

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO051520\
 Data File : VX016279.D
 Acq On : 15 May 2020 14:40
 Operator : JC/SP
 Sample : L2642-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 400513791-VOA

Quant Time: May 16 07:48:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	243156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	407502	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	406993	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206966	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	149526	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	
35) Dibromofluoromethane	5.46	113	123745	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
50) Toluene-d8	8.70	98	509583	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	11.12	95	206309	54.53	ug/l	0.00
Spiked Amount			Recovery	=	109.06%	

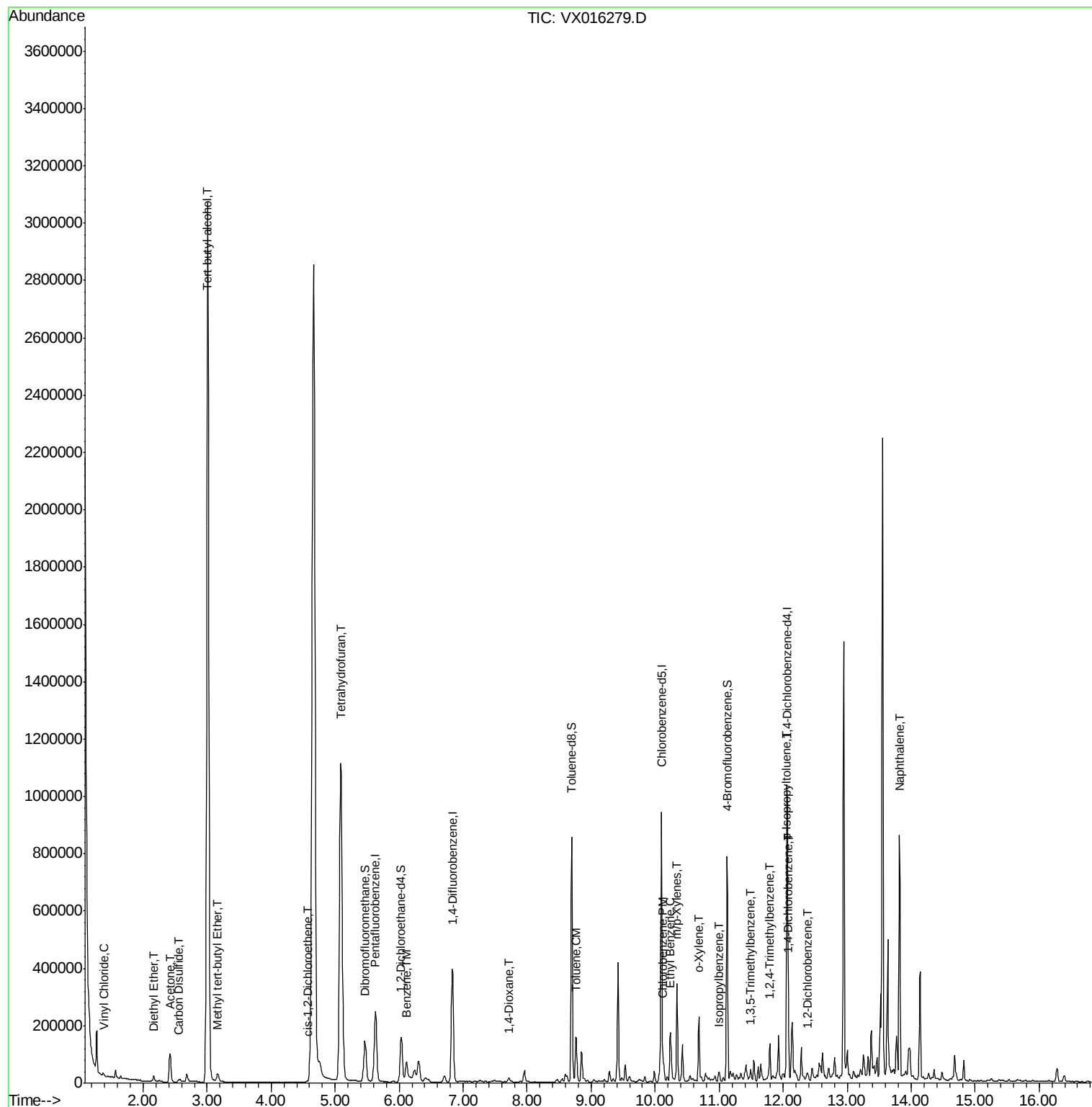
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	1680	0.527	ug/l	96
8) Diethyl Ether	2.17	74	6881	3.901	ug/l	99
11) Tert butyl alcohol	3.01	59	4052141	5008.096	ug/l	99
16) Acetone	2.42	43	76341	53.472	ug/l	94
17) Carbon Disulfide	2.55	76	5555	0.527	ug/l #	95
19) Methyl tert-butyl Ether	3.16	73	31156	3.576	ug/l	98
27) cis-1,2-Dichloroethene	4.57	96	3934	1.278	ug/l #	15
29) Tetrahydrofuran	5.09	42	1022684	670.898	ug/l	98
40) Benzene	6.12	78	83250	7.093	ug/l	100
49) 1,4-Dioxane	7.72	88	10496	124.506	ug/l	97
52) Toluene	8.77	92	53007	7.246	ug/l	100
65) Chlorobenzene	10.12	112	14041	1.648	ug/l	97
67) Ethyl Benzene	10.24	91	95379	6.273	ug/l	99
68) m/p-Xylenes	10.34	106	74609	13.096	ug/l	98
69) o-Xylene	10.68	106	47179	8.616	ug/l	100
73) Isopropylbenzene	11.01	105	11713	0.778	ug/l	100
80) 1,3,5-Trimethylbenzene	11.49	105	13456	1.059	ug/l	100
84) 1,2,4-Trimethylbenzene	11.79	105	53011	4.125	ug/l	99
86) p-Isopropyltoluene	12.05	119	41539	3.025	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	42256	5.967	ug/l	93
91) 1,2-Dichlorobenzene	12.38	146	5151	0.767	ug/l	94
95) Naphthalene	13.82	128	484611	30.091	ug/l	100

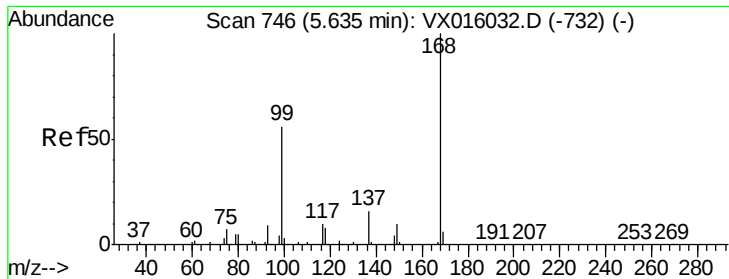
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

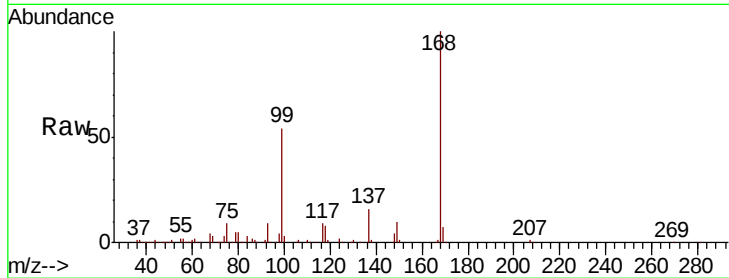
400513791-VOA

Tot Ion:168 Resp: 243156

Ion Ratio Lower Upper

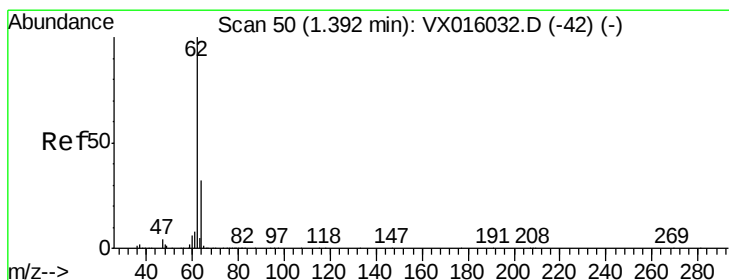
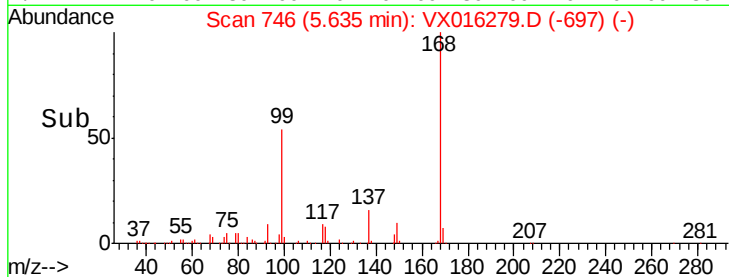
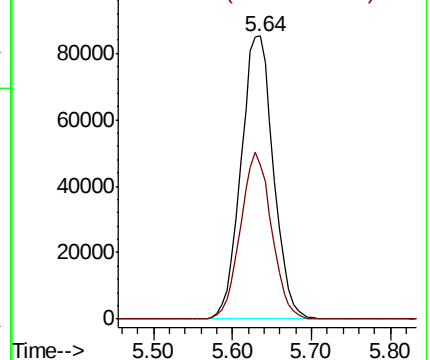
168 100

99 54.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.527 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016279.D

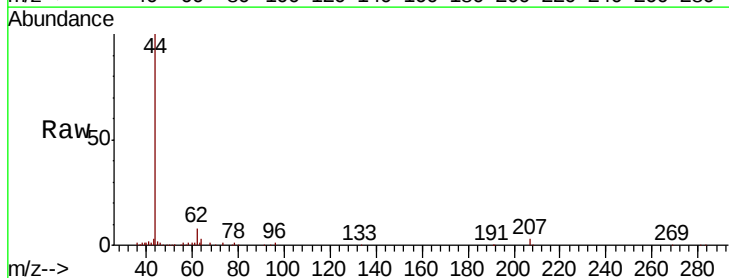
Acq: 15 May 2020 14:40

Tgt Ion: 62 Resp: 1680

Ion Ratio Lower Upper

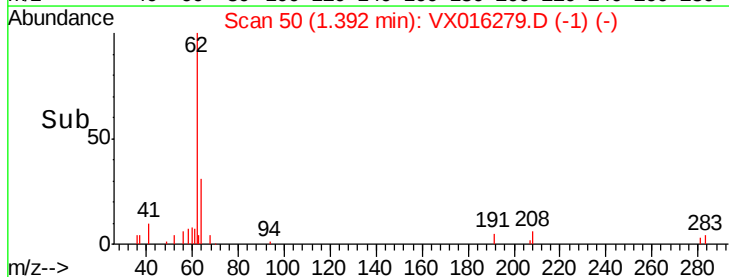
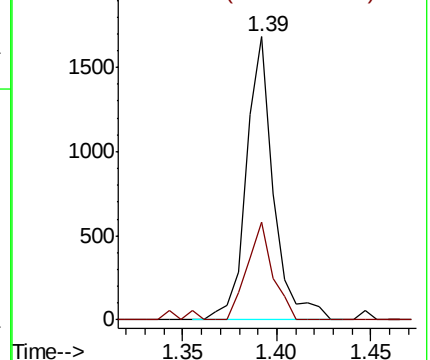
62 100

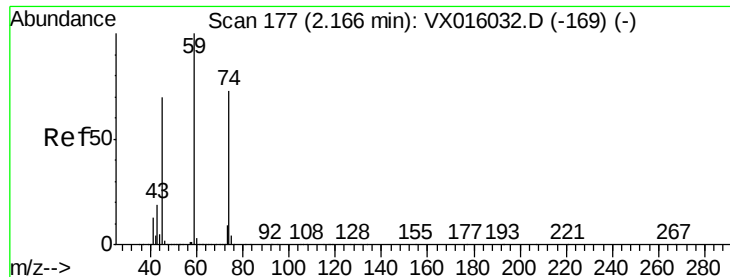
64 34.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#8

Diethyl Ether

Concen: 3.901 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

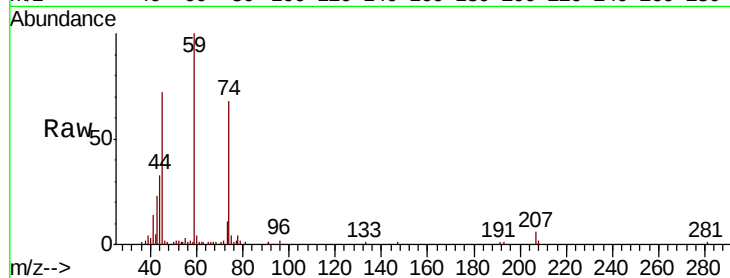
400513791-VOA

Tot Ion: 74 Resp: 6881

Ion Ratio Lower Upper

74 100

45 95.9 47.3 142.0

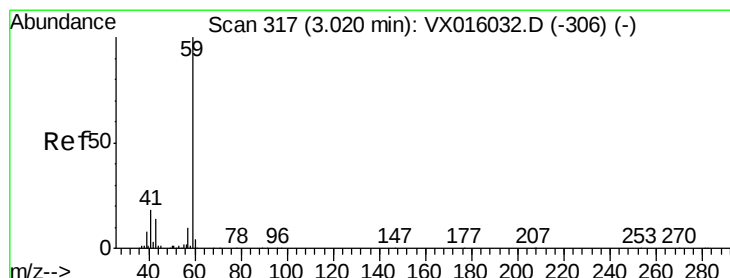
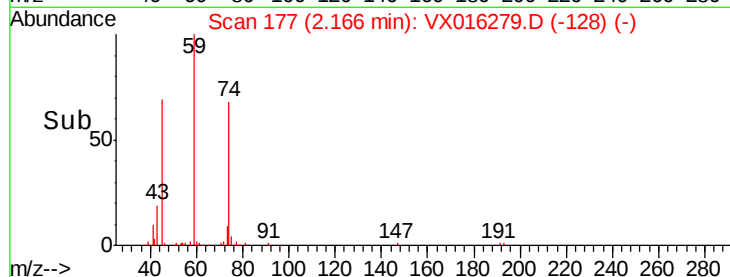


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

Time-->



#11

Tert butyl alcohol

Concen: 5008.096 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016279.D

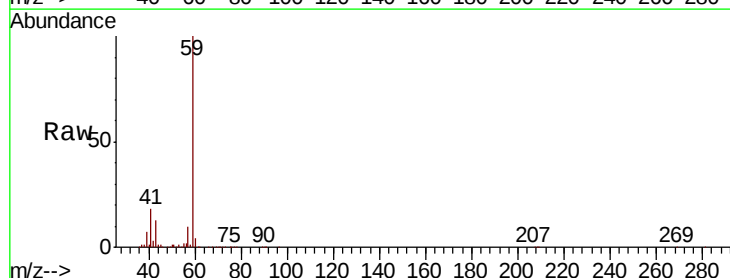
Acq: 15 May 2020 14:40

Tgt Ion: 59 Resp: 4052141

Ion Ratio Lower Upper

59 100

57 10.1 8.2 12.4

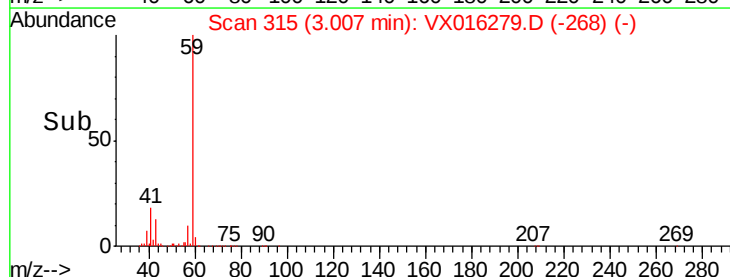


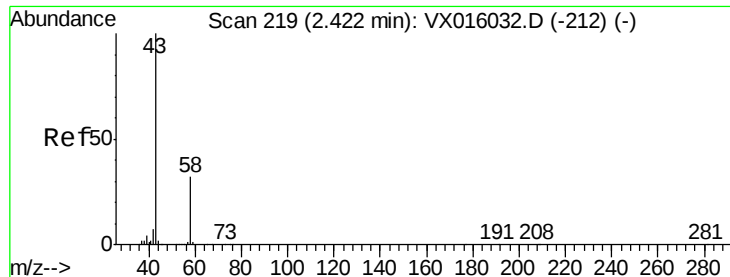
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

Time-->





#16

Acetone

Concen: 53.472 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

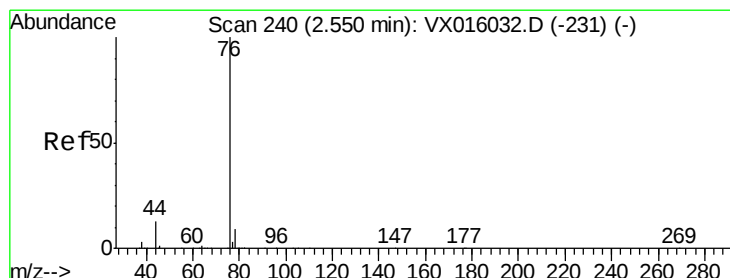
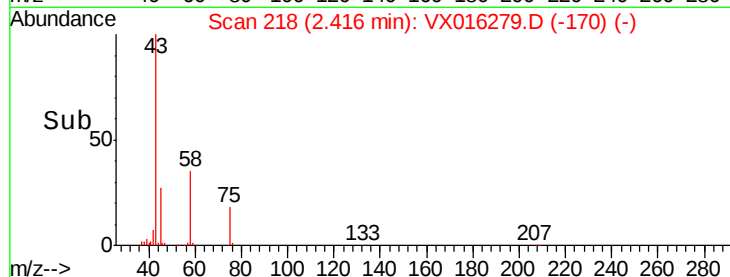
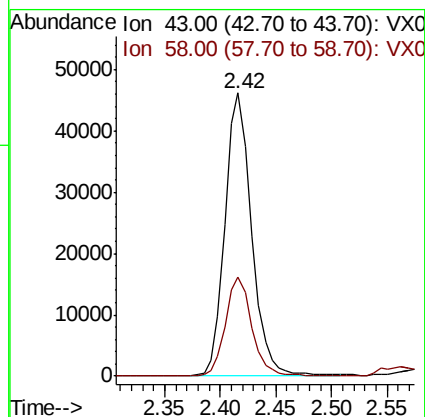
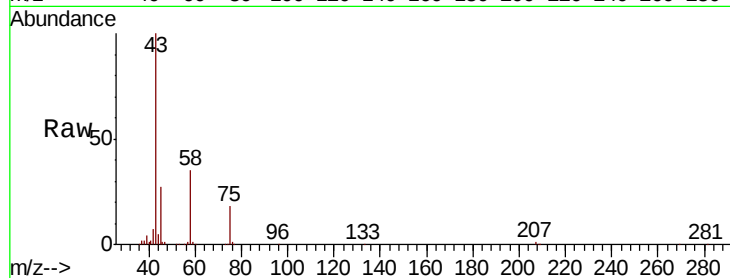
400513791-VOA

Tot Ion: 43 Resp: 76341

Ion Ratio Lower Upper

43 100

58 35.1 25.4 38.0



#17

Carbon Disulfide

Concen: 0.527 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016279.D

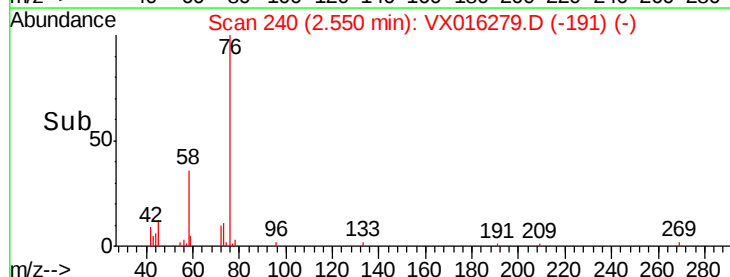
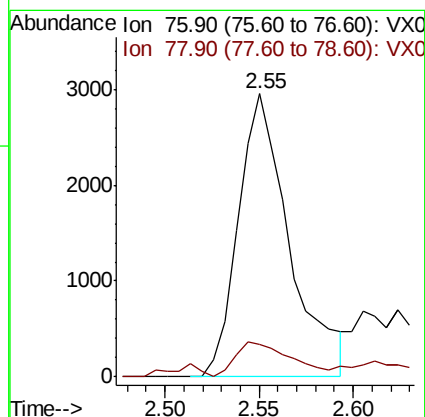
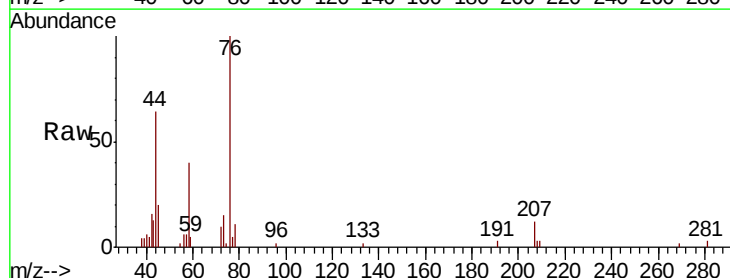
Acq: 15 May 2020 14:40

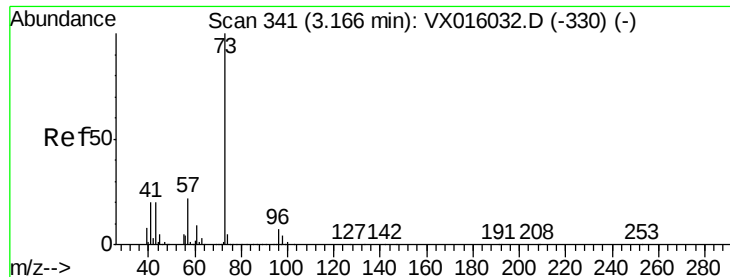
Tgt Ion: 76 Resp: 5555

Ion Ratio Lower Upper

76 100

78 7.5 7.5 11.3#



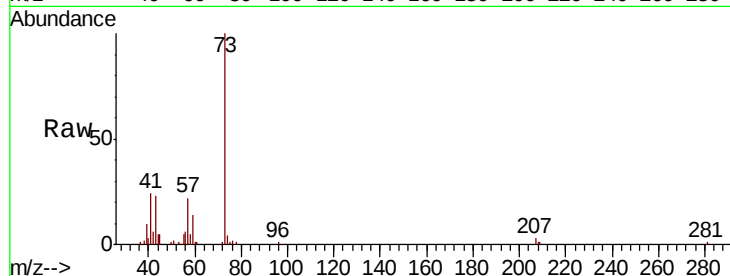


#19

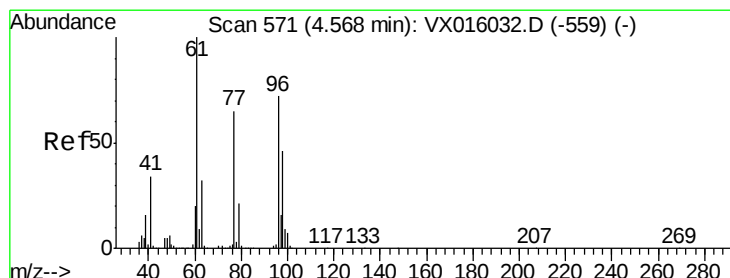
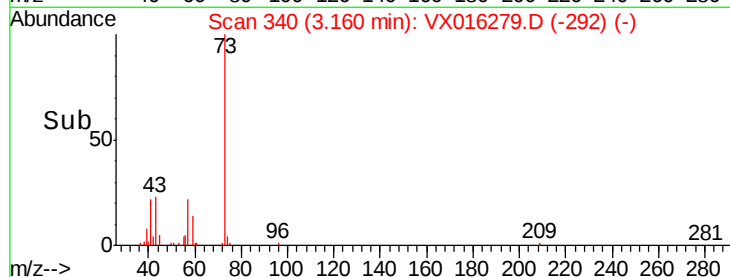
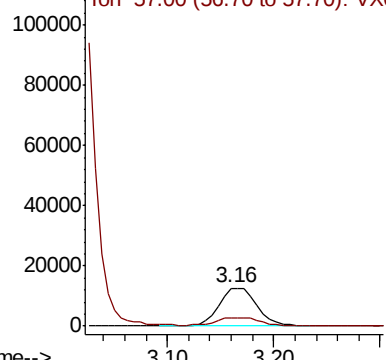
Methvl tert-butvl Ether
 Concen: 3.576 ug/l
 RT: 3.16 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VX016279.D
 Acq: 15 May 2020 14:40

Instrument :
 MSVOA_X
 ClientSampleId :
 400513791-VOA

Tot Ion: 73 Resp: 31156
 Ion Ratio Lower Upper
 73 100
 57 21.3 17.8 26.6



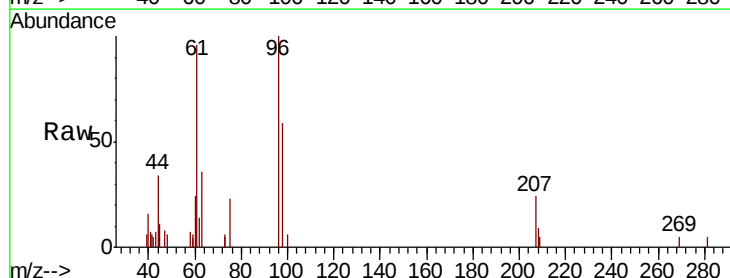
Abundance Ion 73.00 (72.70 to 73.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



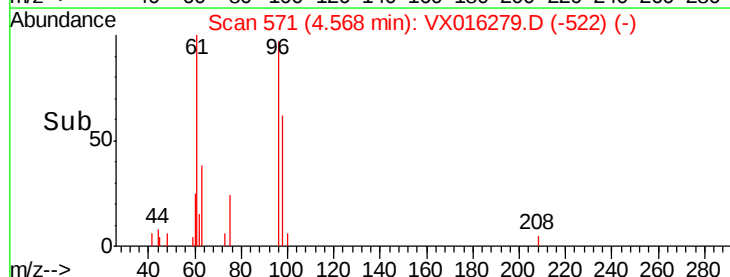
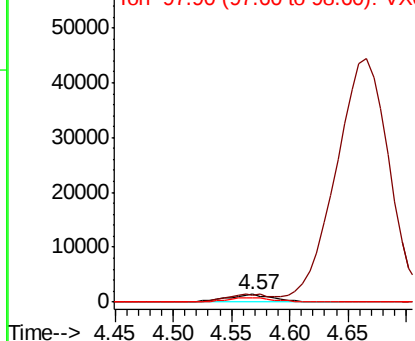
#27

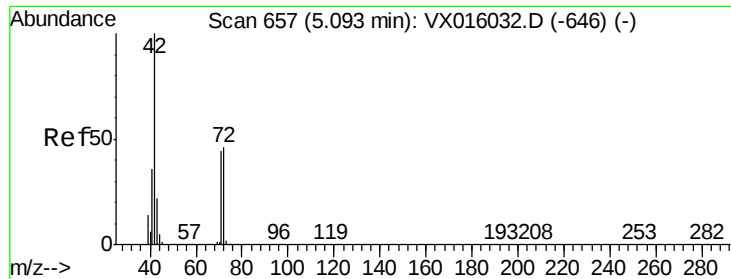
cis-1,2-Dichloroethene
 Concen: 1.278 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016279.D
 Acq: 15 May 2020 14:40

Tgt Ion: 96 Resp: 3934
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 296.2
 98 56.9 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 670.898 ug/l

RT: 5.09 min Scan# 656

Delta R.T. -0.01 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

400513791-VOA

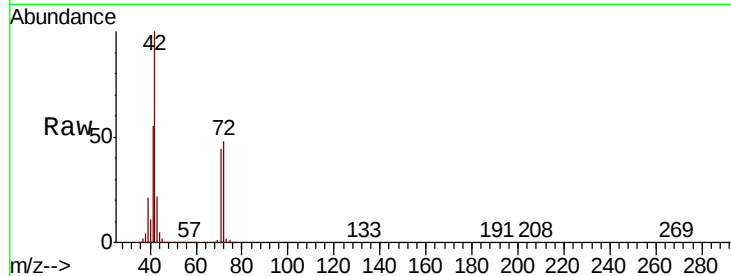
Tot Ion: 42 Resp: 1022684

Ion Ratio Lower Upper

42 100

72 47.6 37.1 55.7

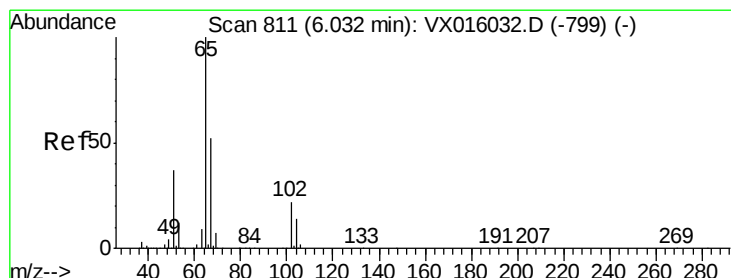
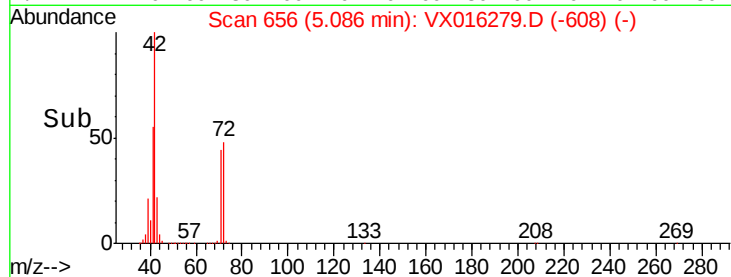
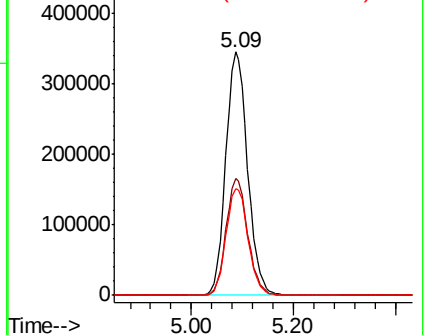
71 44.3 34.5 51.7



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



#33

1,2-Dichloroethane-d4

Concen: 46.731 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016279.D

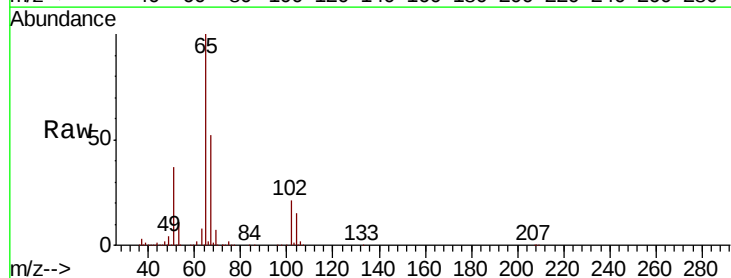
Acq: 15 May 2020 14:40

Tgt Ion: 65 Resp: 149526

Ion Ratio Lower Upper

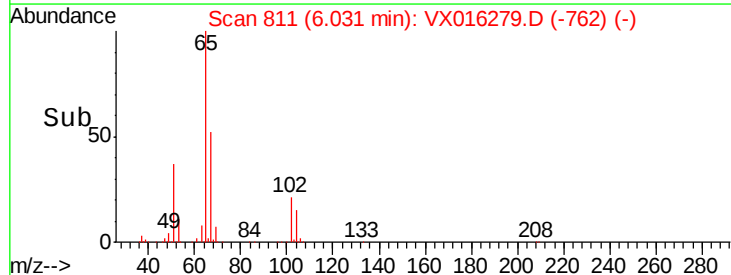
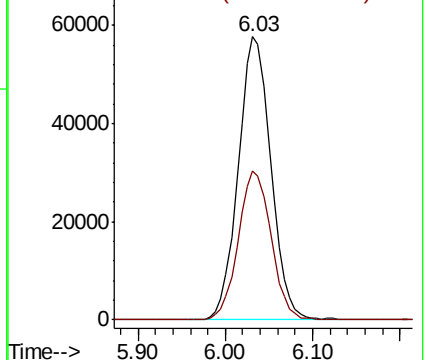
65 100

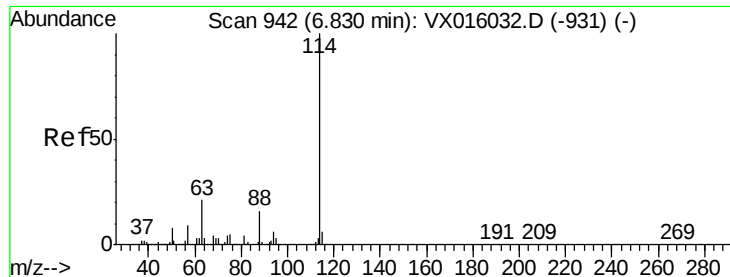
67 52.8 0.0 104.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016279.D

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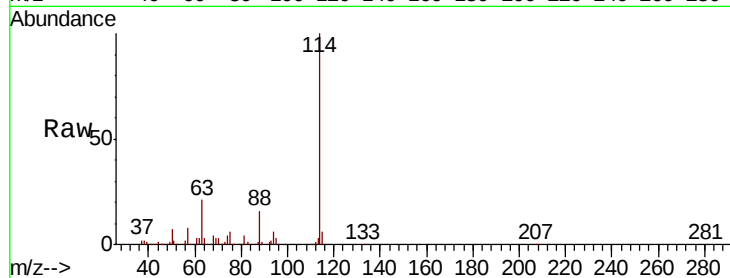
Tot Ion:114 Resp: 407502

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.8

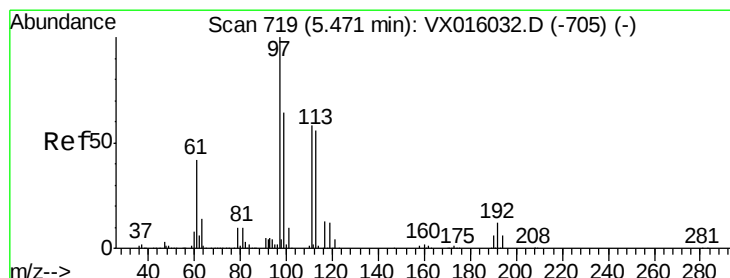
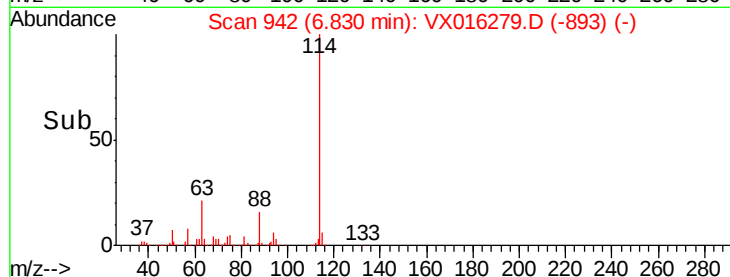
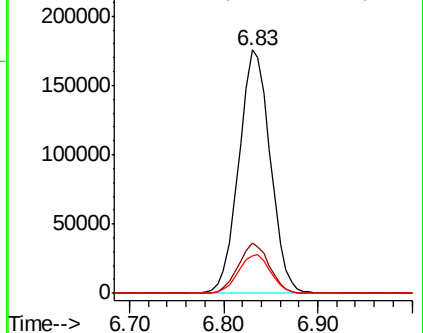
88 15.6 0.0 31.4



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: 47.932 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

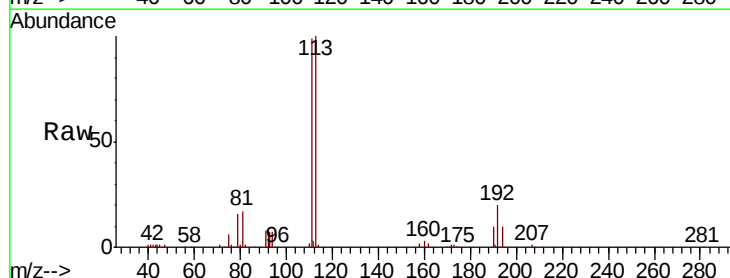
Tgt Ion:113 Resp: 123745

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

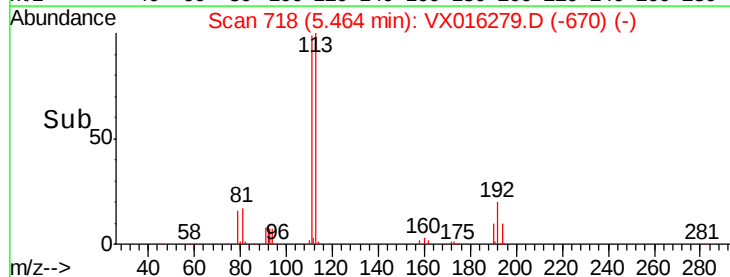
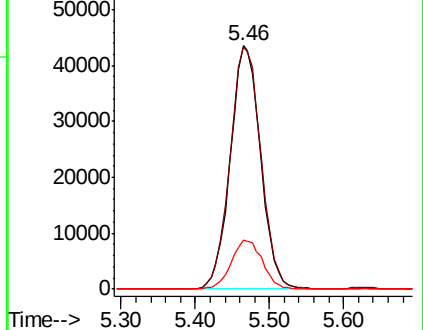
192 20.9 17.0 25.4

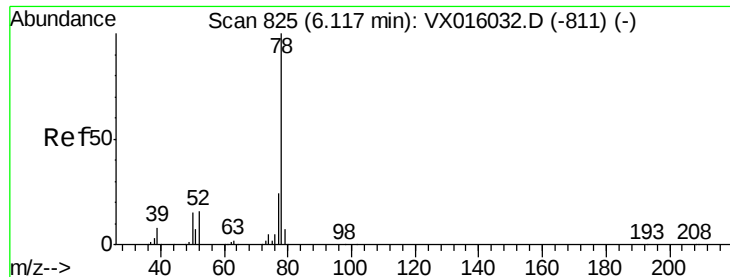


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 7.093 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

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ClientSampleId :

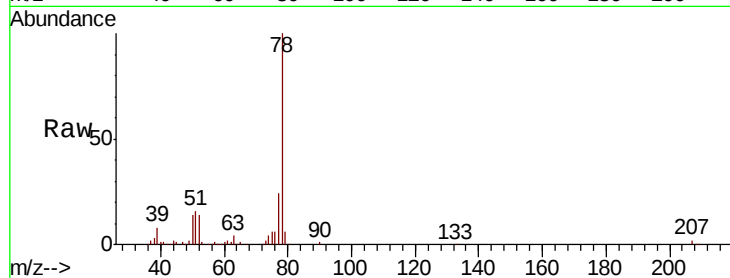
400513791-VOA

Tot Ion: 78 Resp: 83250

Ion Ratio Lower Upper

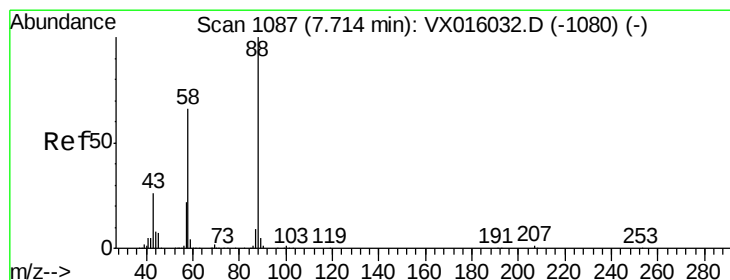
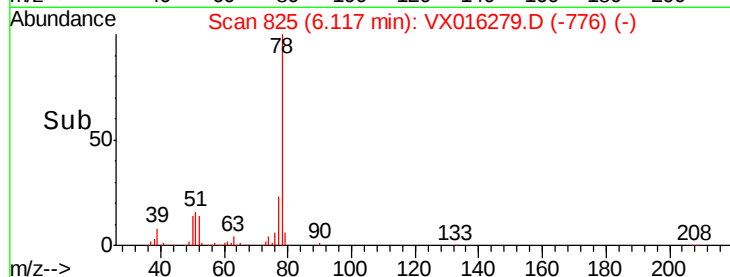
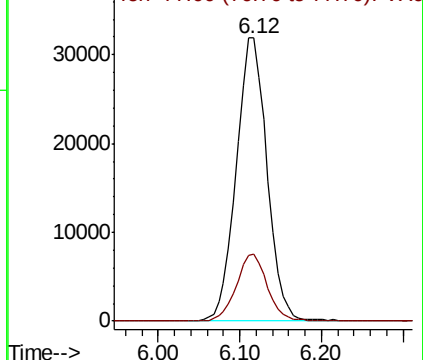
78 100

77 23.6 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#49

1,4-Dioxane

Concen: 124.506 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

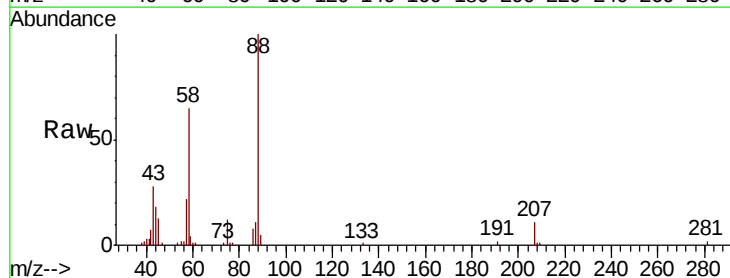
Tgt Ion: 88 Resp: 10496

Ion Ratio Lower Upper

88 100

43 28.8 25.3 37.9

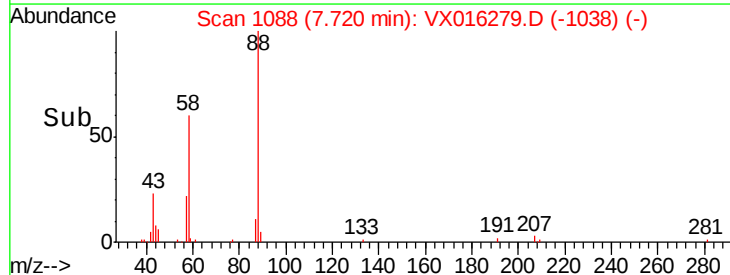
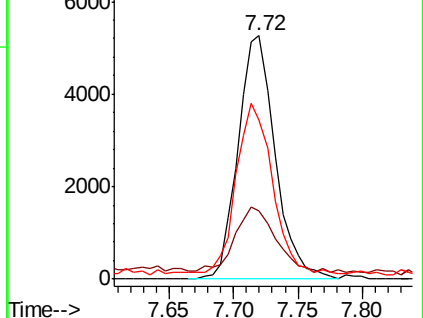
58 68.6 55.9 83.9

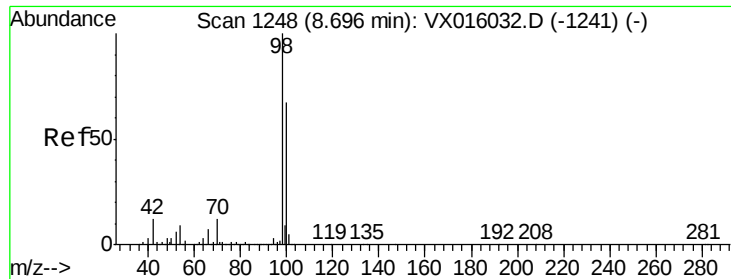


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.227 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

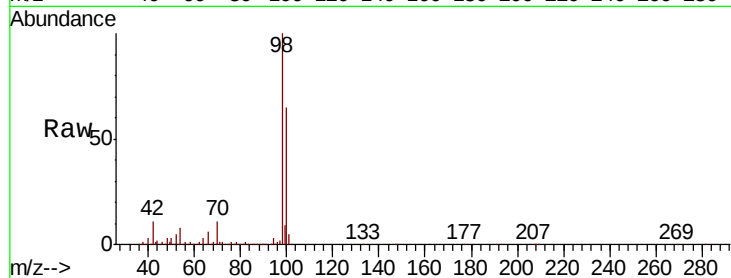
400513791-VOA

Tot Ion: 98 Resp: 509583

Ion Ratio Lower Upper

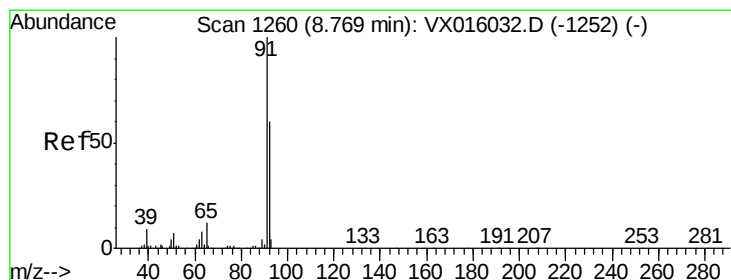
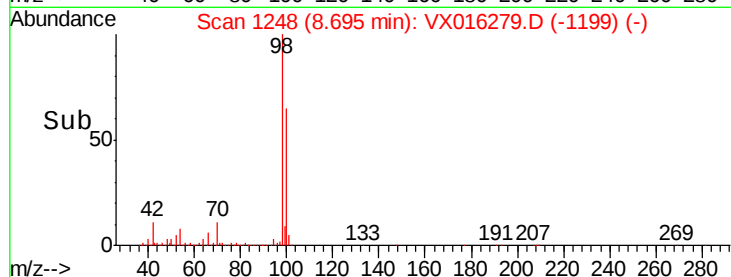
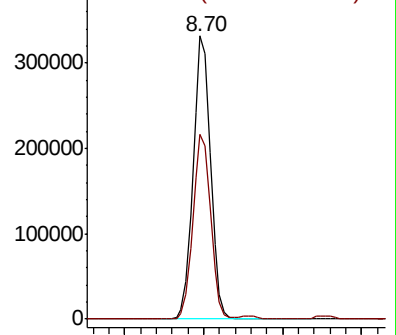
98 100

100 66.3 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 7.246 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016279.D

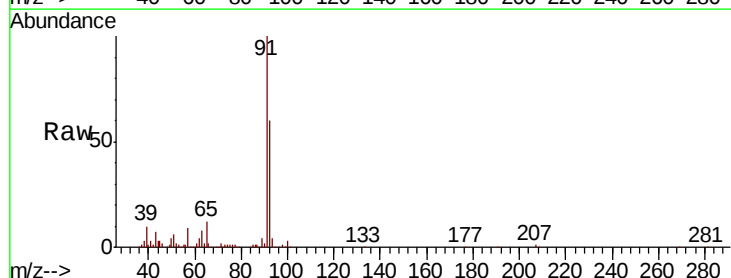
Acq: 15 May 2020 14:40

Tgt Ion: 92 Resp: 53007

Ion Ratio Lower Upper

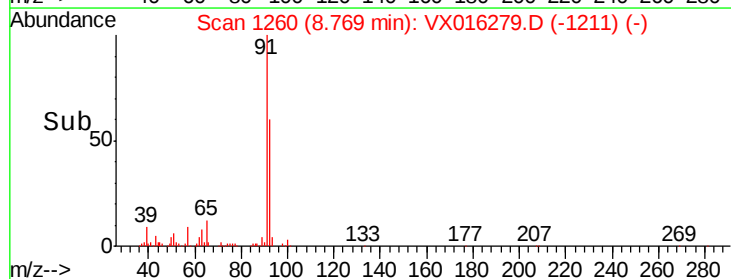
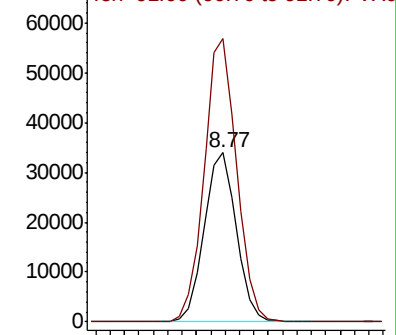
92 100

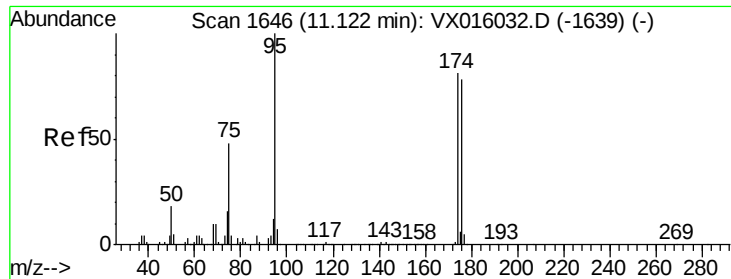
91 168.2 134.5 201.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#62

4-Bromofluorobenzene

Concen: 54.528 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

400513791-VOA

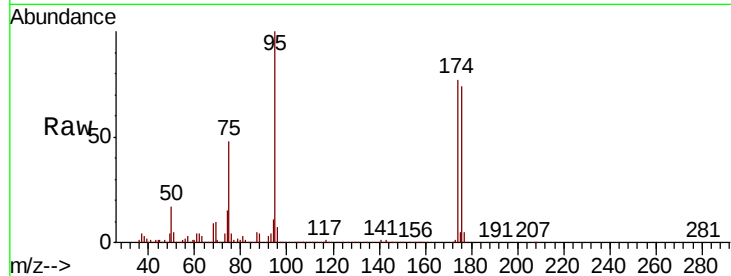
Tot Ion: 95 Resp: 206309

Ion Ratio Lower Upper

95 100

174 78.4 0.0 159.4

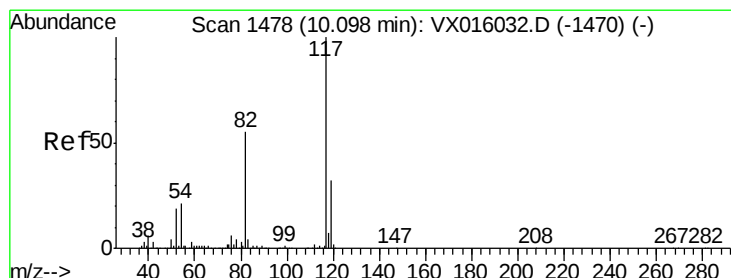
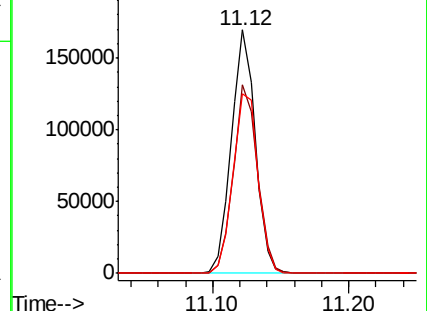
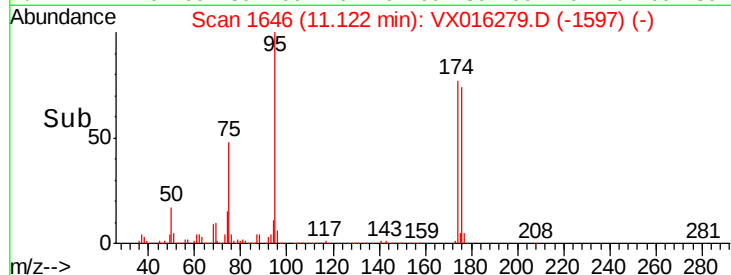
176 77.9 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016279.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016279.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016279.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

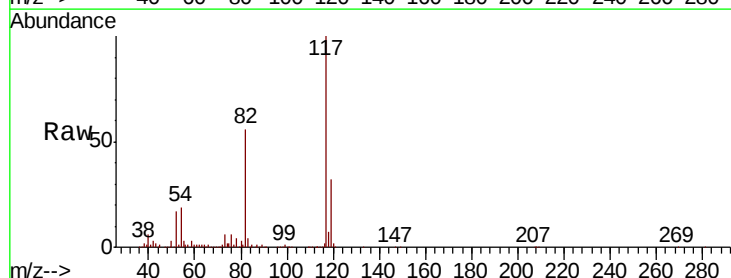
Tgt Ion: 117 Resp: 406993

Ion Ratio Lower Upper

117 100

82 55.7 44.4 66.6

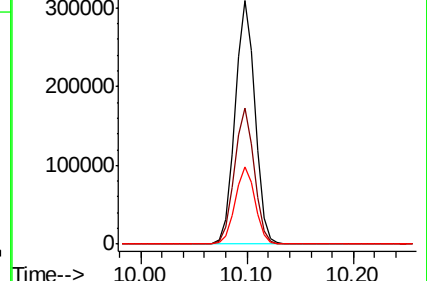
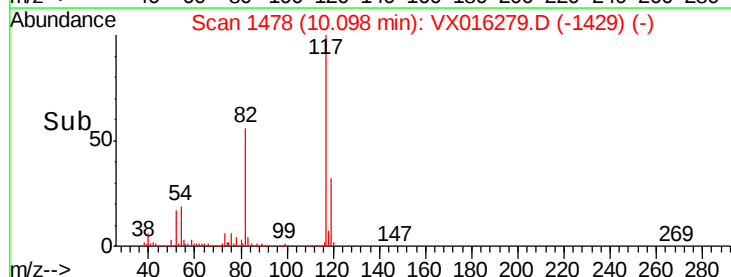
119 31.9 25.5 38.3

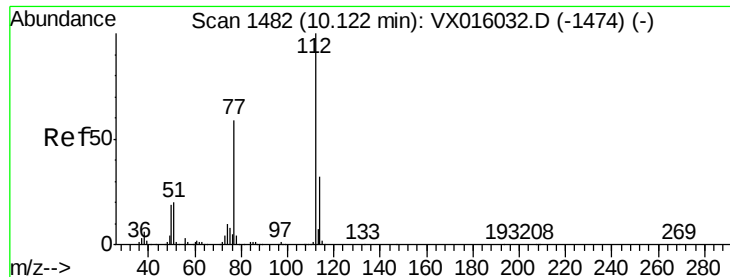


Abundance Ion 116.90 (116.60 to 117.60): VX016279.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016279.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016279.D (-1429) (-)

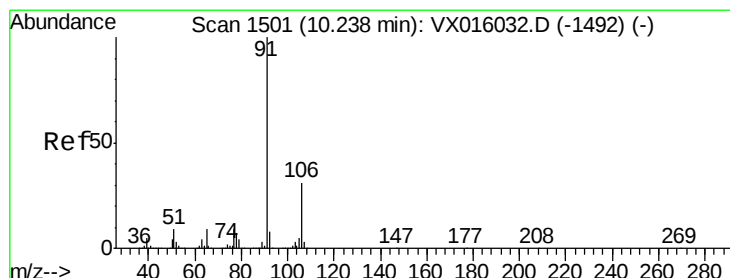
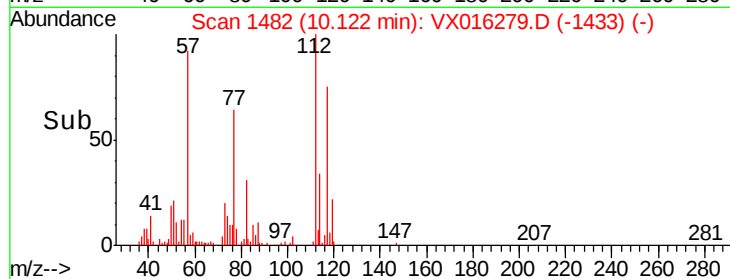
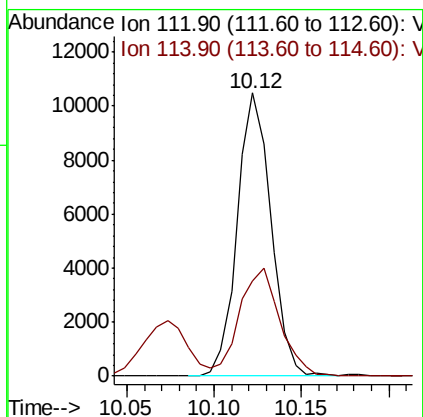
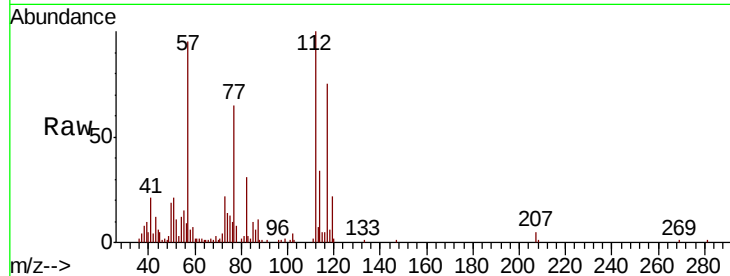




#65
Chlorobenzene
Concen: 1.648 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX016279.D
Acq: 15 May 2020 14:40

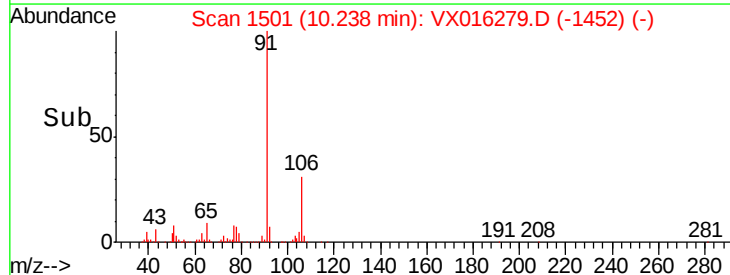
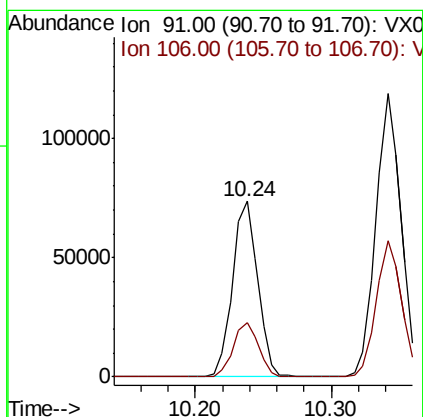
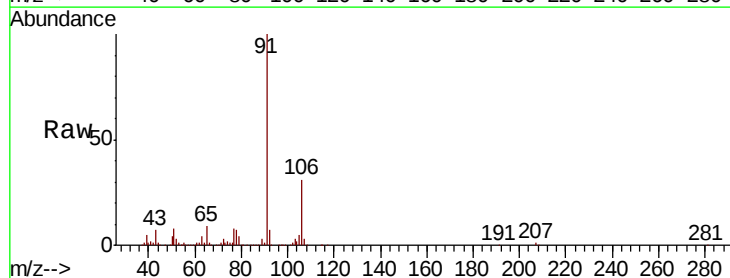
Instrument :
MSVOA_X
ClientSampleId :
400513791-VOA

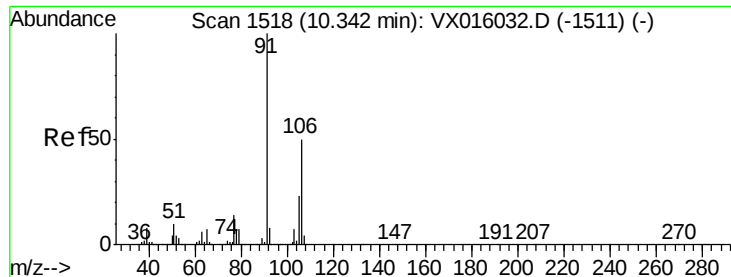
Tot Ion:112 Resp: 14041
Ion Ratio Lower Upper
112 100
114 33.8 25.7 38.5



#67
Ethyl Benzene
Concen: 6.273 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. -0.00 min
Lab File: VX016279.D
Acq: 15 May 2020 14:40

Tgt Ion: 91 Resp: 95379
Ion Ratio Lower Upper
91 100
106 30.7 25.1 37.7





#68

m/p-Xylenes

Concen: 13.096 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

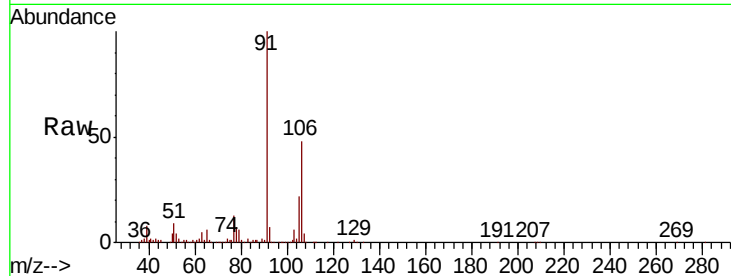
400513791-VOA

Tot Ion:106 Resp: 74609

Ion Ratio Lower Upper

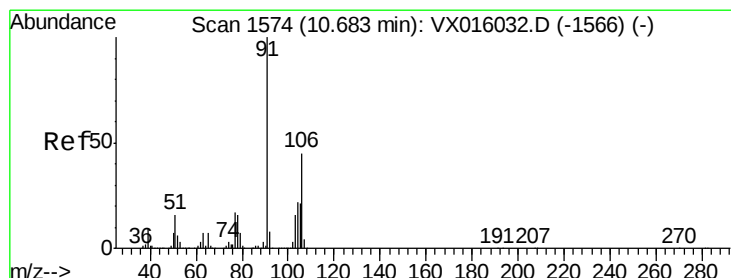
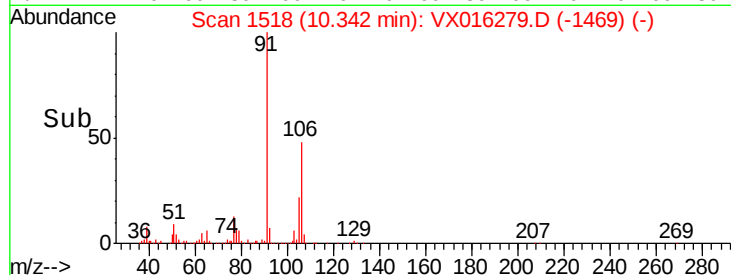
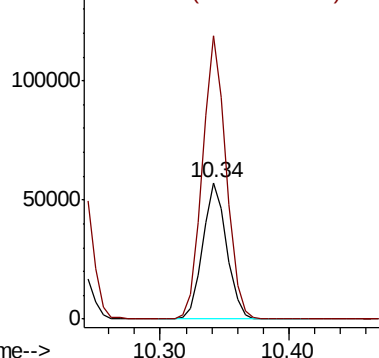
106 100

91 204.5 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 8.616 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX016279.D

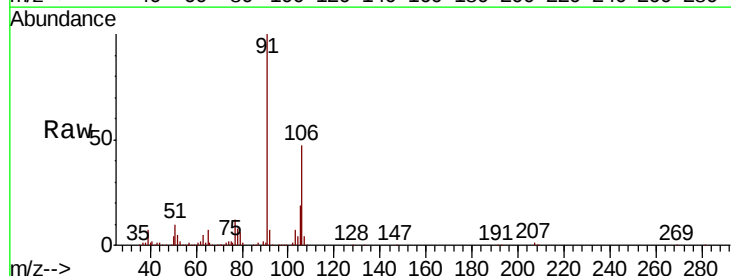
Acq: 15 May 2020 14:40

Tgt Ion:106 Resp: 47179

Ion Ratio Lower Upper

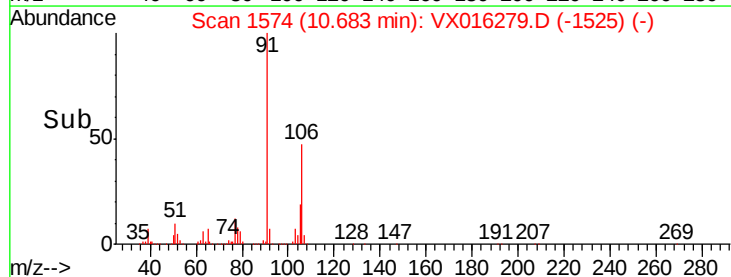
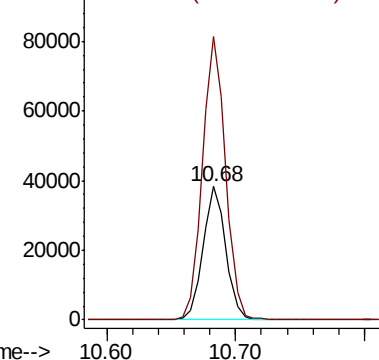
106 100

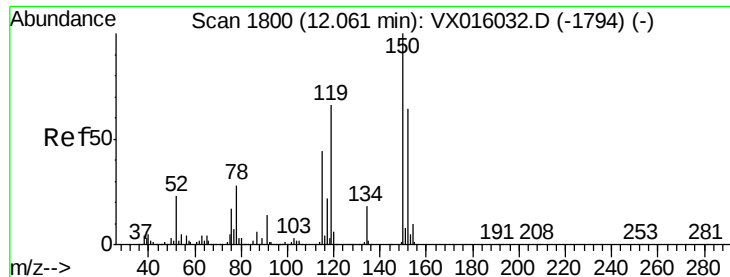
91 215.4 107.5 322.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

400513791-VOA

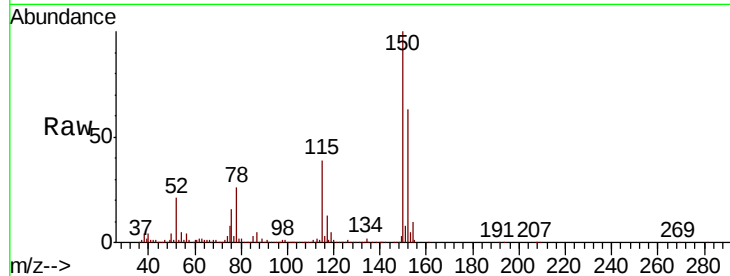
Tot Ion:152 Resp: 206966

Ion Ratio Lower Upper

152 100

115 61.2 41.3 124.1

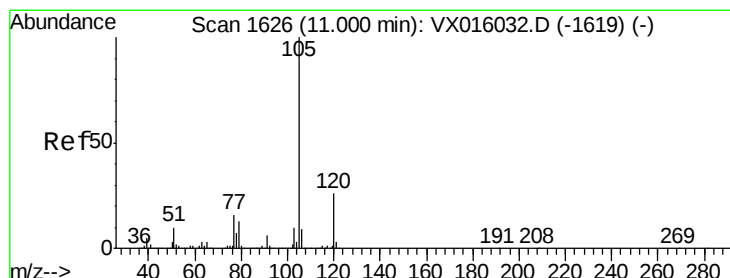
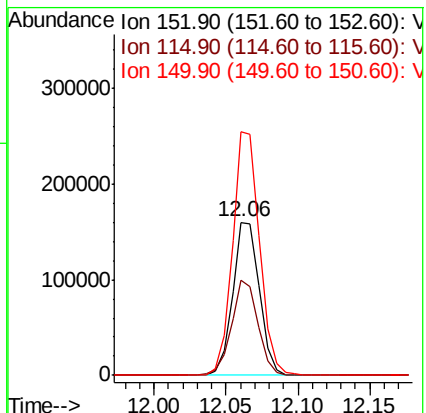
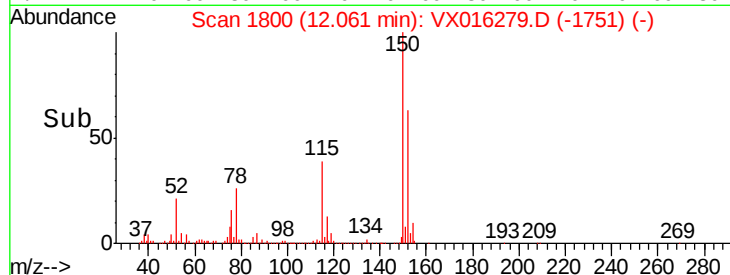
150 160.9 0.0 352.2



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



#73

Isopropylbenzene

Concen: 0.778 ug/l

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX016279.D

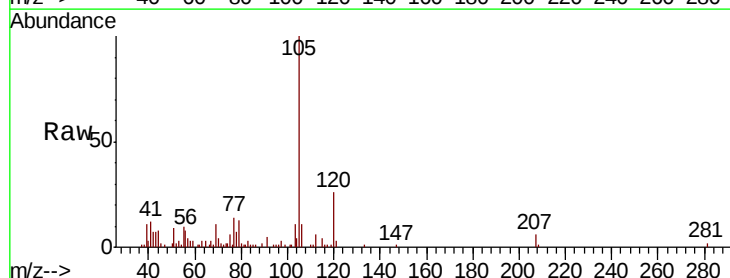
Acq: 15 May 2020 14:40

Tgt Ion:105 Resp: 11713

Ion Ratio Lower Upper

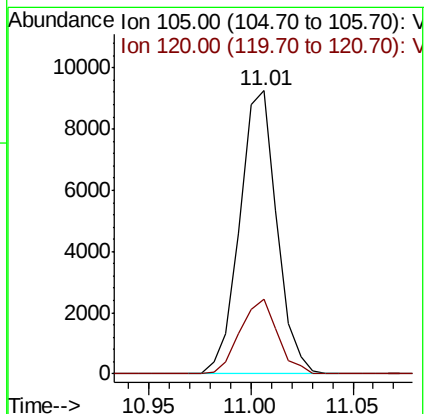
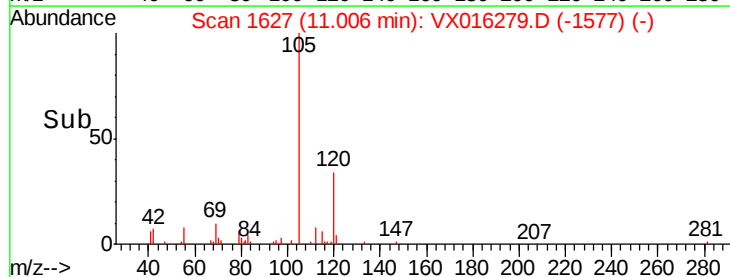
105 100

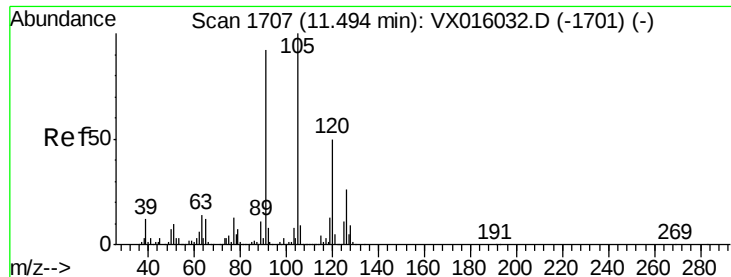
120 26.6 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 1.059 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

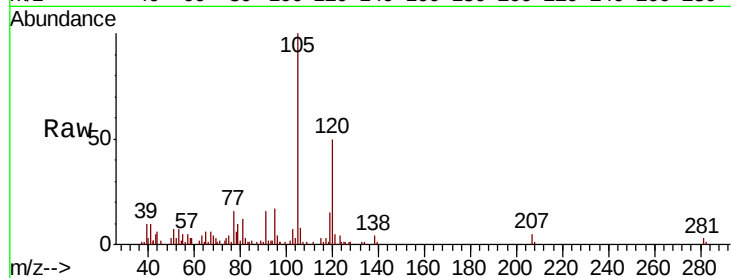
400513791-VOA

Tot Ion:105 Resp: 13456

Ion Ratio Lower Upper

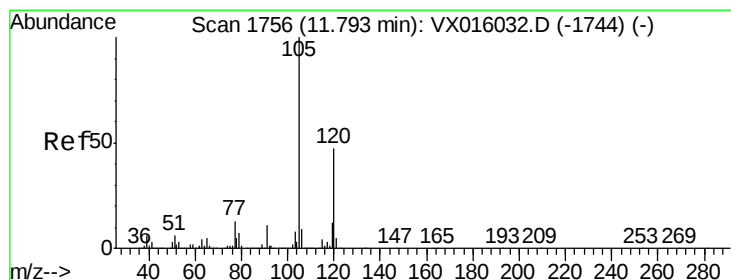
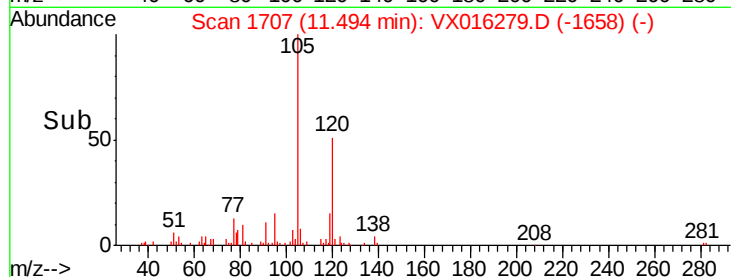
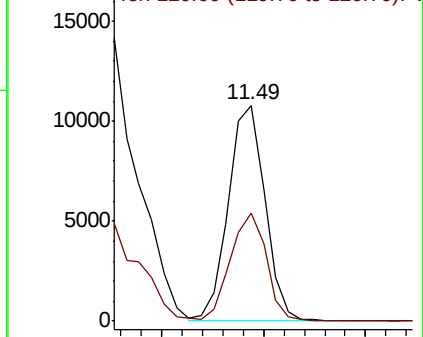
105 100

120 49.1 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 4.125 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX016279.D

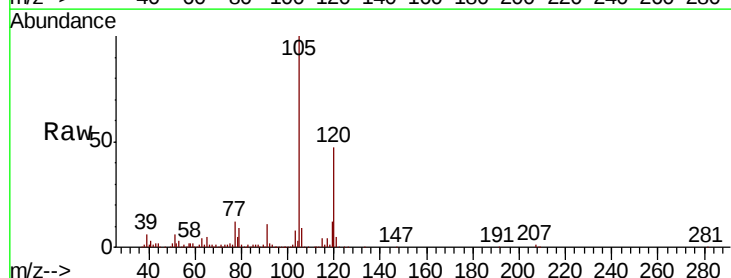
Acq: 15 May 2020 14:40

Tgt Ion:105 Resp: 53011

Ion Ratio Lower Upper

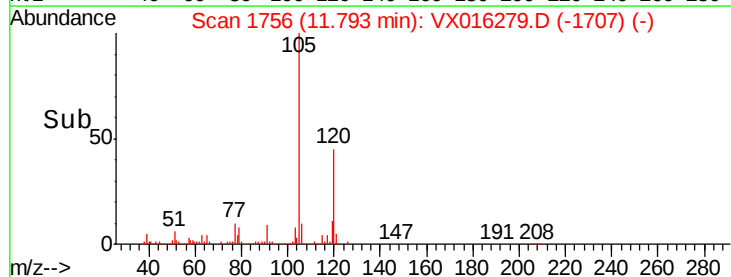
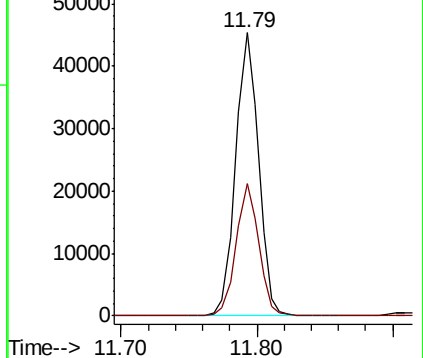
105 100

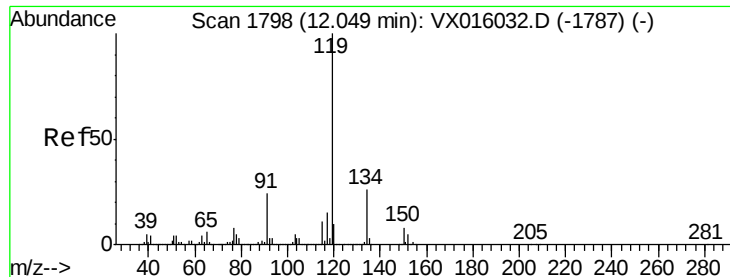
120 46.3 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

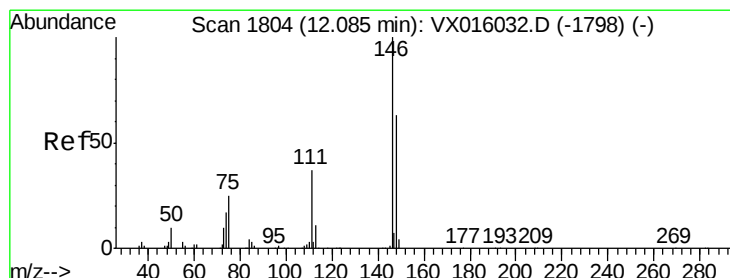
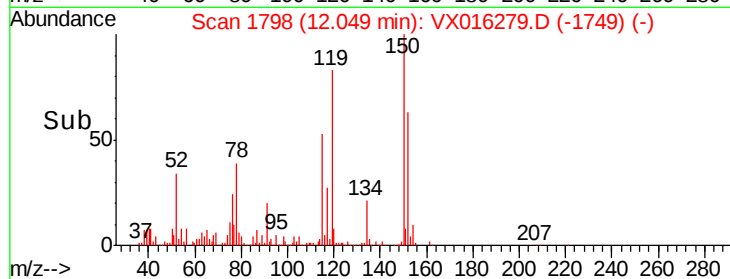
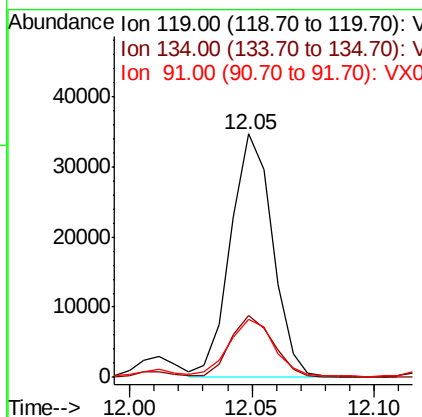
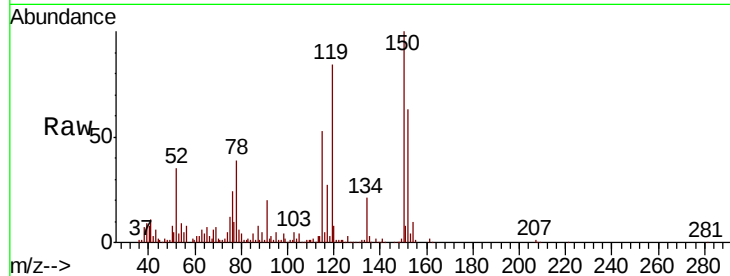




#86
 p-Isopropyltoluene
 Concen: 3.025 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VX016279.D
 Acq: 15 May 2020 14:40

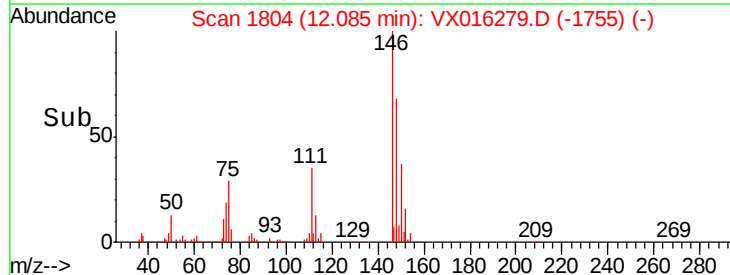
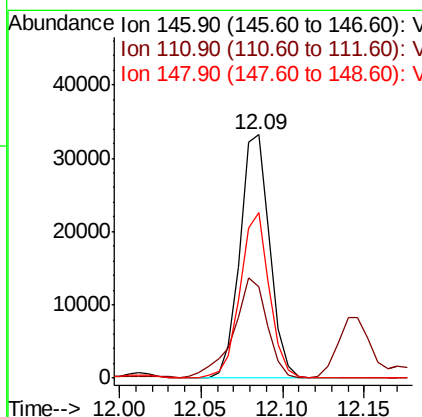
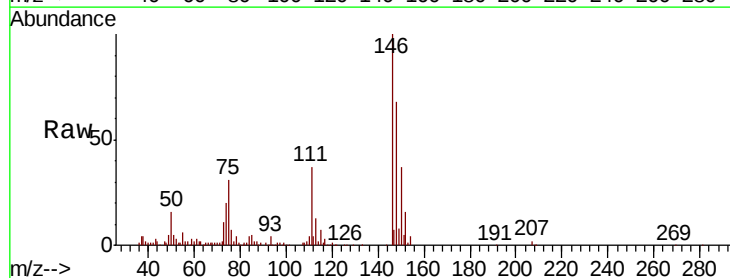
Instrument :
 MSVOA_X
 ClientSampleId :
 400513791-VOA

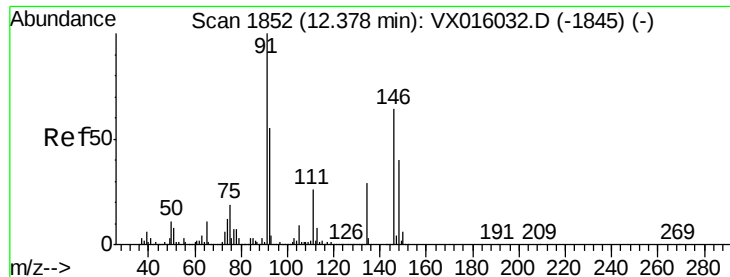
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.1	39.3
91	25.5	11.8	35.4



#88
 1,4-Dichlorobenzene
 Concen: 5.967 ug/l
 RT: 12.09 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VX016279.D
 Acq: 15 May 2020 14:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.5	19.6	58.7
148	67.0	31.8	95.3





#91

1,2-Dichlorobenzene

Concen: 0.767 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

400513791-VOA

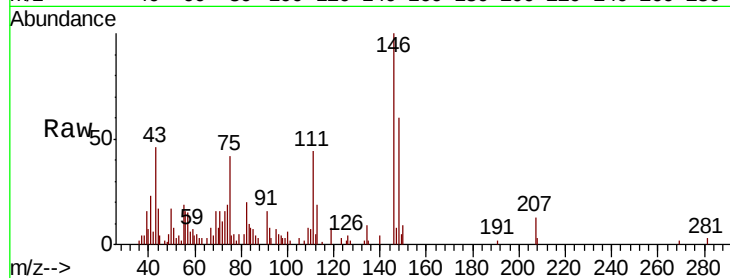
Tot Ion:146 Resp: 5151

Ion Ratio Lower Upper

146 100

111 49.6 21.1 63.1

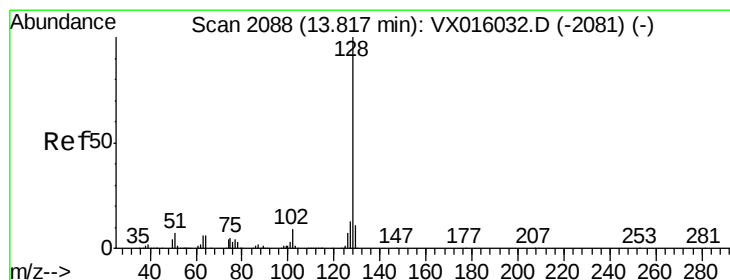
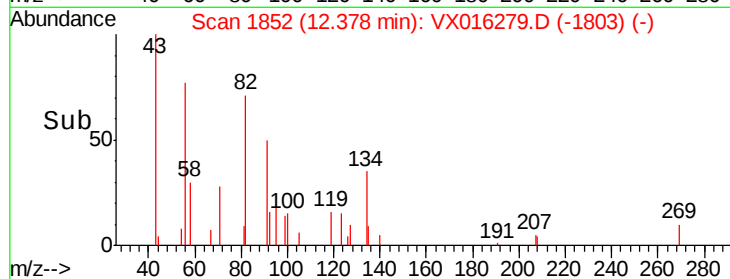
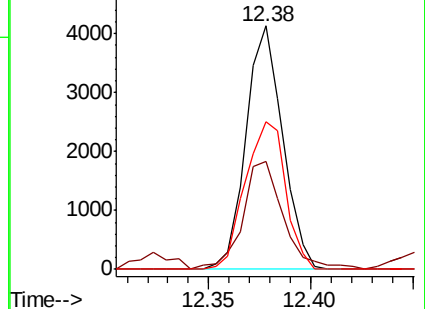
148 66.9 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 30.091 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016279.D

Acq: 15 May 2020 14:40

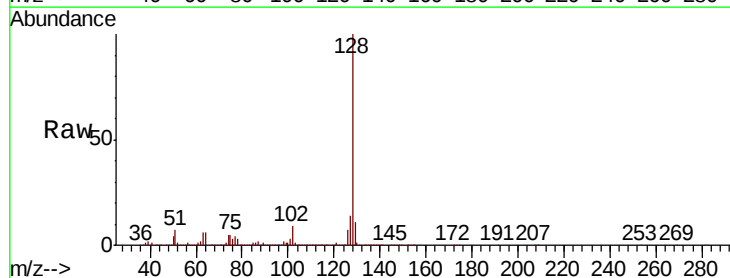
Tgt Ion:128 Resp: 484611

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

