

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052820\
 Data File : VX016476.D
 Acq On : 28 May 2020 11:44
 Operator : JC/SP
 Sample : L2708-04DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0694DL

Quant Time: May 29 03:37:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	325115	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	536437	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	519801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	257428	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	195544	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
35) Dibromofluoromethane	5.47	113	156536	47.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.78%	
50) Toluene-d8	8.70	98	654990	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
62) 4-Bromofluorobenzene	11.12	95	263018	52.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.90%	

Target Compounds

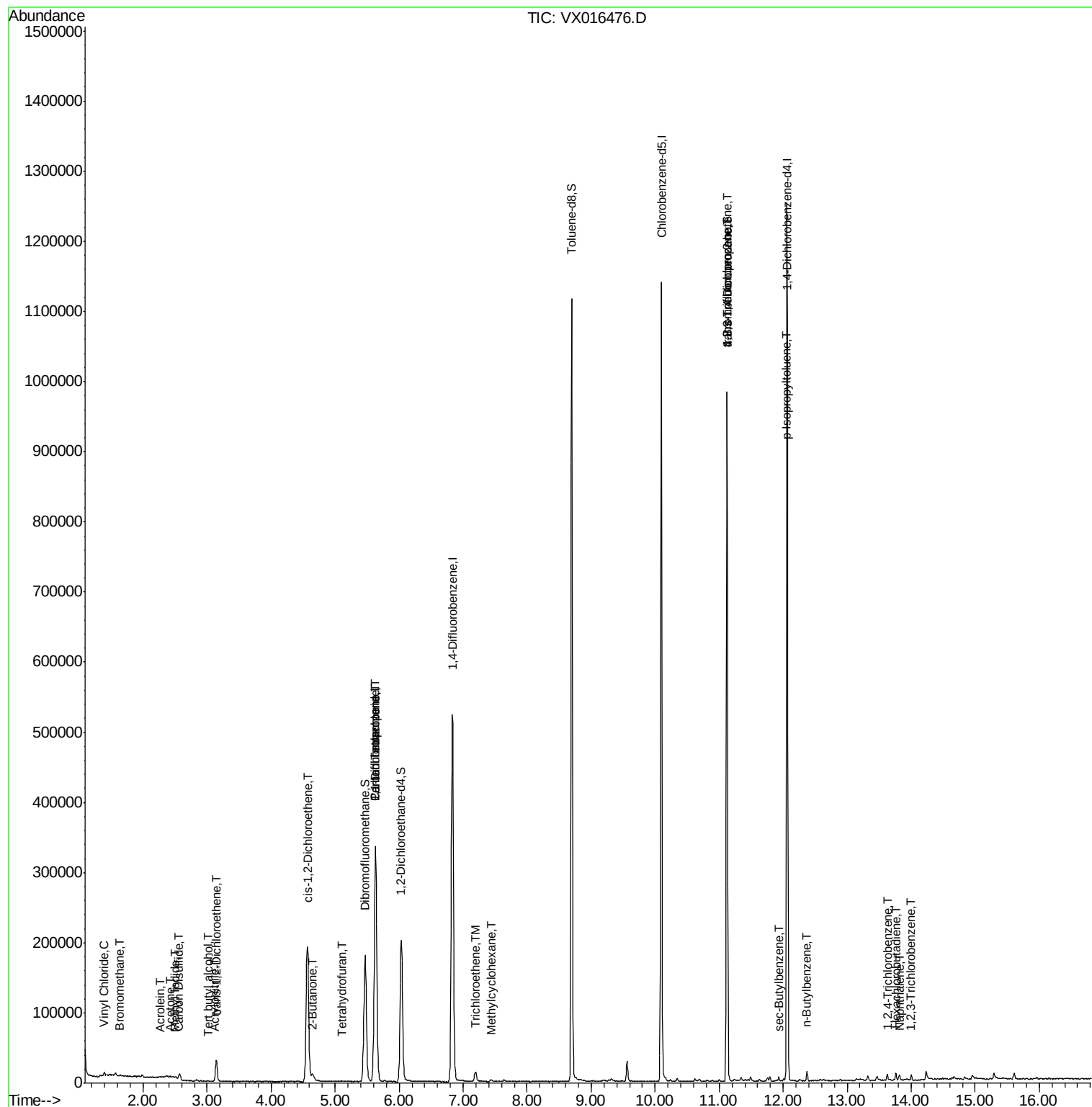
						Qvalue
4) Vinyl Chloride	1.39	62	2352	0.575	ug/l	89
5) Bromomethane	1.64	94	713	0.359	ug/l #	72
10) Methyl Iodide	2.50	142	735	3.251	ug/l #	92
11) Tert butyl alcohol	3.01	59	544	0.525	ug/l #	72
13) Acrolein	2.27	56	591	1.342	ug/l #	77
15) Acrylonitrile	3.12	53	1070	0.505	ug/l	95
16) Acetone	2.42	43	1706	0.964	ug/l	93
17) Carbon Disulfide	2.55	76	4172	0.449	ug/l #	92
21) trans-1,2-Dichloroethene	3.14	96	12393	3.582	ug/l	94
25) 2-Butanone	4.64	43	1086	0.362	ug/l	96
27) cis-1,2-Dichloroethene	4.57	96	130084	32.496	ug/l	92
29) Tetrahydrofuran	5.10	42	916	0.473	ug/l #	65
36) 1,1-Dichloropropene	5.64	75	23256	4.579	ug/l #	50
38) Carbon Tetrachloride	5.64	117	30545	5.723	ug/l #	16
39) Methylcyclohexane	7.45	83	1287	0.233	ug/l #	71
44) Trichloroethene	7.19	130	4677	0.975	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	128293	22.673	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	128293	55.772	ug/l #	14
85) sec-Butylbenzene	11.93	105	3339	0.209	ug/l	92
86) p-Isopropyltoluene	12.05	119	3359	0.225	ug/l #	60
89) n-Butylbenzene	12.37	91	4687	0.376	ug/l	94
93) 1,2,4-Trichlorobenzene	13.63	180	2178	0.418	ug/l	97
94) Hexachlorobutadiene	13.76	225	1290	0.630	ug/l	86
95) Naphthalene	13.82	128	4017	0.225	ug/l	96
96) 1,2,3-Trichlorobenzene	14.00	180	1973	0.386	ug/l	93

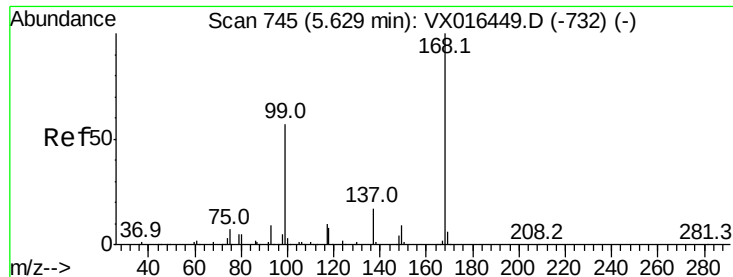
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052820\
Data File : VX016476.D
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Quant Time: May 29 03:37:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleId :

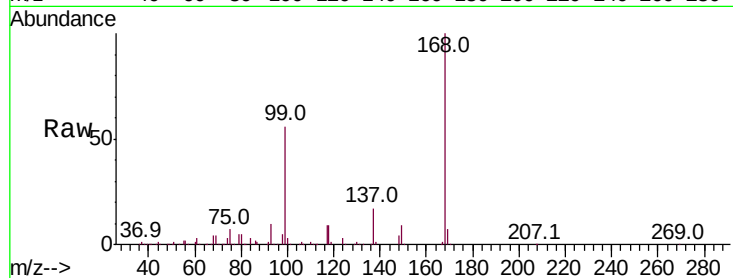
S32-0694DL

Tot Ion:168 Resp: 325115

Ion Ratio Lower Upper

168 100

99 56.0 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

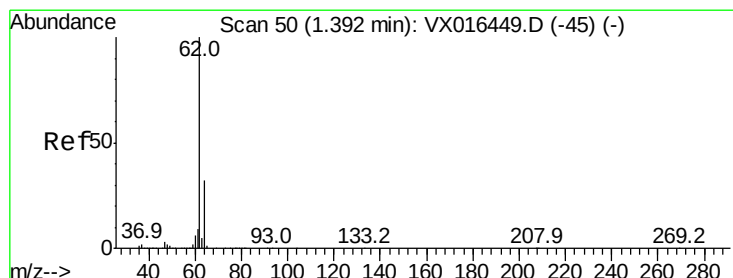
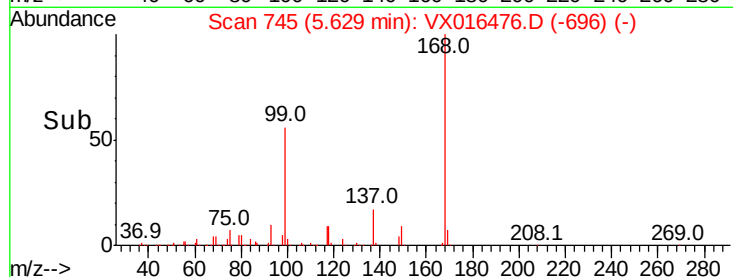
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.575 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016476.D

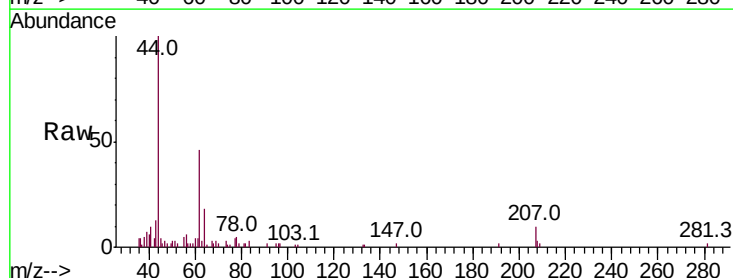
Acq: 28 May 2020 11:44

Tgt Ion: 62 Resp: 2352

Ion Ratio Lower Upper

62 100

64 38.7 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

2500

2000

1500

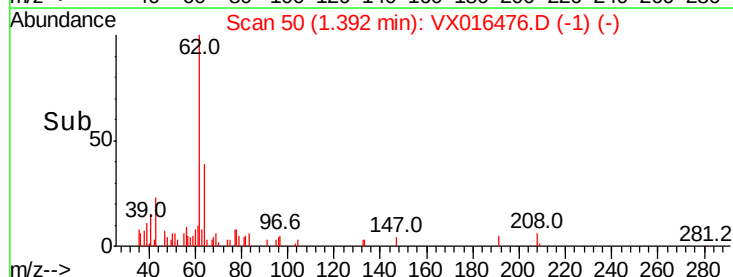
1000

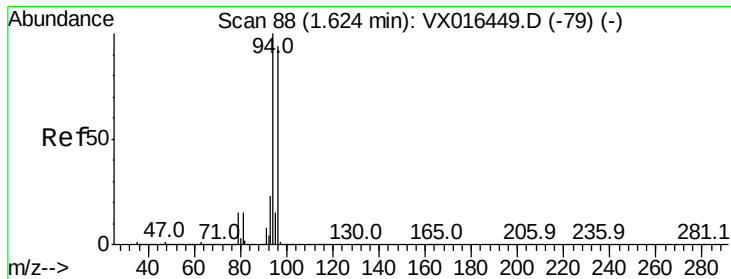
500

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 0.359 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampled :

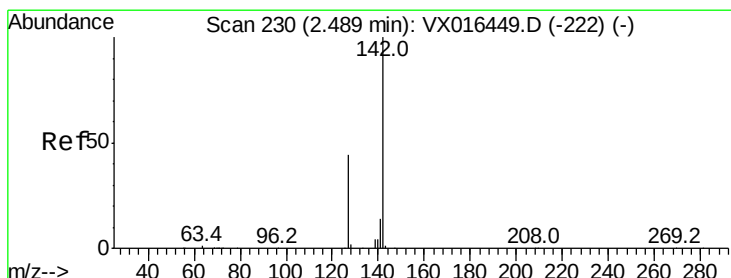
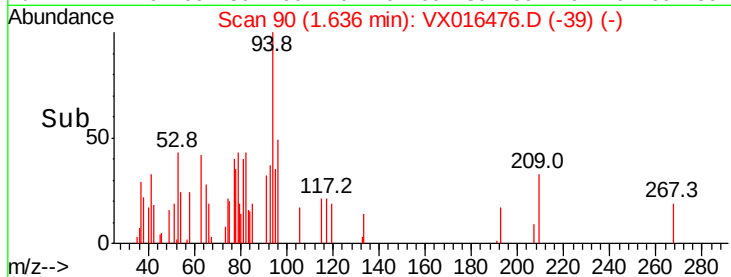
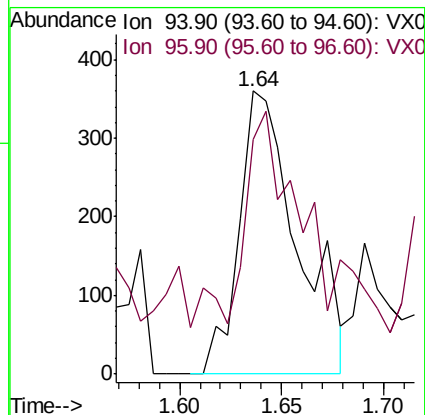
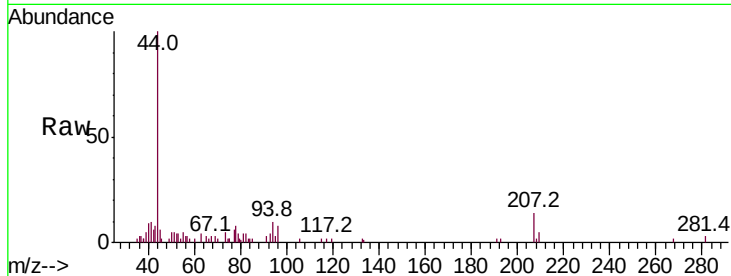
S32-0694DL

Tot Ion: 94 Resp: 713

Ion Ratio Lower Upper

94 100

96 66.7 75.1 112.7#



#10

Methyl Iodide

Concen: 3.251 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

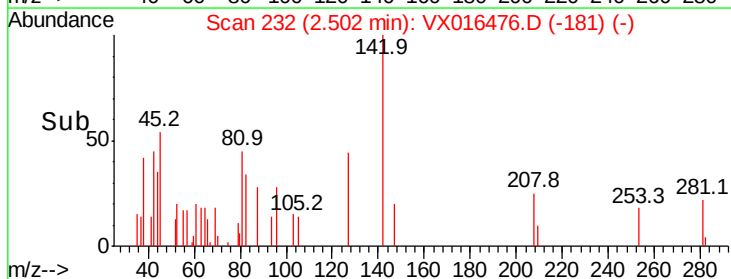
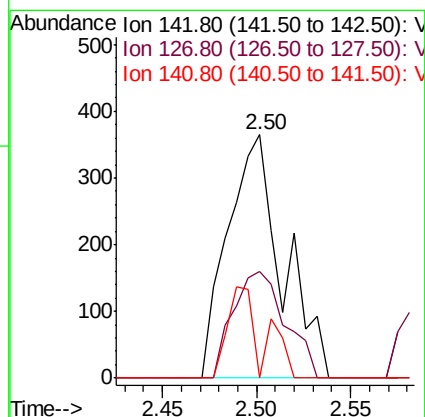
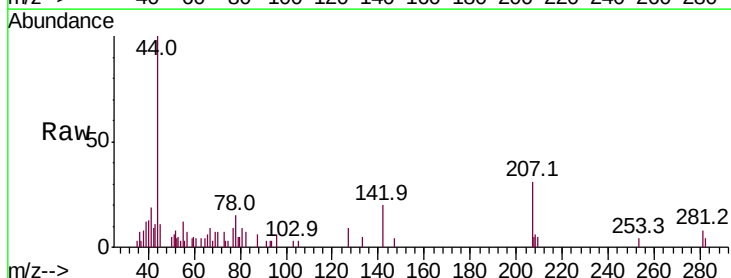
Tgt Ion: 142 Resp: 735

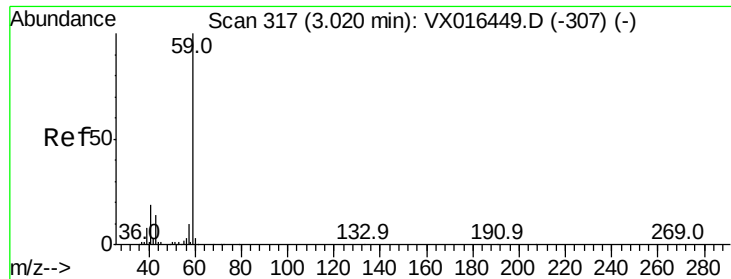
Ion Ratio Lower Upper

142 100

127 41.9 35.3 52.9

141 23.9 11.4 17.2#



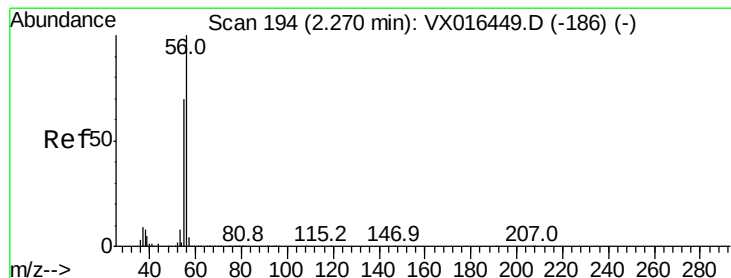
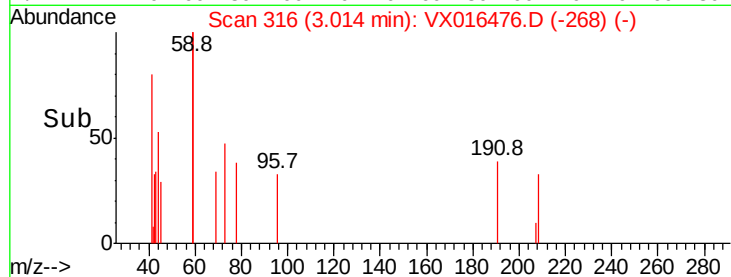
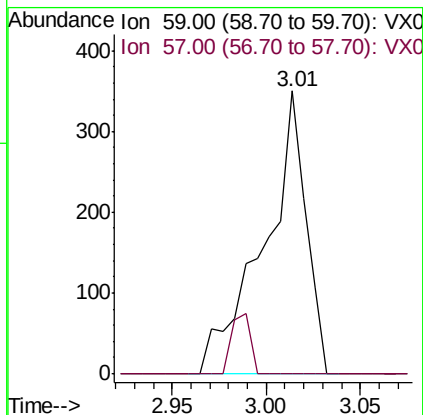
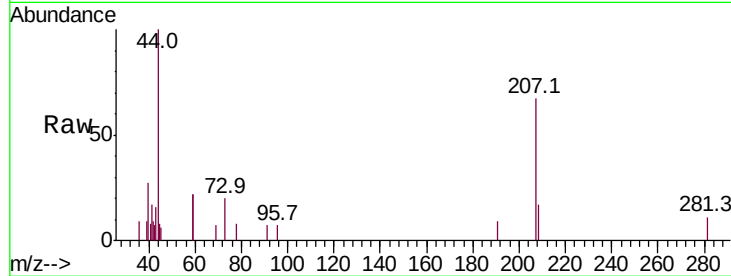


#11

Tert butyl alcohol
 Concen: 0.525 ug/l
 RT: 3.01 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VX016476.D
 Acq: 28 May 2020 11:44

Instrument :
 MSVOA_X
 ClientSampled :
 S32-0694DL

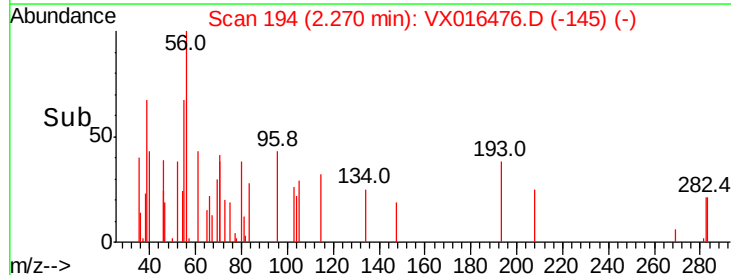
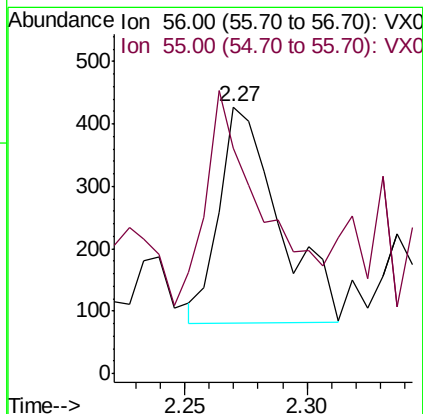
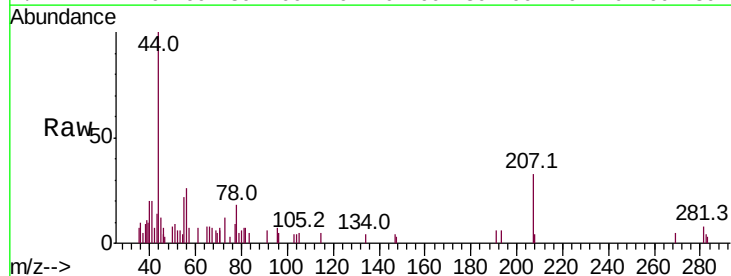
Tot Ion: 59 Resp: 544
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

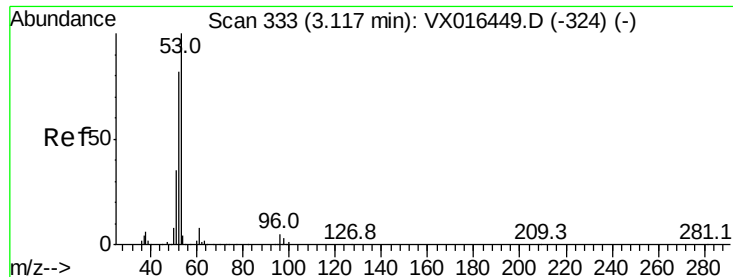


#13

Acrolein
 Concen: 1.342 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. 0.00 min
 Lab File: VX016476.D
 Acq: 28 May 2020 11:44

Tgt Ion: 56 Resp: 591
 Ion Ratio Lower Upper
 56 100
 55 92.6 58.3 87.5#





#15

Acrylonitrile

Concen: 0.505 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleId :

S32-0694DL

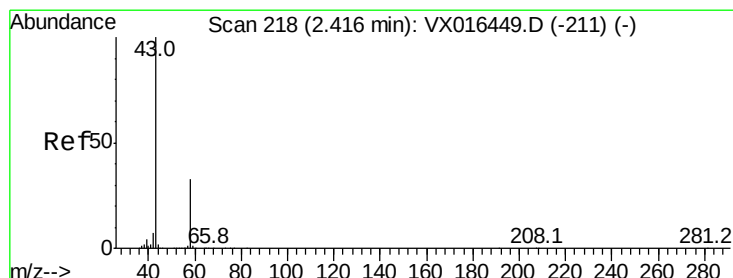
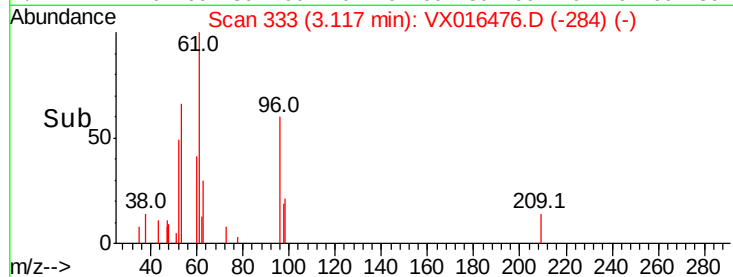
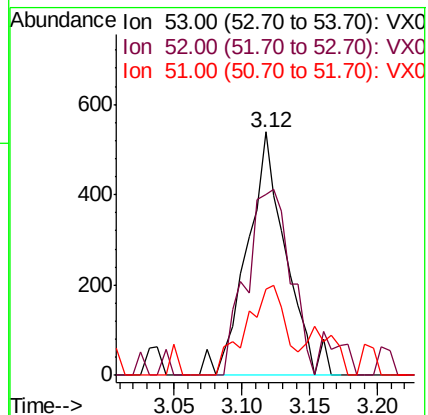
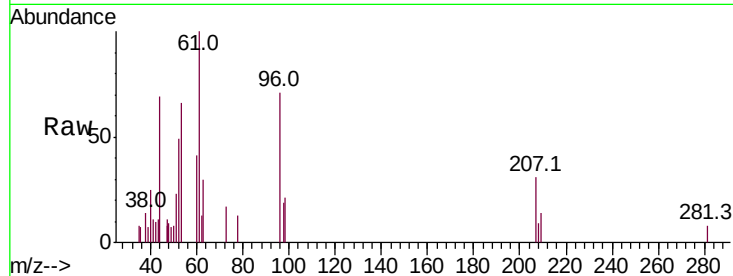
Tot Ion: 53 Resp: 1070

Ion Ratio Lower Upper

53 100

52 87.8 66.7 100.1

51 38.5 28.6 43.0



#16

Acetone

Concen: 0.964 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016476.D

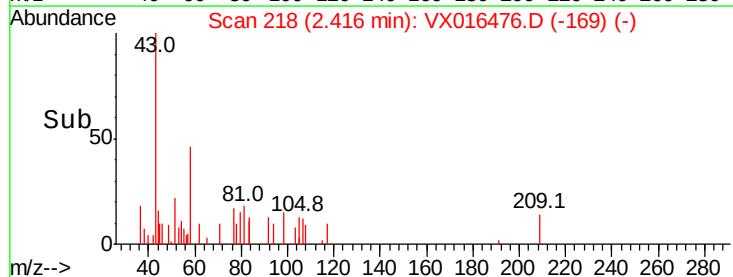
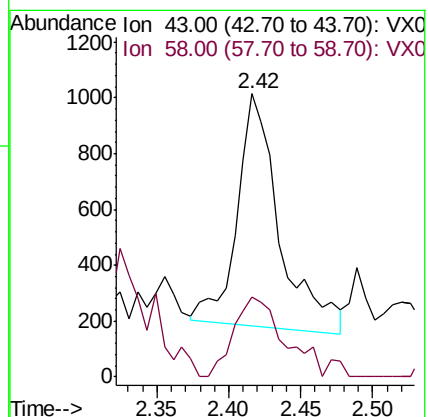
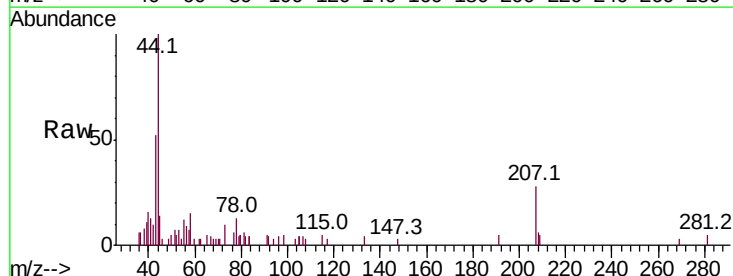
Acq: 28 May 2020 11:44

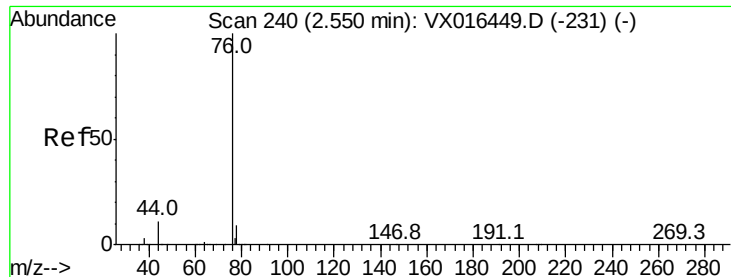
Tgt Ion: 43 Resp: 1706

Ion Ratio Lower Upper

43 100

58 28.9 26.1 39.1





#17

Carbon Disulfide

Concen: 0.449 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleId :

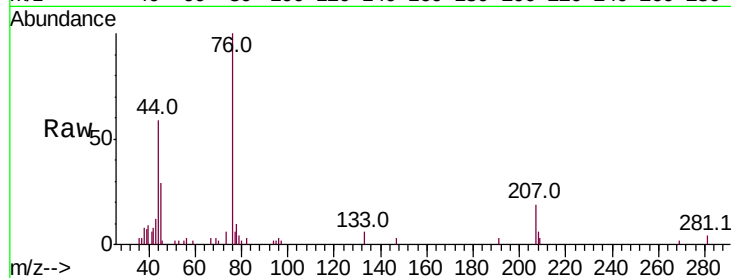
S32-0694DL

Tot Ion: 76 Resp: 4172

Ion Ratio Lower Upper

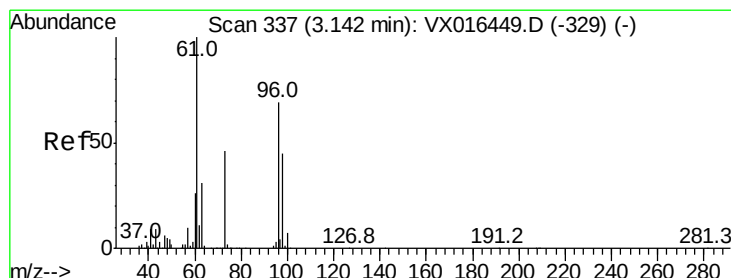
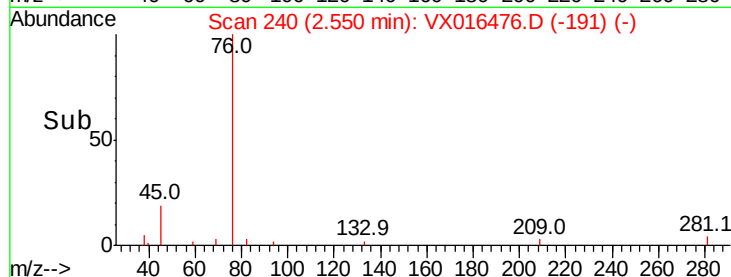
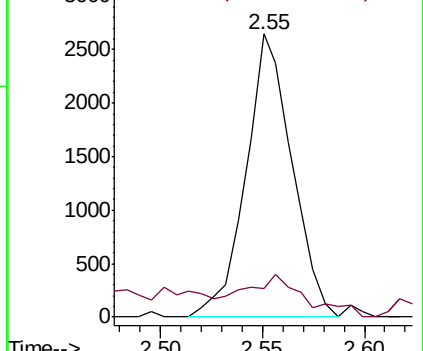
76 100

78 6.3 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 3.582 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

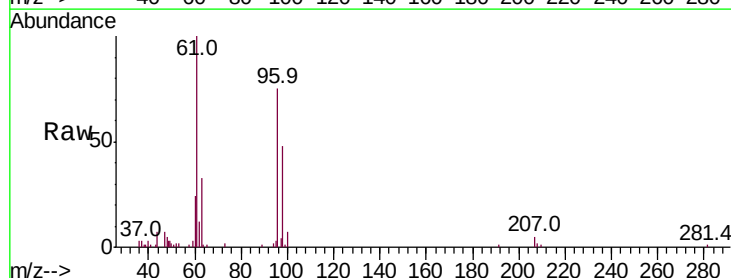
Tgt Ion: 96 Resp: 12393

Ion Ratio Lower Upper

96 100

61 133.6 115.3 172.9

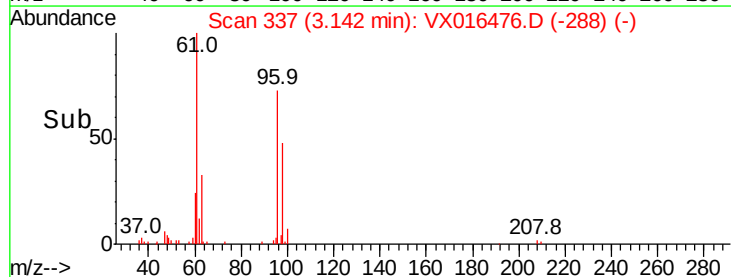
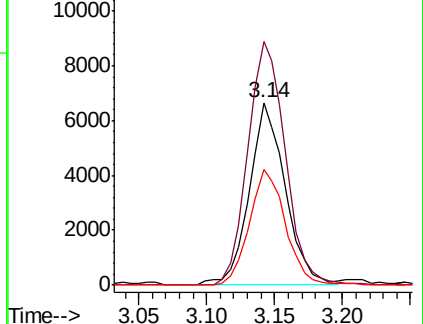
98 63.5 51.9 77.9

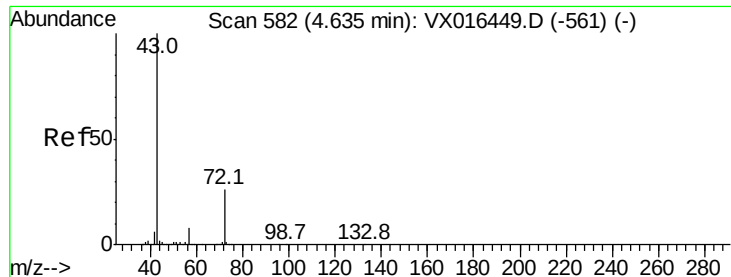


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#25

2-Butanone

Concen: 0.362 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampled :

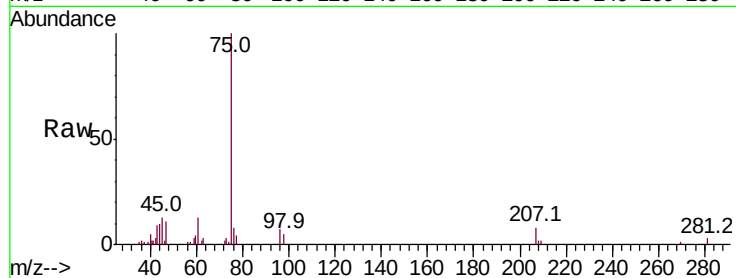
S32-0694DL

Tot Ion: 43 Resp: 1086

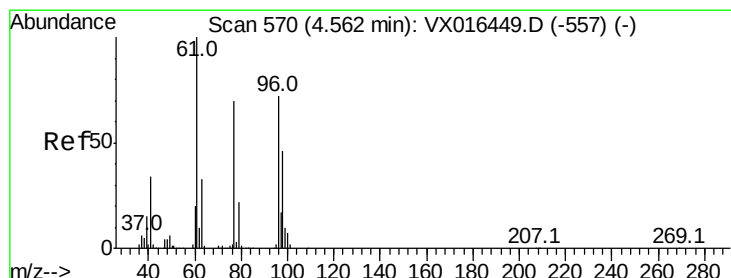
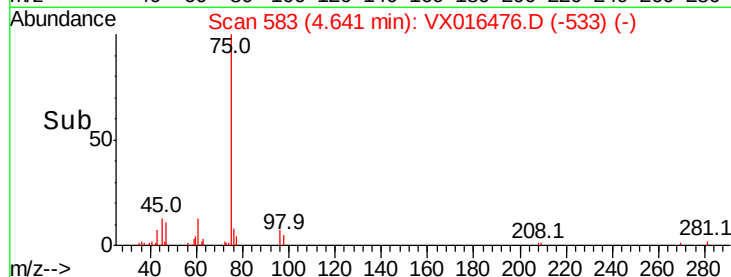
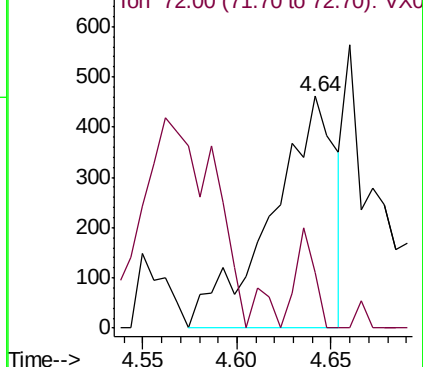
Ion Ratio Lower Upper

43 100

72 24.1 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 32.496 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

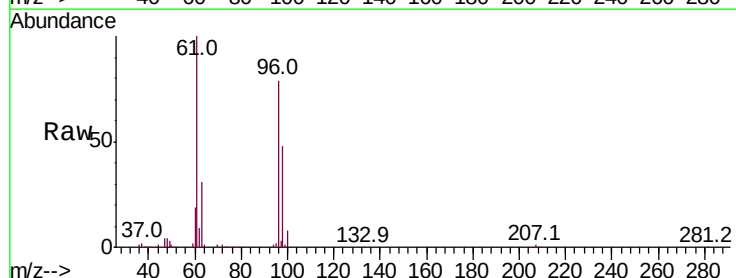
Tgt Ion: 96 Resp: 130084

Ion Ratio Lower Upper

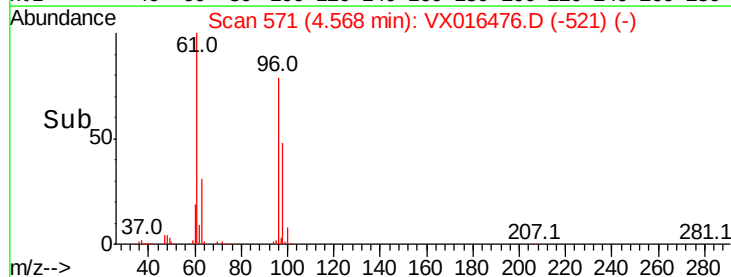
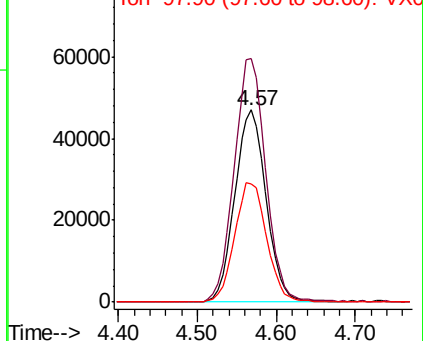
96 100

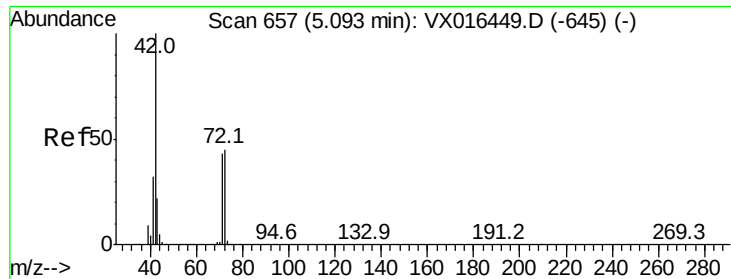
61 127.6 0.0 284.6

98 63.7 0.0 127.2



Abundance Ion 95.90 (95.60 to 96.60): VX0





#29

Tetrahydrofuran

Concen: 0.473 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleID :

S32-0694DL

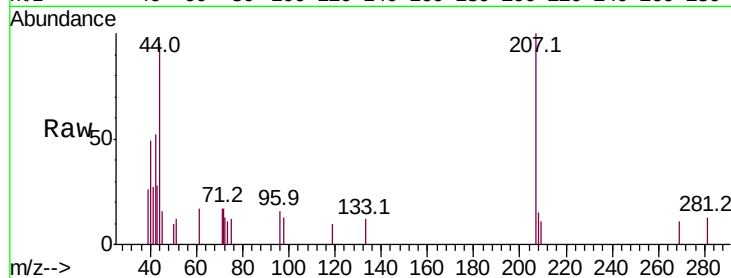
Tot Ion: 42 Resp: 916

Ion Ratio Lower Upper

42 100

72 21.2 37.0 55.4#

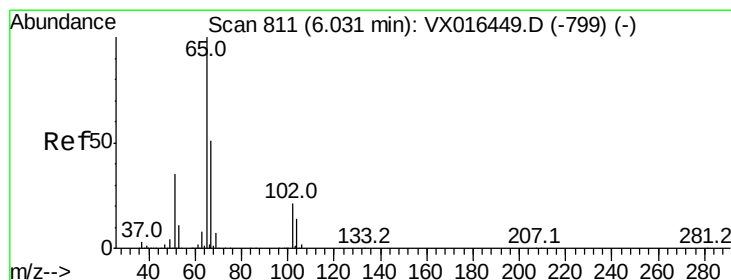
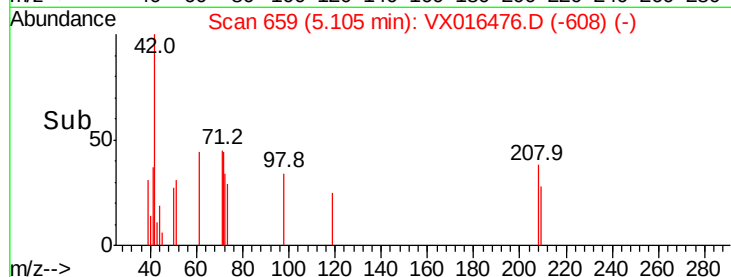
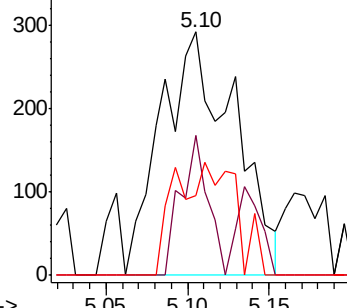
71 22.5 34.1 51.1#



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: 48.432 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016476.D

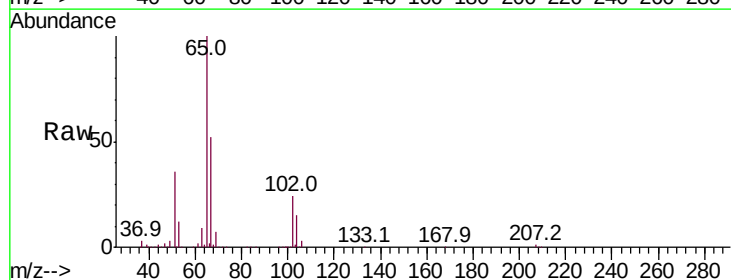
Acq: 28 May 2020 11:44

Tgt Ion: 65 Resp: 195544

Ion Ratio Lower Upper

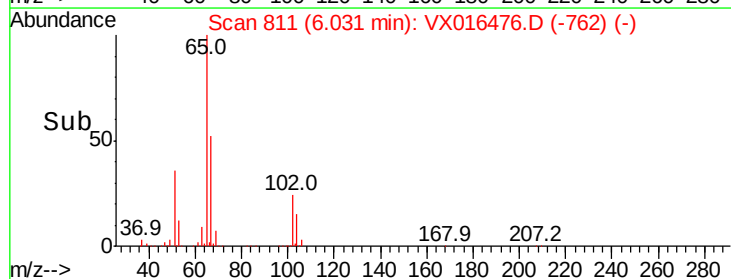
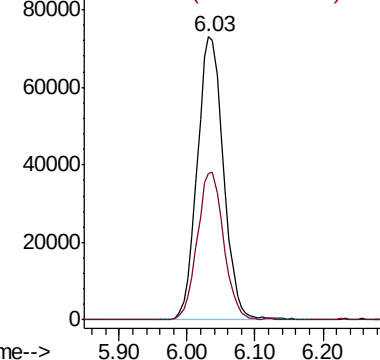
65 100

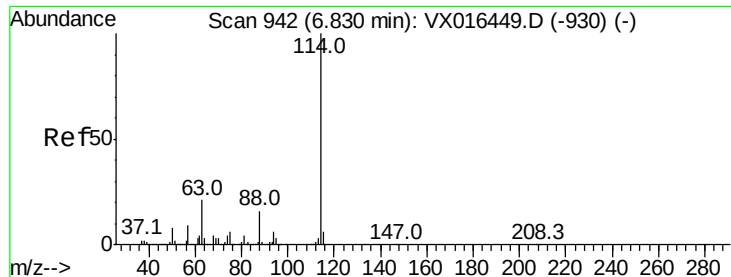
67 52.4 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleId :

S32-0694DL

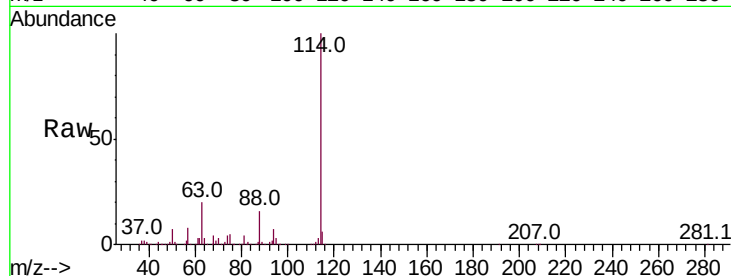
Tot Ion:114 Resp: 536437

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

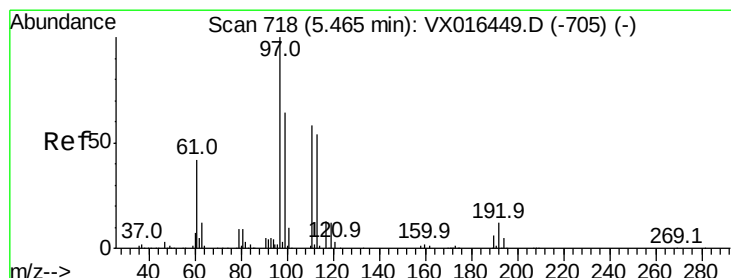
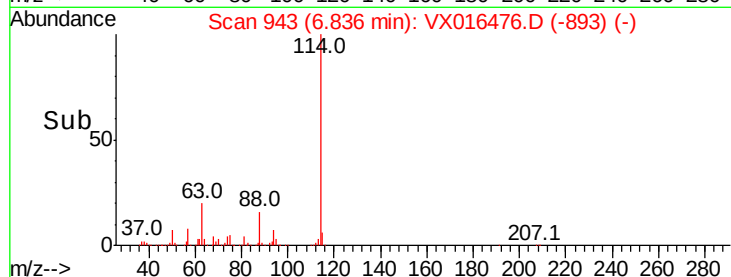
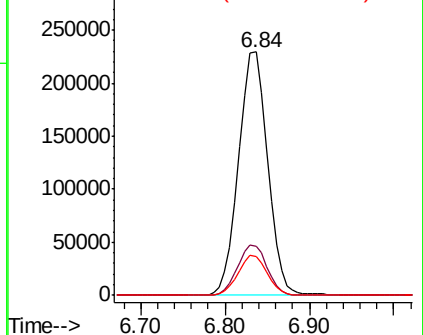
88 15.9 0.0 32.8



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: 47.391 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

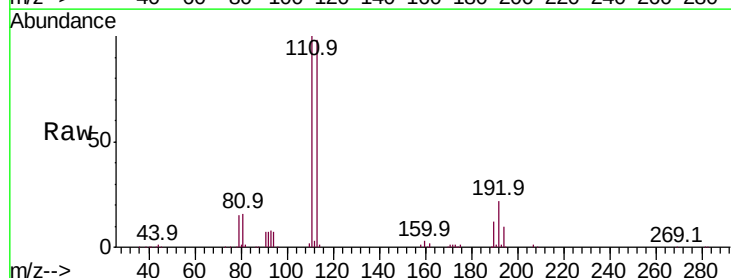
Tgt Ion:113 Resp: 156536

Ion Ratio Lower Upper

113 100

111 102.6 83.0 124.6

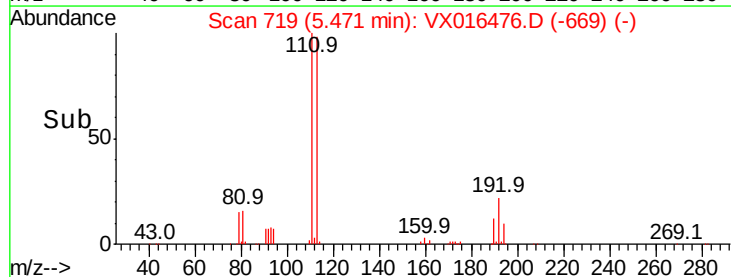
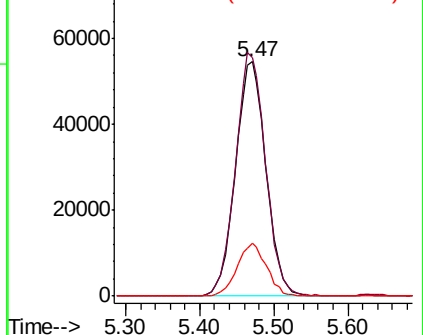
192 21.7 17.7 26.5

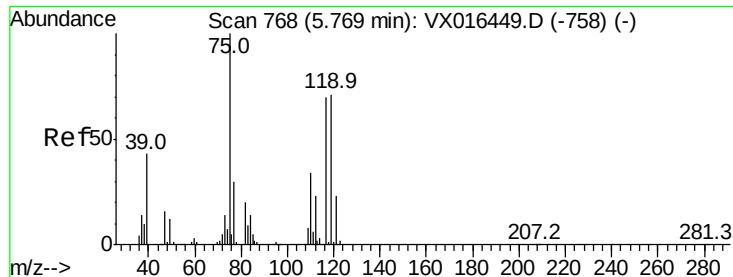


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

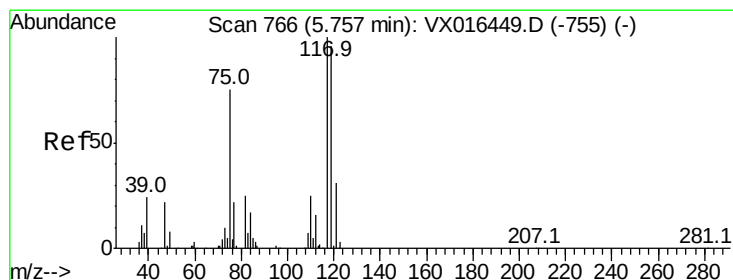
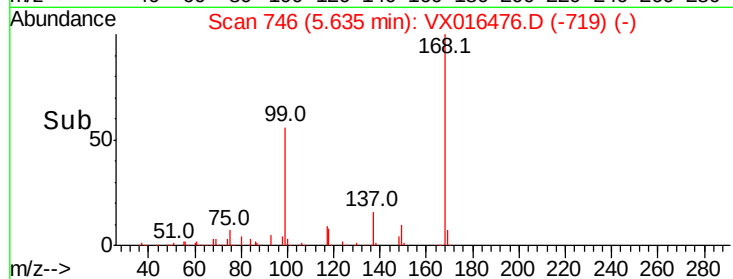
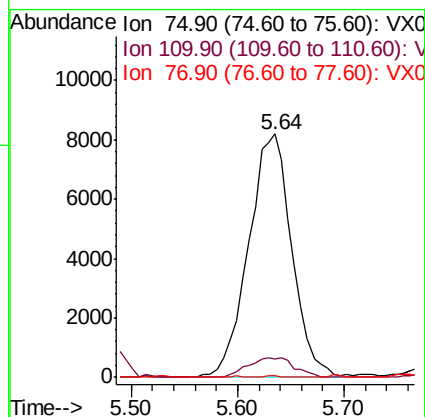
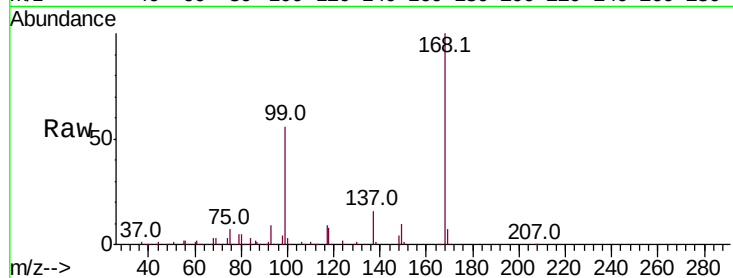




#36
 1,1-Dichloropropene
 Concen: 4.579 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016476.D
 Acq: 28 May 2020 11:44

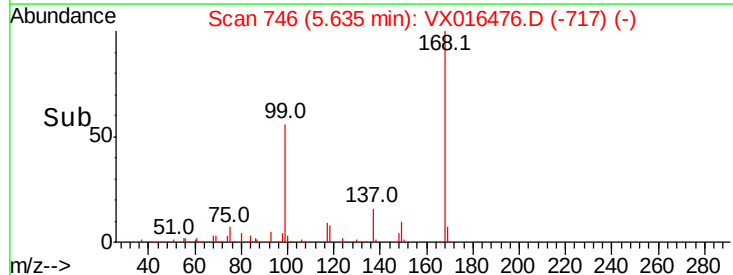
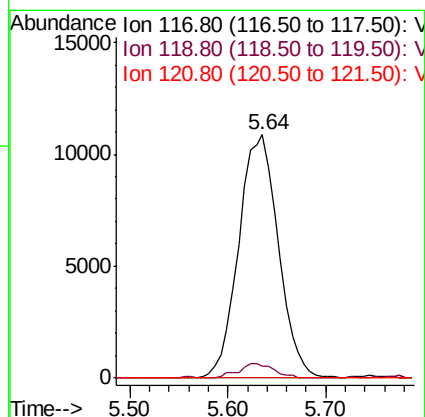
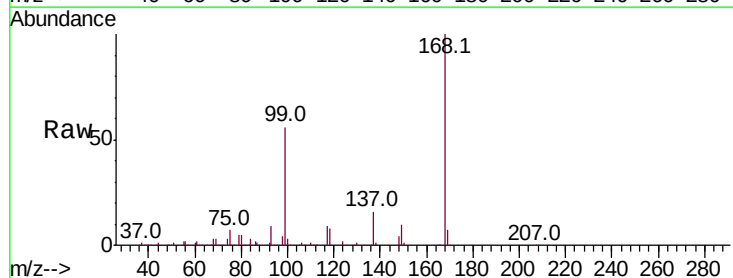
Instrument :
 MSVOA_X
 ClientSampled :
 S32-0694DL

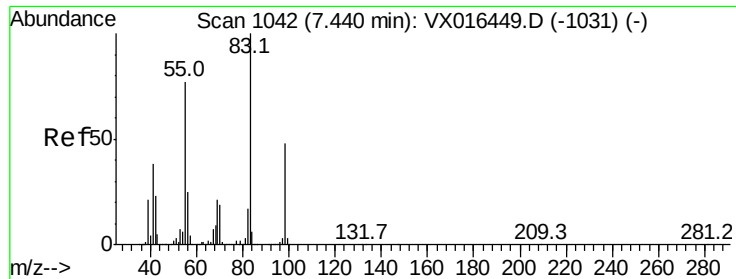
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.4	52.3#
77	0.2	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.723 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX016476.D
 Acq: 28 May 2020 11:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.3	114.5#
121	0.0	24.6	37.0#





#39

Methylvlcyclohexane

Concen: 0.233 ug/l

RT: 7.45 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampled :

S32-0694DL

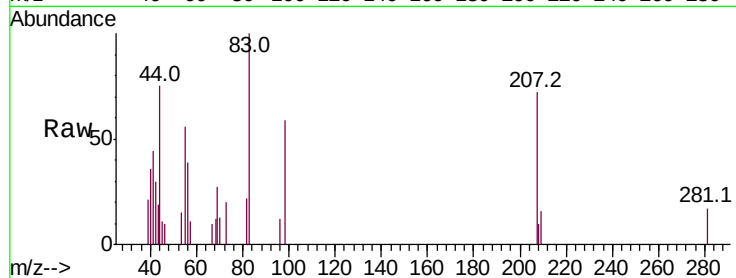
Tot Ion: 83 Resp: 1287

Ion Ratio Lower Upper

83 100

55 44.4 61.7 92.5#

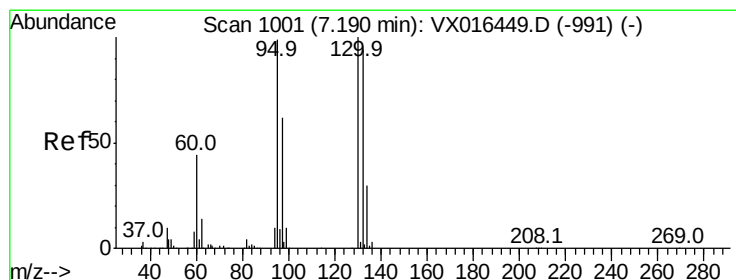
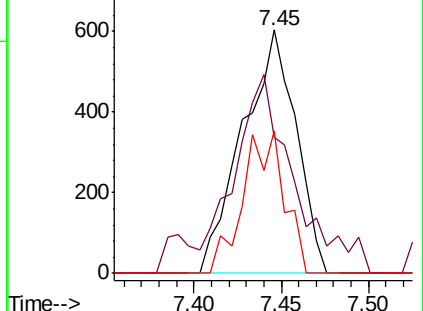
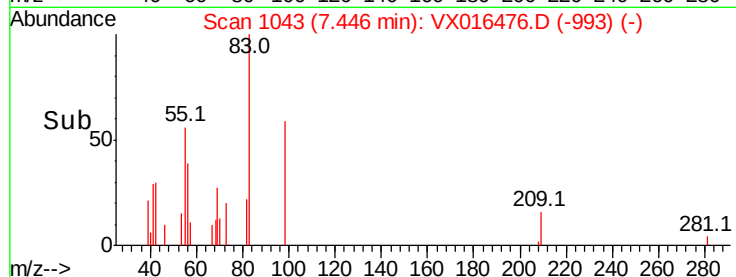
98 58.6 38.7 58.1#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#44

Trichloroethene

Concen: 0.975 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX016476.D

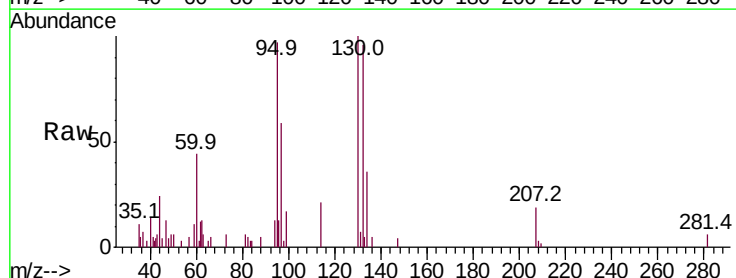
Acq: 28 May 2020 11:44

Tgt Ion:130 Resp: 4677

Ion Ratio Lower Upper

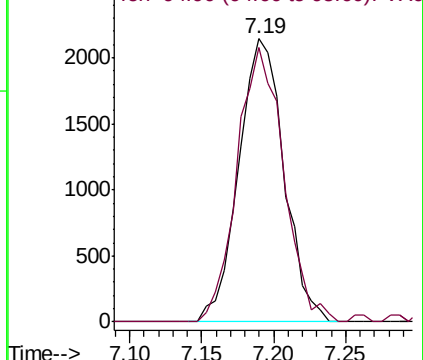
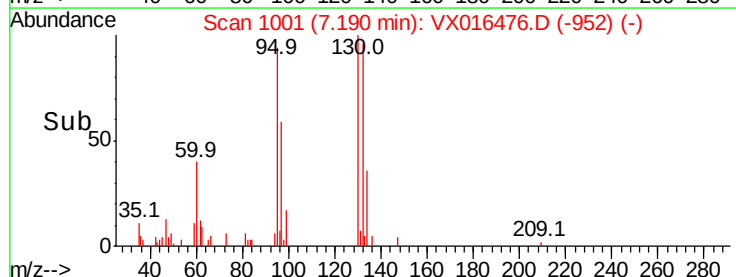
130 100

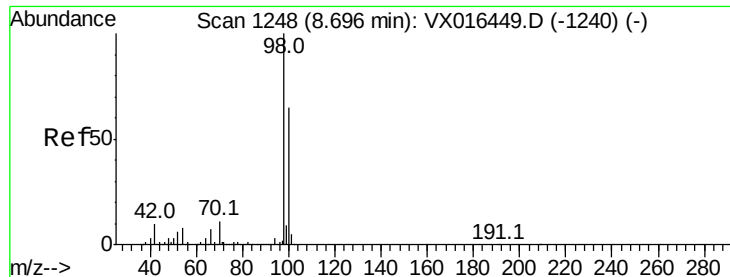
95 96.8 0.0 198.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.947 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleId :

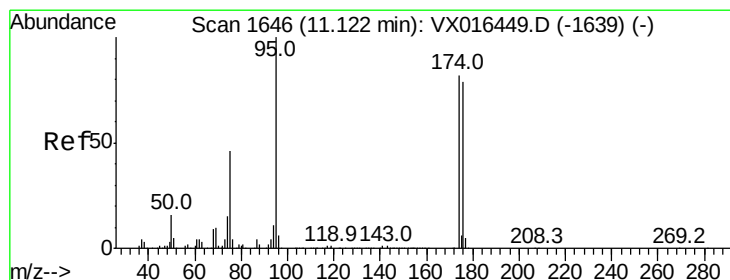
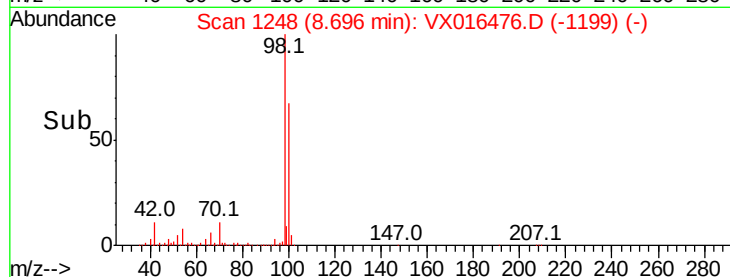
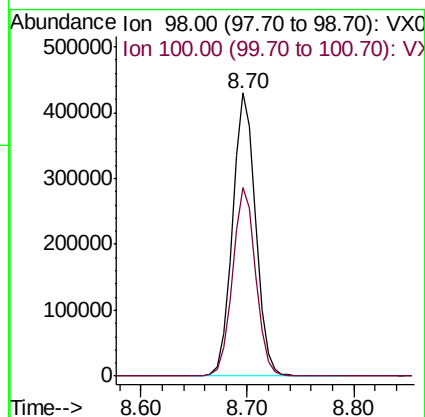
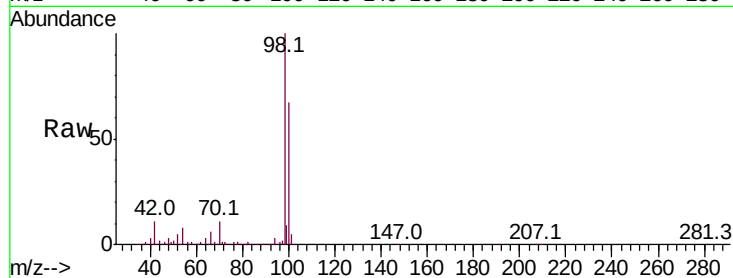
S32-0694DL

Tot Ion: 98 Resp: 654990

Ion Ratio Lower Upper

98 100

100 66.8 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 52.946 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

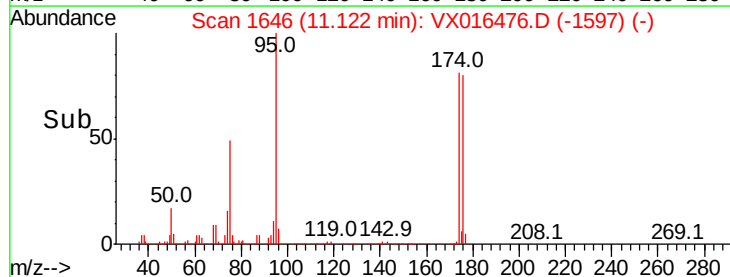
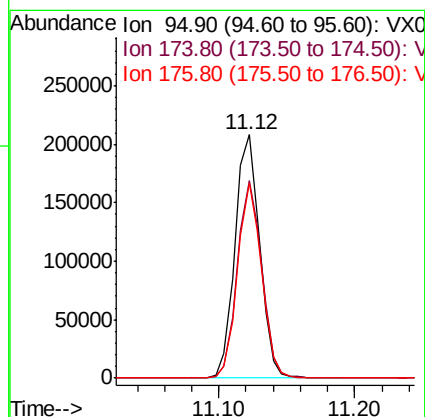
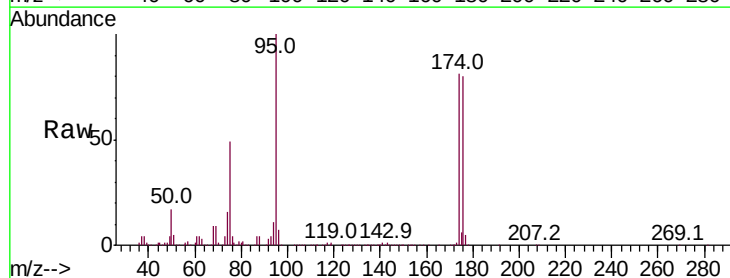
Tgt Ion: 95 Resp: 263018

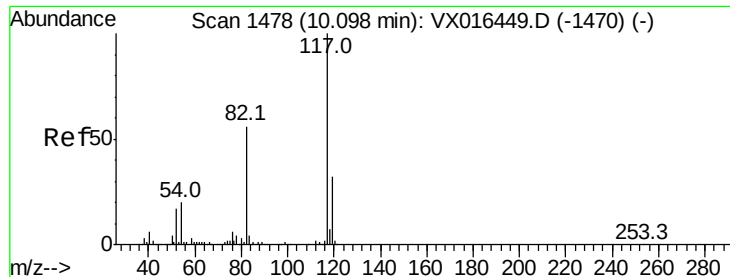
Ion Ratio Lower Upper

95 100

174 80.3 0.0 163.0

176 78.1 0.0 156.8

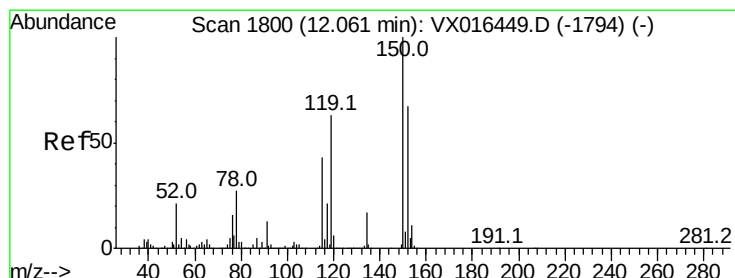
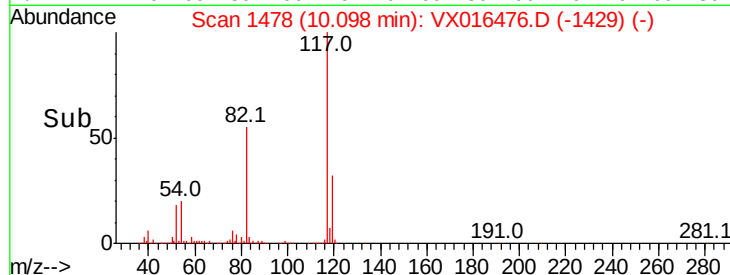
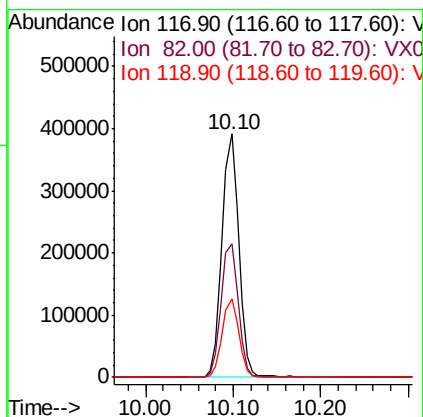
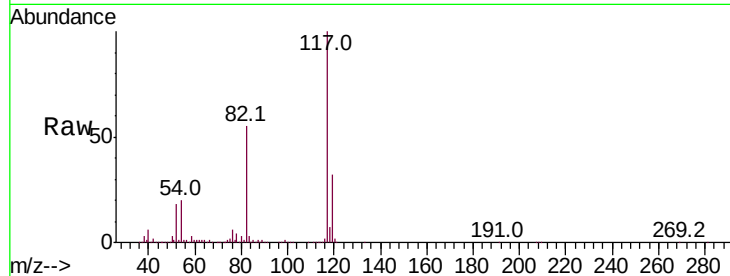




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016476.D
Acq: 28 May 2020 11:44

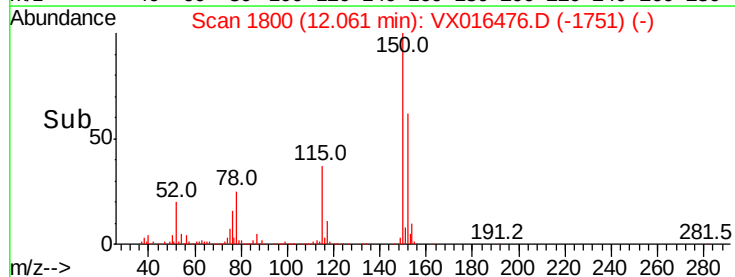
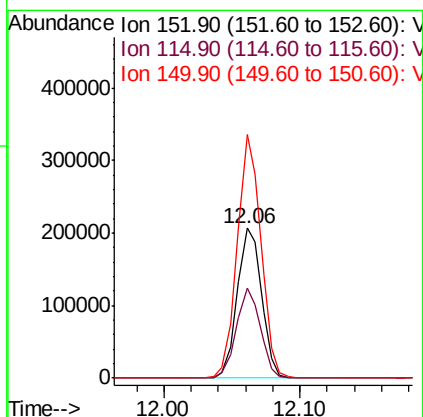
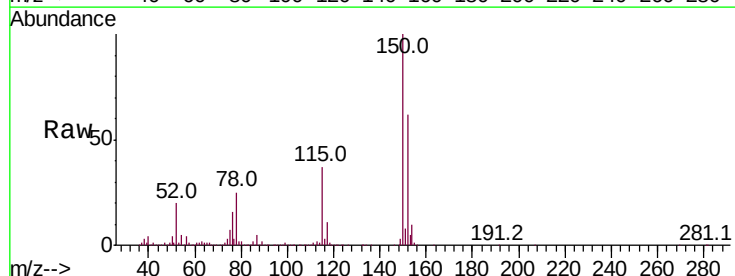
Instrument :
MSVOA_X
ClientSampleId :
S32-0694DL

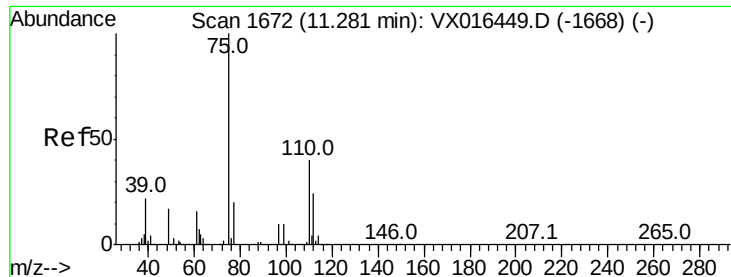
Tot Ion:117 Resp: 519801
Ion Ratio Lower Upper
117 100
82 55.0 45.0 67.6
119 32.3 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX016476.D
Acq: 28 May 2020 11:44

Tgt Ion:152 Resp: 257428
Ion Ratio Lower Upper
152 100
115 59.1 39.9 119.6
150 157.1 0.0 341.0





#76

1,2,3-Trichloropropane

Concen: 22.673 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleId :

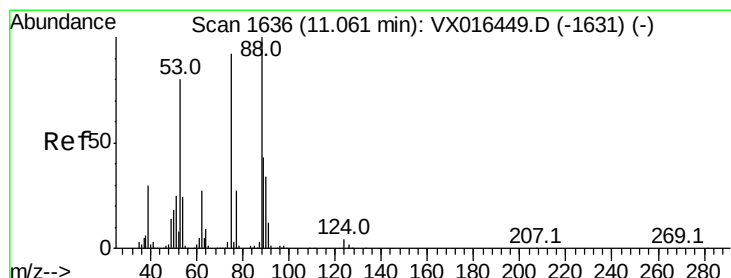
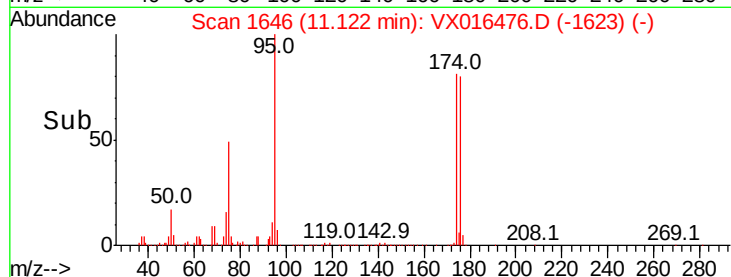
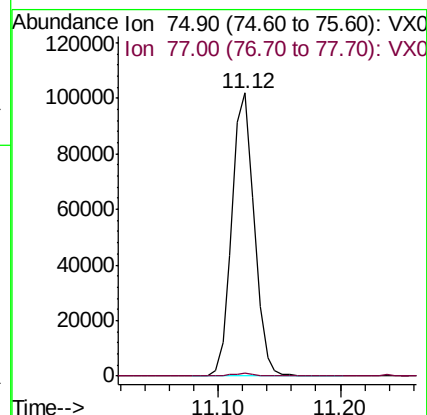
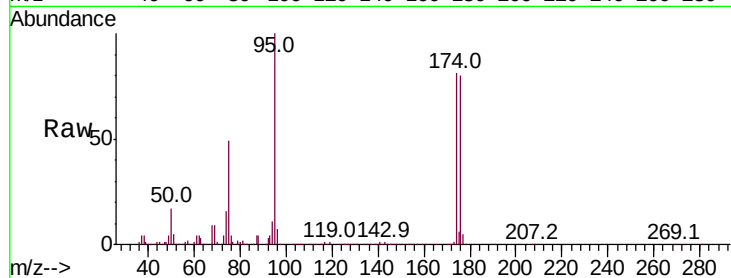
S32-0694DL

Tot Ion: 75 Resp: 128293

Ion Ratio Lower Upper

75 100

77 1.2 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 55.772 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

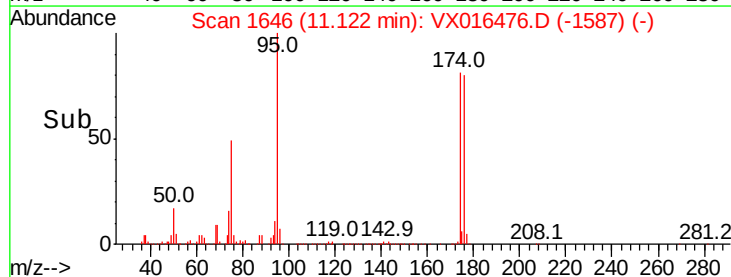
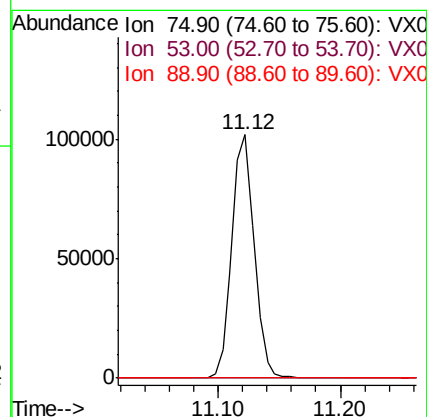
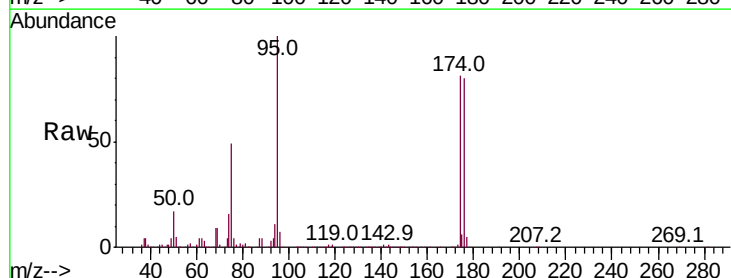
Tgt Ion: 75 Resp: 128293

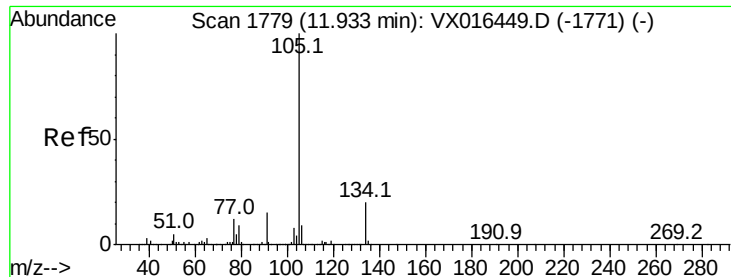
Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

89 0.0 36.6 55.0#





#85

sec-Butylbenzene

Concen: 0.209 ug/l

RT: 11.93 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampleId :

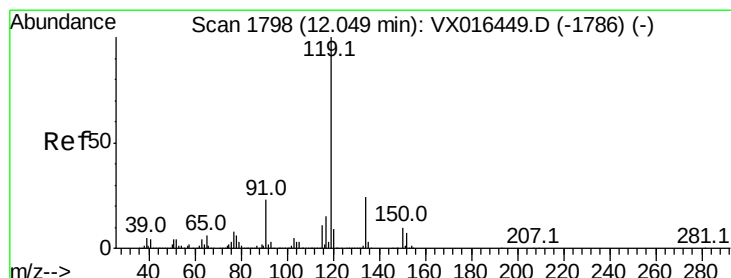
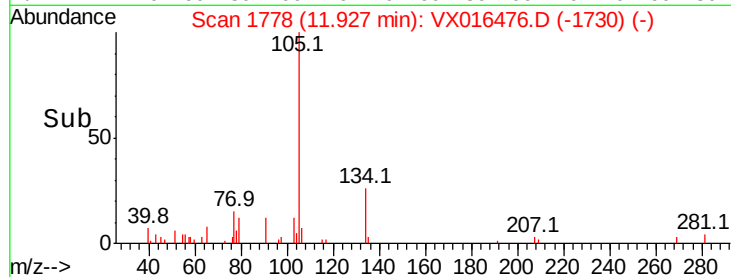
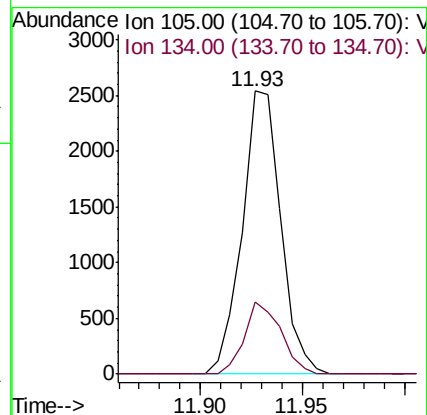
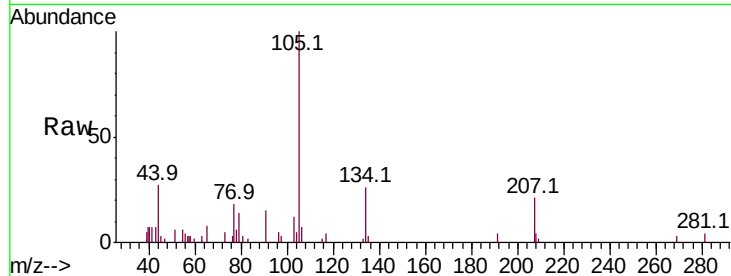
S32-0694DL

Tot Ion:105 Resp: 3339

Ion Ratio Lower Upper

105 100

134 24.0 10.1 30.3



#86

p-Isopropyltoluene

Concen: 0.225 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

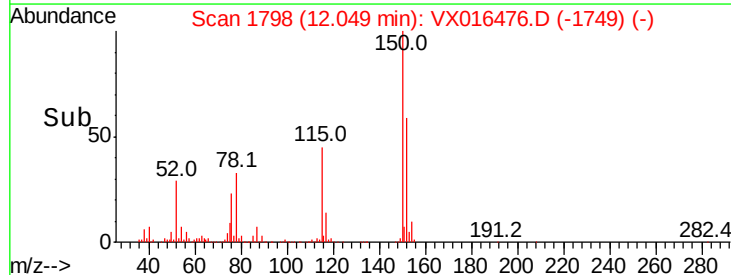
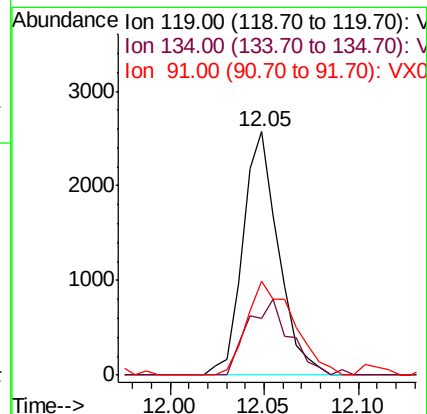
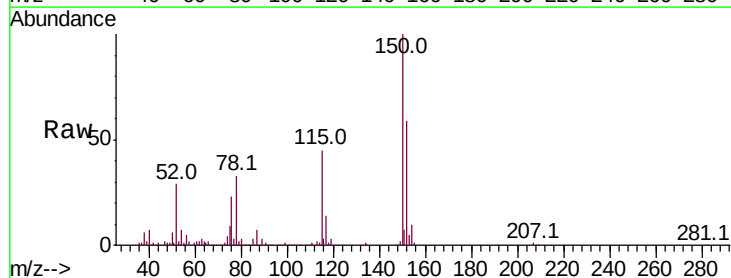
Tgt Ion:119 Resp: 3359

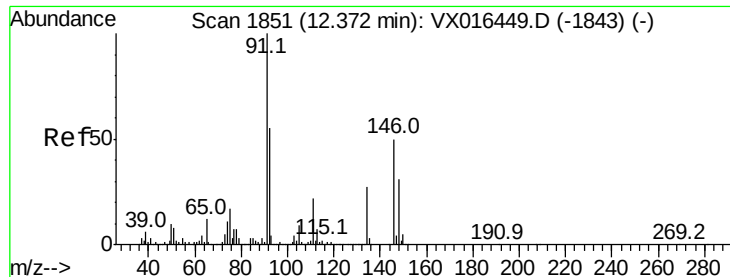
Ion Ratio Lower Upper

119 100

134 37.2 12.7 38.0

91 51.1 11.7 35.0#





#89

n-Butylbenzene

Concen: 0.376 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampled :

S32-0694DL

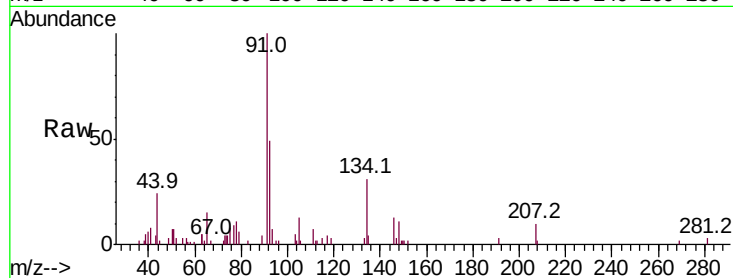
Tot Ion: 91 Resp: 4687

Ion Ratio Lower Upper

91 100

92 48.6 27.2 81.5

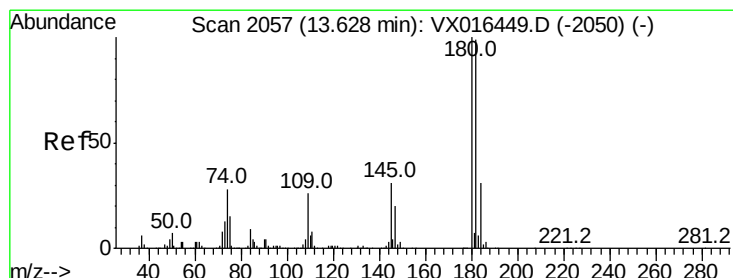
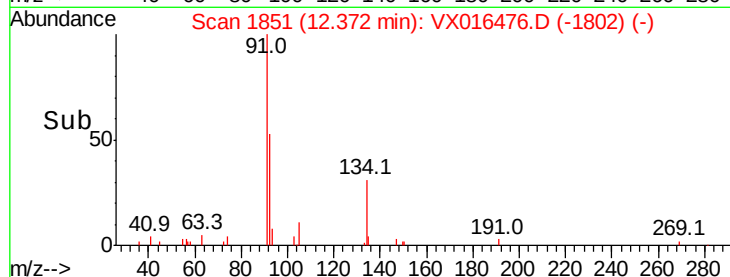
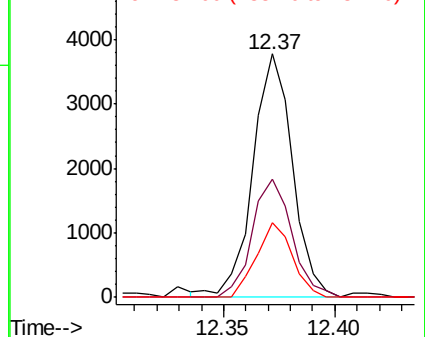
134 27.9 13.1 39.3



Abundance Ion 91.00 (90.70 to 91.70): VX016449.D (-1843) (-)

Ion 92.00 (91.70 to 92.70): VX016449.D (-1843) (-)

Ion 134.00 (133.70 to 134.70): VX016449.D (-1843) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.418 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

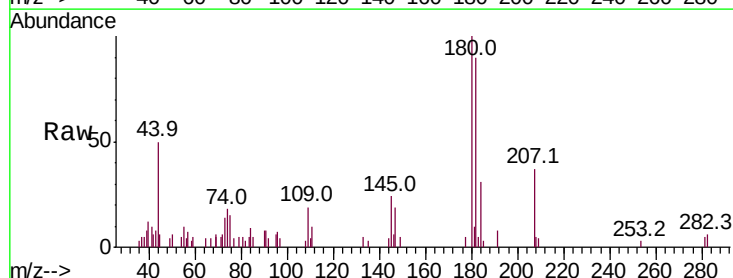
Tgt Ion: 180 Resp: 2178

Ion Ratio Lower Upper

180 100

182 99.5 48.3 144.8

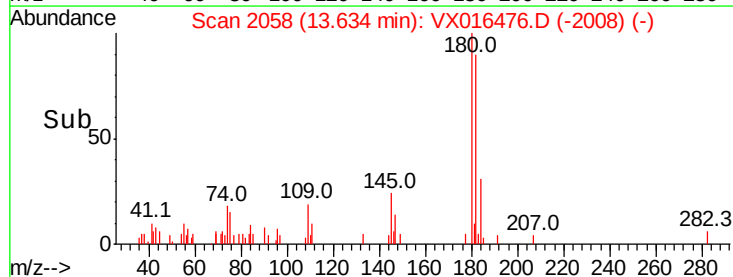
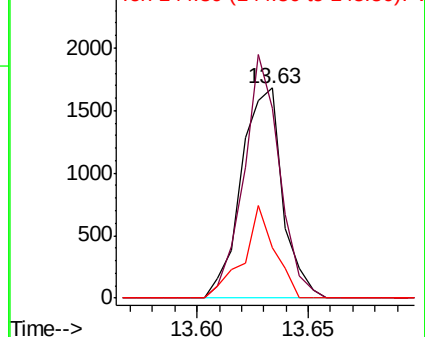
145 33.4 15.4 46.2

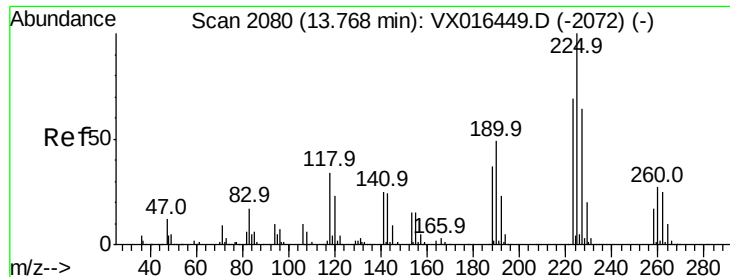


Abundance Ion 179.80 (179.50 to 180.50): VX016449.D (-2050) (-)

Ion 181.80 (181.50 to 182.50): VX016449.D (-2050) (-)

Ion 144.80 (144.50 to 145.50): VX016449.D (-2050) (-)





#94

Hexachlorobutadiene

Concen: 0.630 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

Instrument :

MSVOA_X

ClientSampled :

S32-0694DL

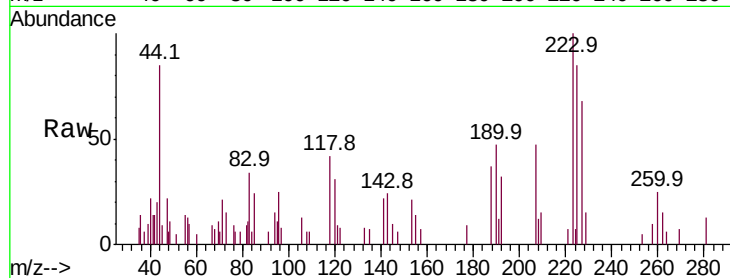
Tot Ion:225 Resp: 1290

Ion Ratio Lower Upper

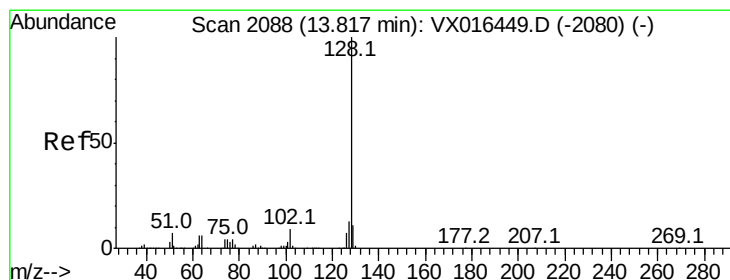
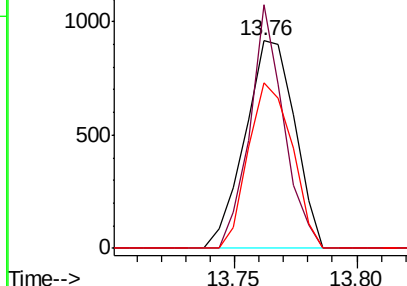
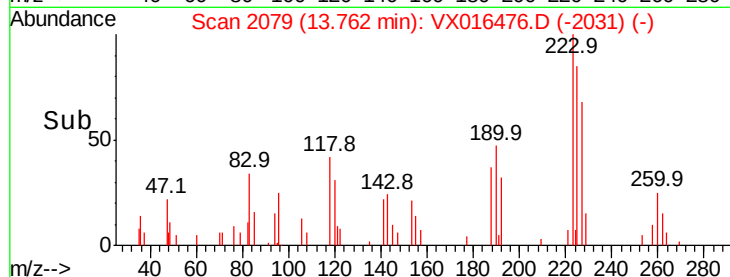
225 100

223 79.8 32.3 96.8

227 70.3 31.6 94.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.225 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016476.D

Acq: 28 May 2020 11:44

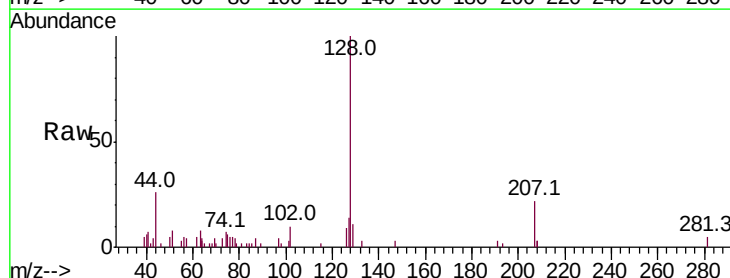
Tgt Ion:128 Resp: 4017

Ion Ratio Lower Upper

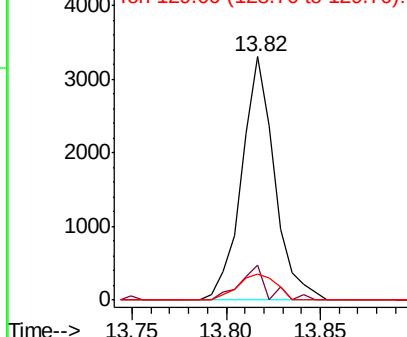
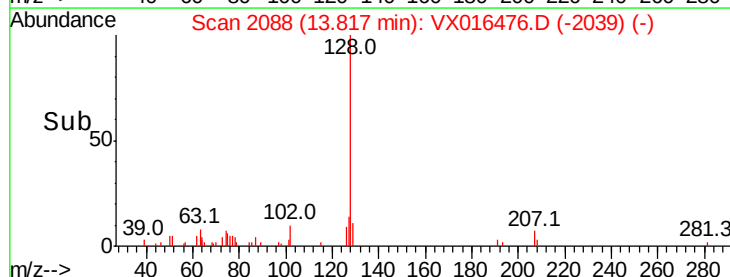
128 100

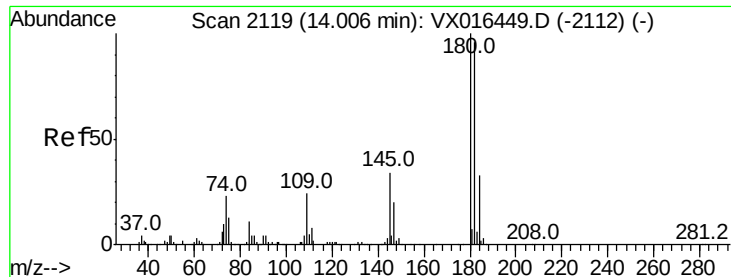
127 11.8 10.6 15.8

129 12.2 8.6 13.0



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.386 ug/l
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.01 min
 Lab File: VX016476.D
 Acq: 28 May 2020 11:44

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0694DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.0	48.6	145.8
145	33.8	16.6	49.8

