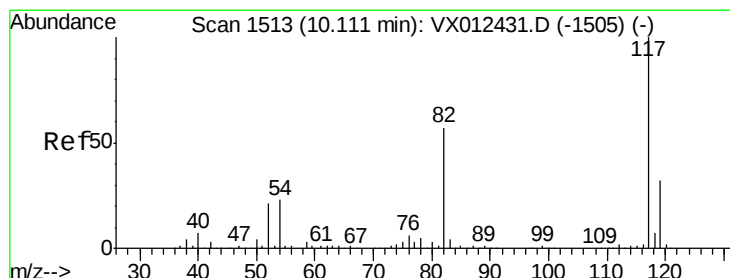
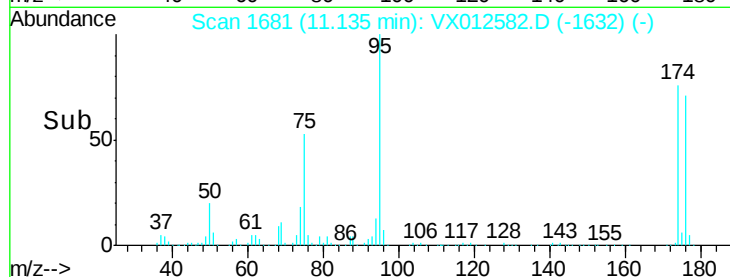
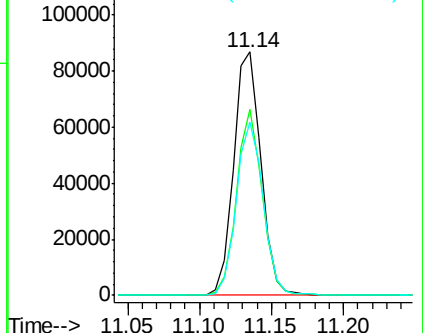
176 70.2 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012582.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012582.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012582.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

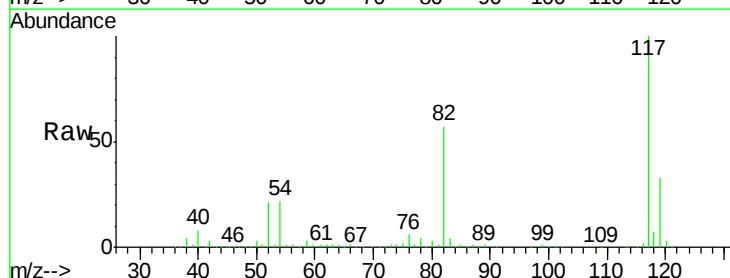
Tgt Ion: 117 Resp: 238090

Ion Ratio Lower Upper

117 100

82 56.8 45.9 68.9

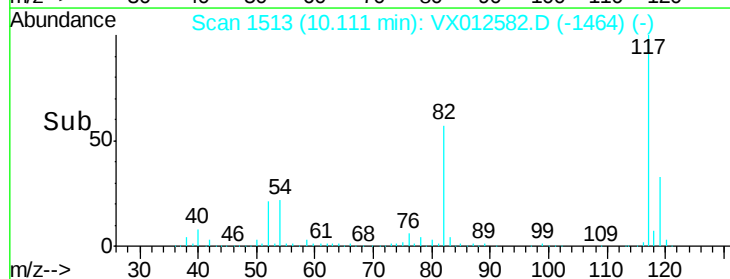
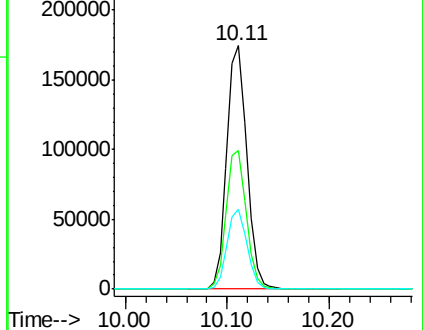
119 32.8 25.3 37.9

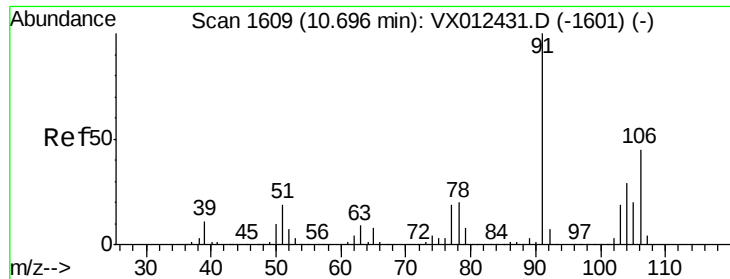


Abundance Ion 116.90 (116.60 to 117.60): VX012582.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012582.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012582.D (-1464) (-)

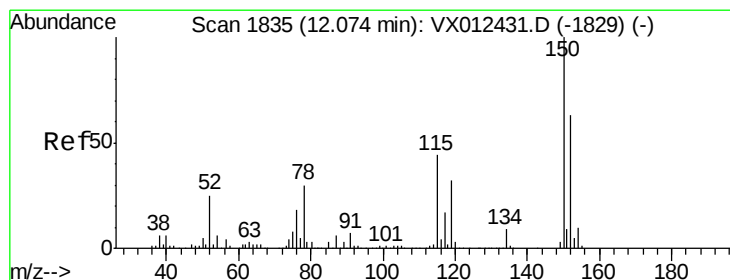
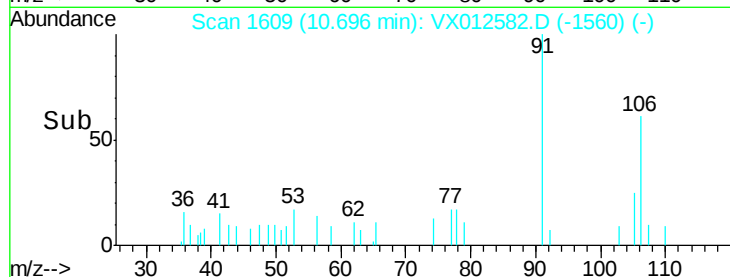
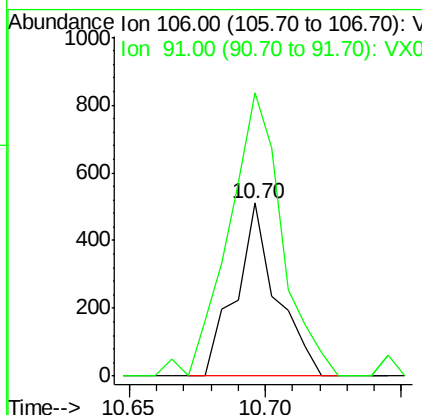
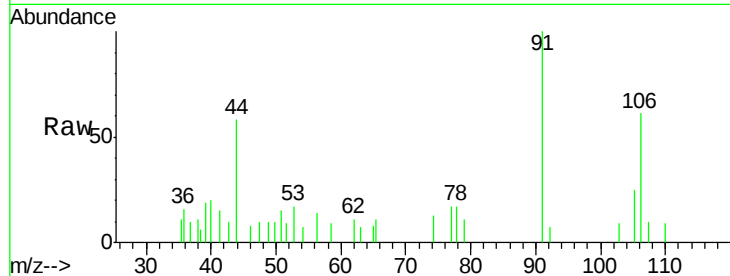




#69
o-Xylene
Concen: 0.210 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX012582.D
Acq: 21 Sep 2019 01:42

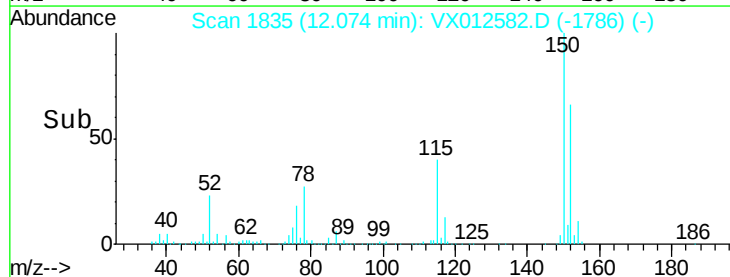
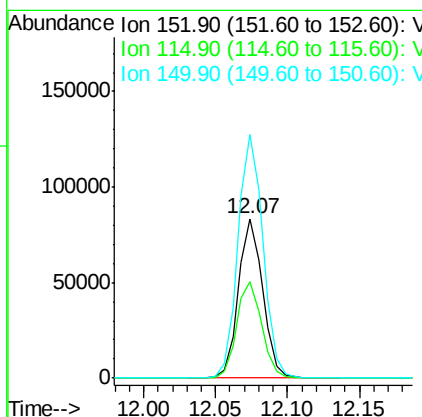
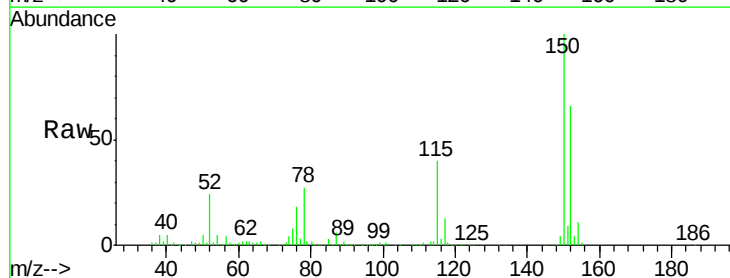
Instrument :
MSVOA_X
ClientSampled :
S49-ER-2019-2

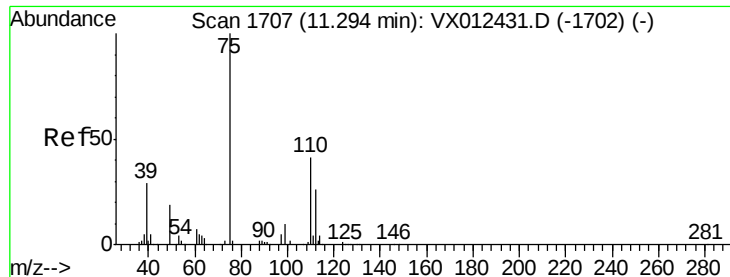
Tot Ion:106 Resp: 531
Ion Ratio Lower Upper
106 100
91 214.3 109.4 328.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012582.D
Acq: 21 Sep 2019 01:42

Tgt Ion:152 Resp: 98010
Ion Ratio Lower Upper
152 100
115 62.8 44.1 132.3
150 157.5 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 26.773 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

Instrument :

MSVOA_X

ClientSampleId :

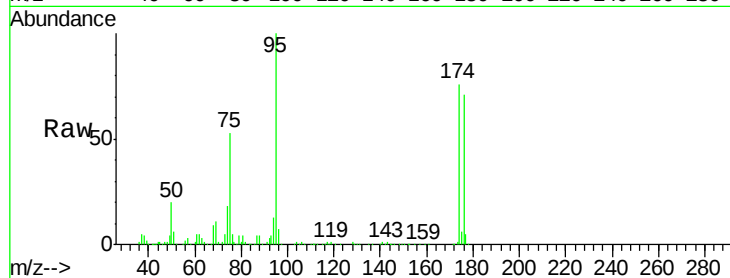
S49-ER-2019-2

Tot Ion: 75 Resp: 60276

Ion Ratio Lower Upper

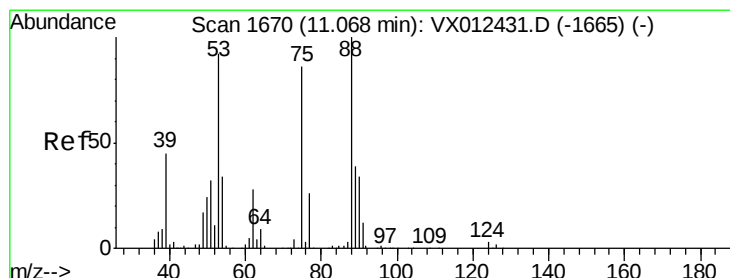
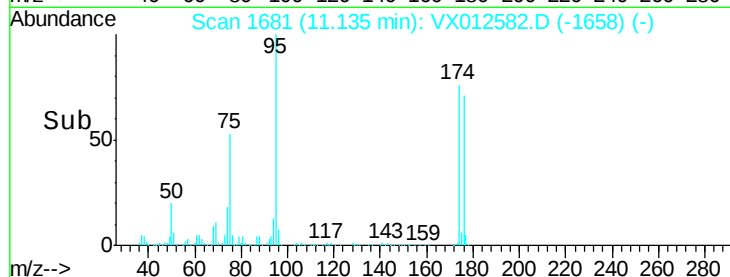
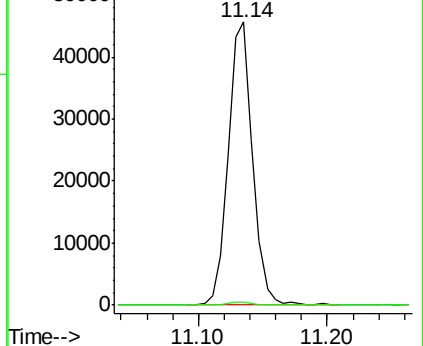
75 100

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: 72.047 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012582.D

Acq: 21 Sep 2019 01:42

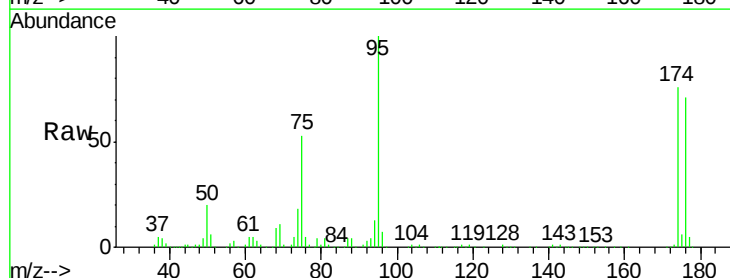
Tgt Ion: 75 Resp: 60276

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.1 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

