

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019896.D
 Acq On : 11 Dec 2020 23:35
 Operator : JC/MD
 Sample : L4996-20
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20201208

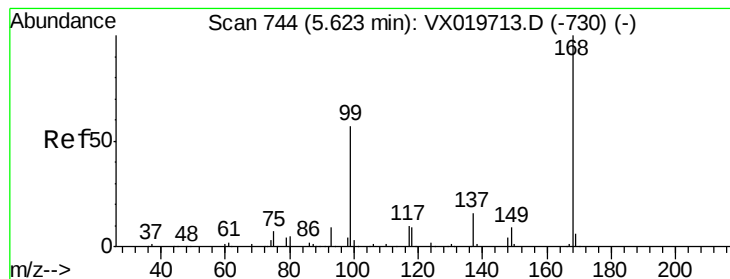
Quant Time: Dec 12 02:09:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	314364	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	524417	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	481384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	209178	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	199846	48.37	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.74%	
35) Dibromofluoromethane		5.46	113	160998	47.50	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.00%	
50) Toluene-d8		8.70	98	638557	49.35	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.70%	
62) 4-Bromofluorobenzene		11.12	95	225080	45.70	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	793	0.276	ug/l	88
5) Bromomethane	1.64	94	547	0.462	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	2.37	101	687827	241.431	ug/l	99
11) Tert butyl alcohol	3.00	59	1138	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	4838	1.680	ug/l #	77
13) Acrolein	2.28	56	146	0.320	ug/l #	1
16) Acetone	2.42	43	1285	0.827	ug/l	98
20) Methylene Chloride	2.84	84	396	Below Cal	#	88
27) cis-1,2-Dichloroethene	4.56	96	3574	0.909	ug/l	93
31) Cyclohexane	5.63	56	6156	1.198	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	23597	4.980	ug/l #	48
38) Carbon Tetrachloride	5.63	117	30155	6.498	ug/l #	17
39) Methylcyclohexane	7.18	83	1148	0.206	ug/l #	1
42) 1,2-Dichloroethane	6.16	62	1247	0.252	ug/l	78
44) Trichloroethene	7.18	130	94258	24.817	ug/l	96
45) 1,2-Dichloropropane	7.49	63	754	0.208	ug/l	97
49) 1,4-Dioxane	7.71	88	516	5.568	ug/l #	92
51) 4-Methyl-2-Pentanone	8.69	43	2902	0.611	ug/l #	1
60) Dibromochloromethane	9.32	129	36944	9.966	ug/l #	11
64) Tetrachloroethene	9.32	164	38930	12.059	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	108968	23.227	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108968	67.144	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019896.D

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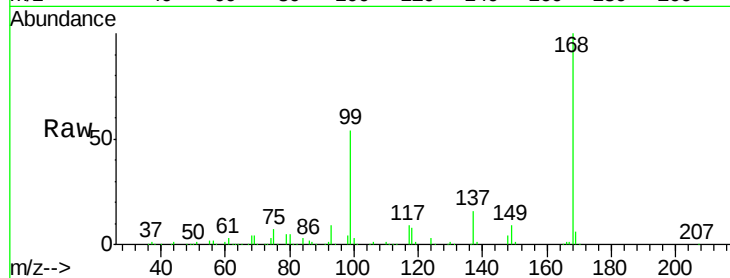
RE134D4-20201208

Tgt Ion:168 Resp: 314364

Ion Ratio Lower Upper

168 100

99 54.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

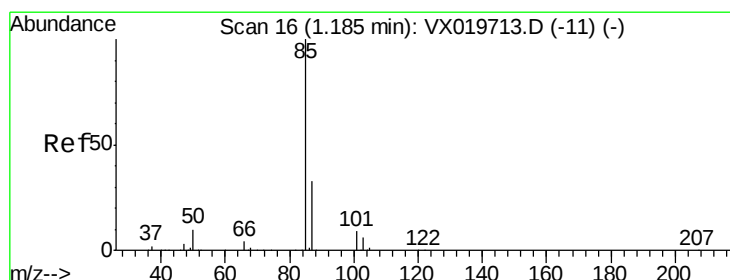
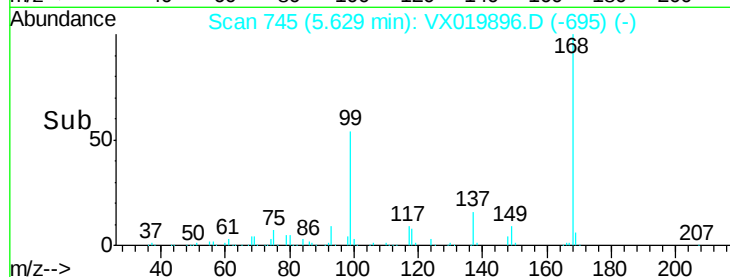
5.63

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.276 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019896.D

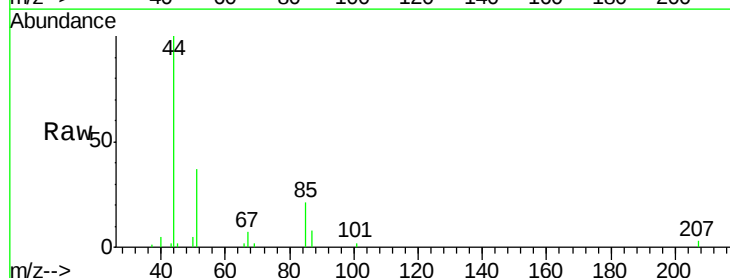
Acq: 11 Dec 2020 23:35

Tgt Ion: 85 Resp: 793

Ion Ratio Lower Upper

85 100

87 39.3 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

800

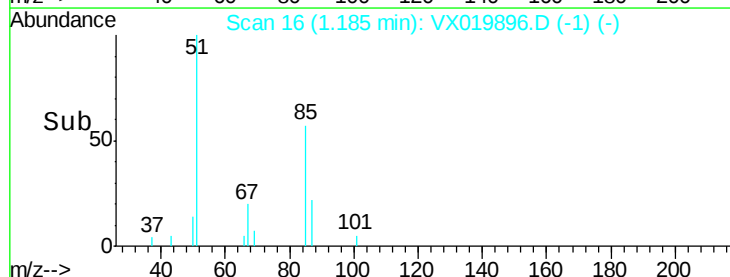
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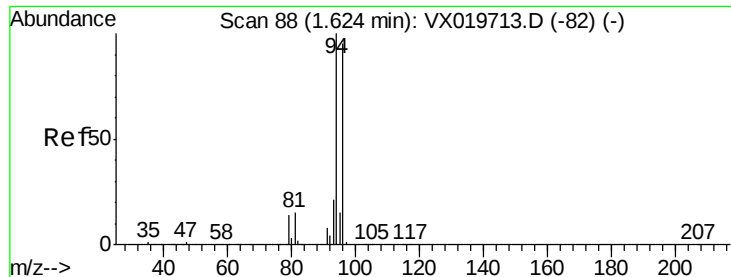
400

200

0

Time-->





#5

Bromomethane

Concen: 0.462 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

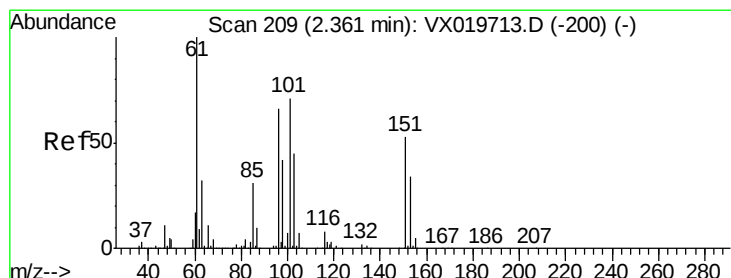
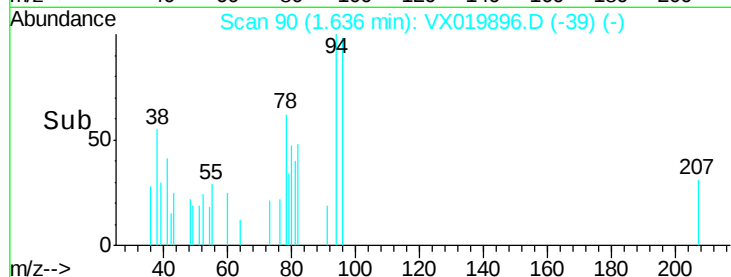
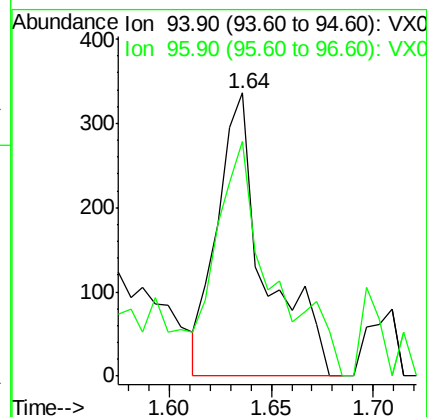
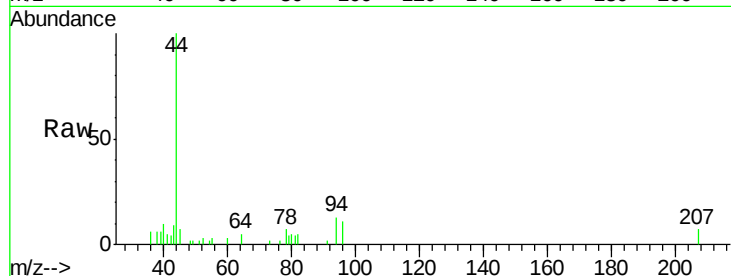
RE134D4-20201208

Tgt Ion: 94 Resp: 547

Ion Ratio Lower Upper

94 100

96 82.7 76.4 114.6



#9

1,1,2-Trichlorotrifluoroethane

Concen: 241.431 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

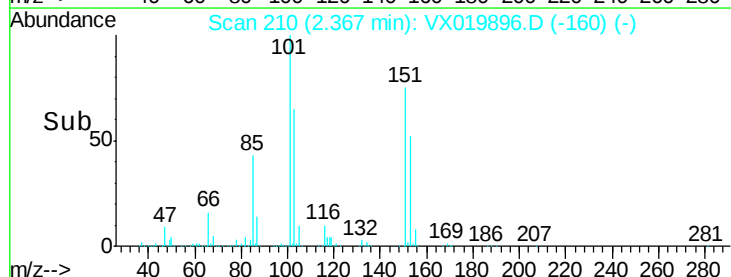
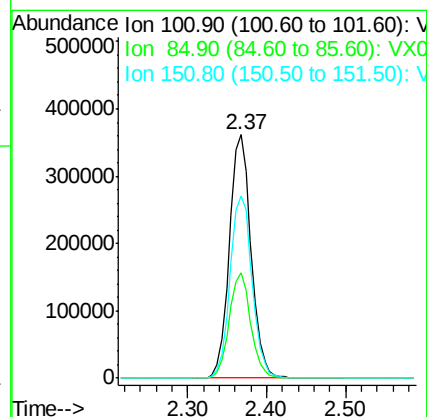
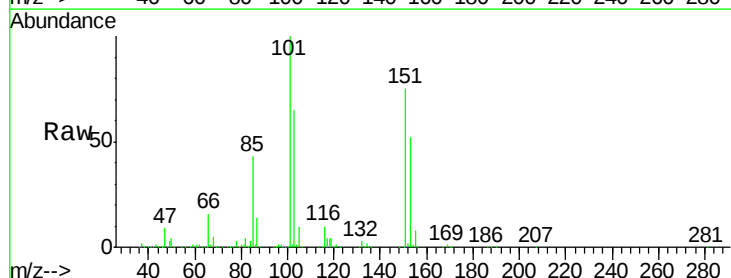
Tgt Ion: 101 Resp: 687827

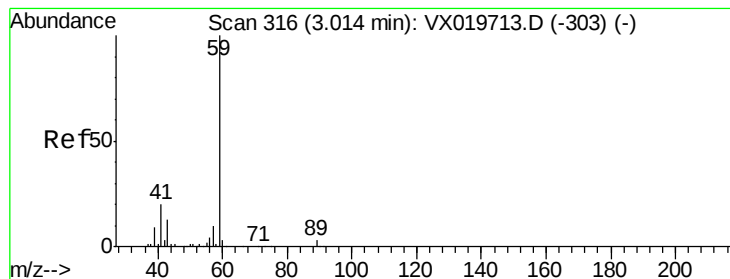
Ion Ratio Lower Upper

101 100

85 42.9 34.9 52.3

151 76.5 61.4 92.2



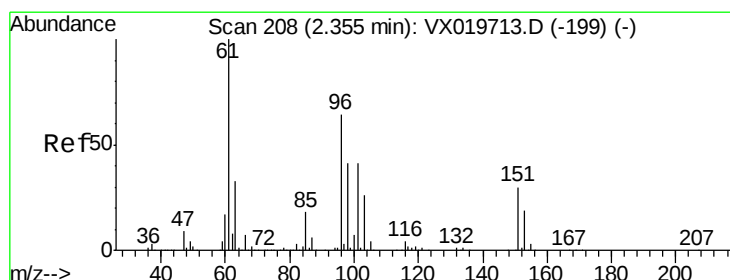
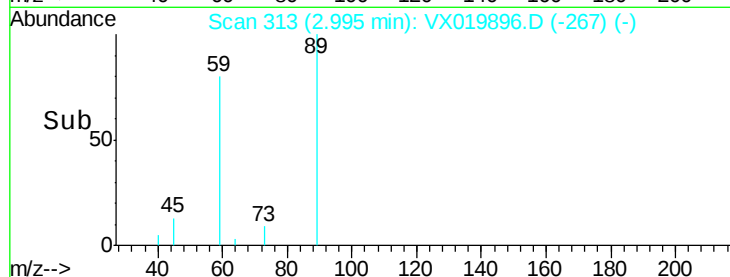
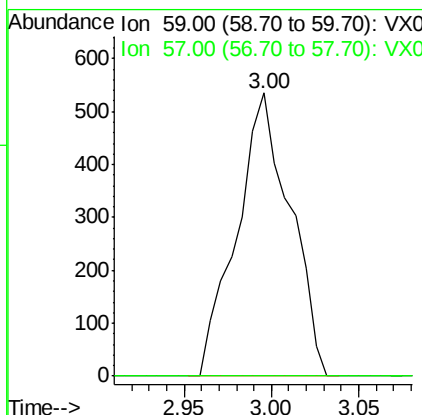
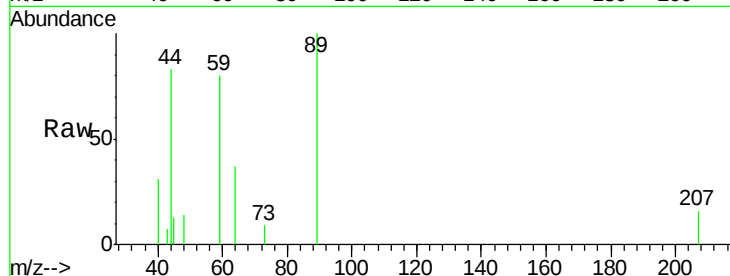


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20201208

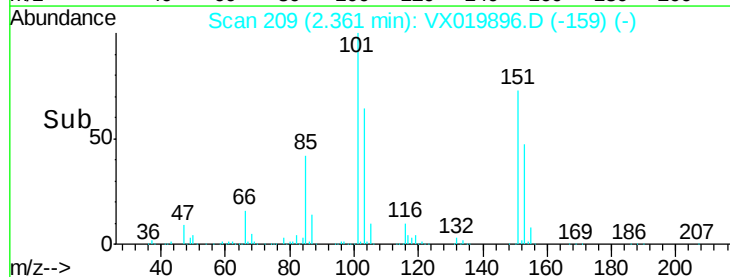
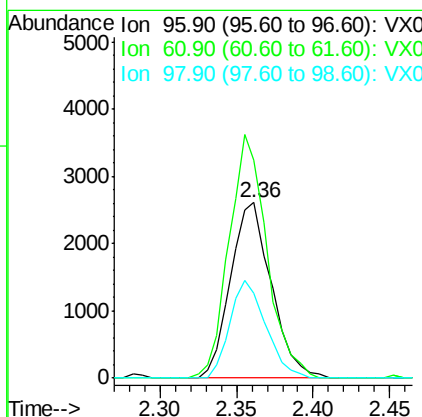
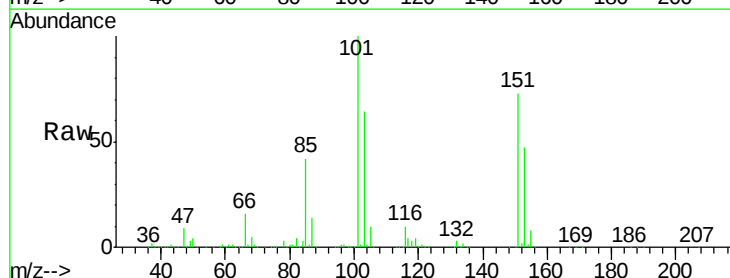
Tgt Ion: 59 Resp: 1138
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

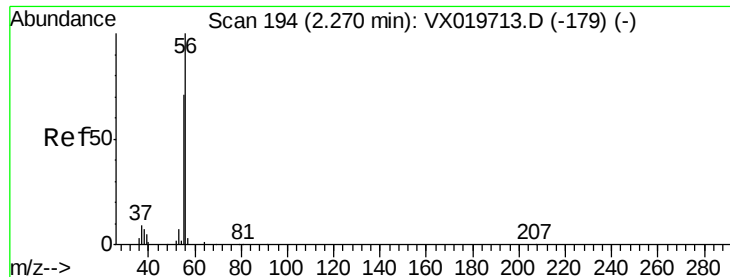


#12

1,1-Dichloroethene
Concen: 1.680 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

Tgt Ion: 96 Resp: 4838
Ion Ratio Lower Upper
96 100
61 124.7 124.6 187.0
98 48.2 50.6 76.0#





#13

Acrolein

Concen: 0.320 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

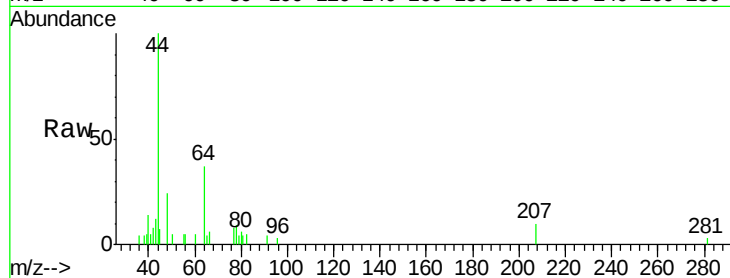
RE134D4-20201208

Tgt Ion: 56 Resp: 146

Ion Ratio Lower Upper

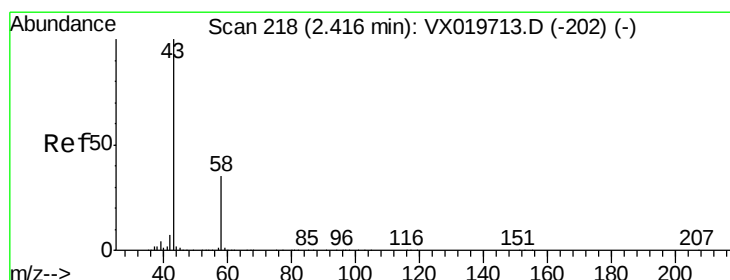
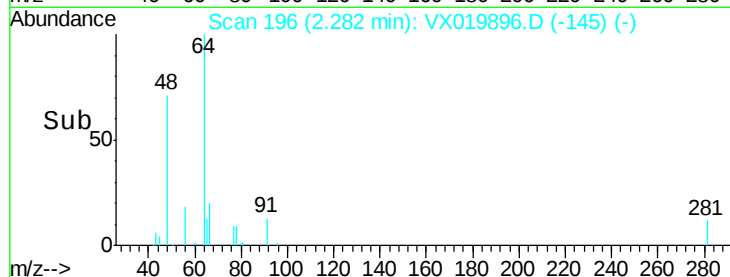
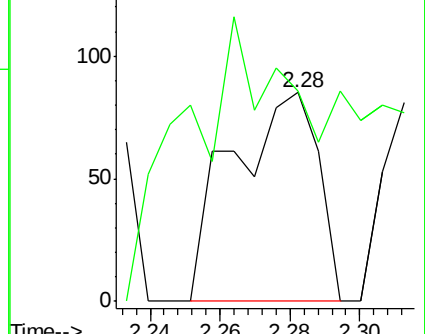
56 100

55 175.3 56.4 84.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.827 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019896.D

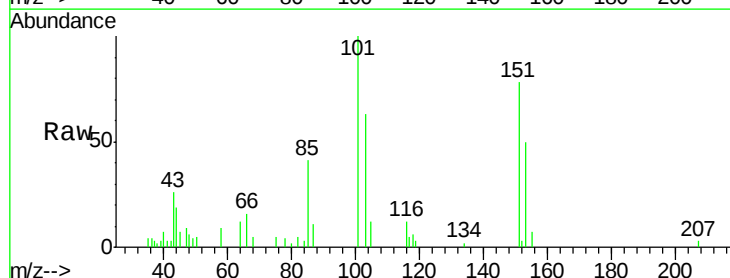
Acq: 11 Dec 2020 23:35

Tgt Ion: 43 Resp: 1285

Ion Ratio Lower Upper

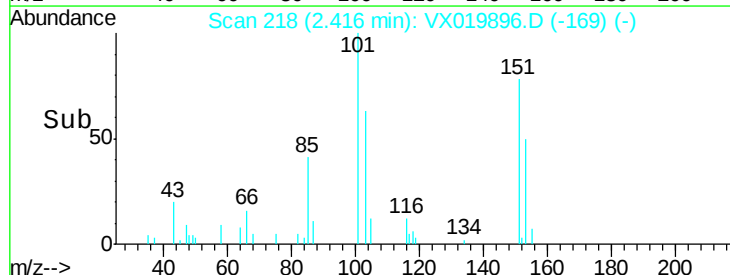
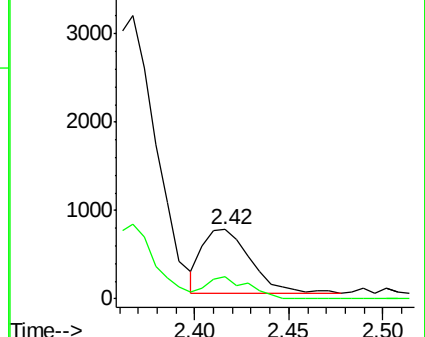
43 100

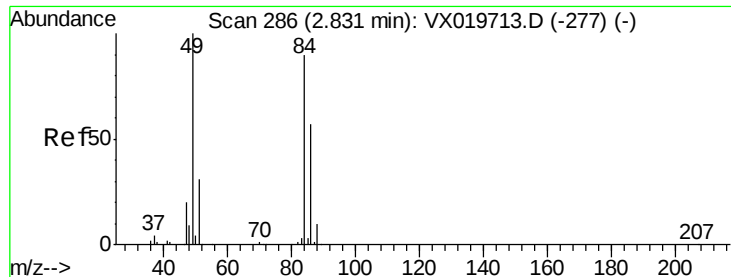
58 35.9 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

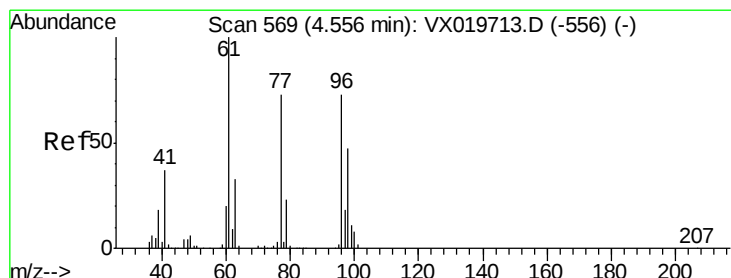
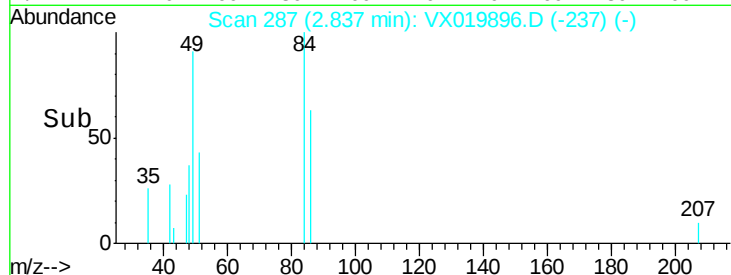
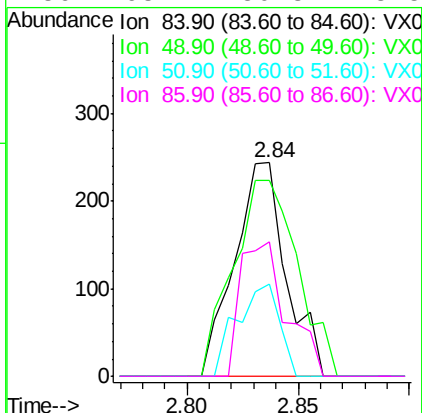
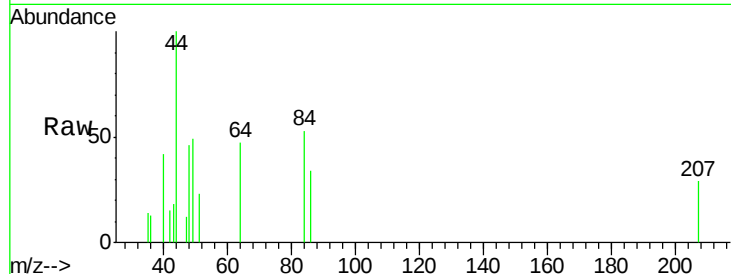




#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

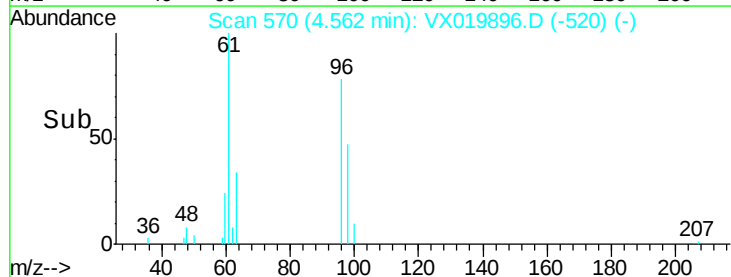
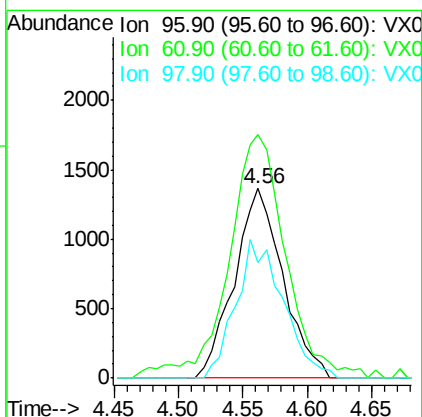
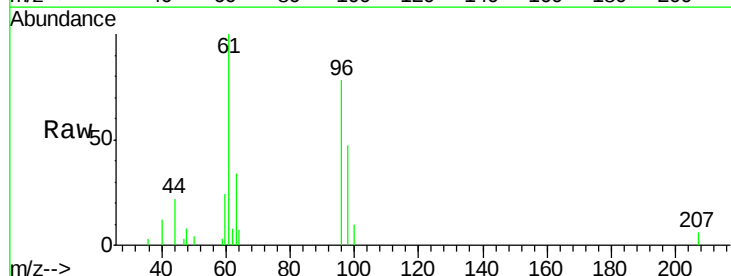
Instrument :
MSVOA_X
ClientSampleId :
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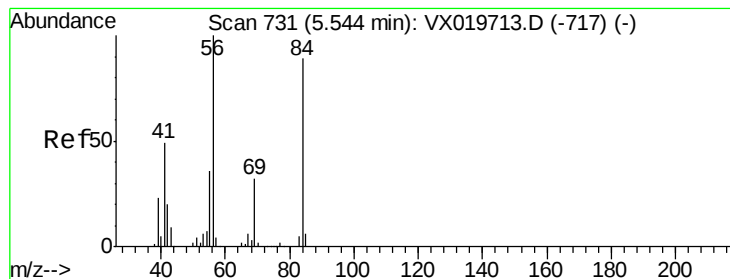
Tgt Ion: 84 Resp: 396
Ion Ratio Lower Upper
84 100
49 91.4 88.6 132.8
51 43.0 27.0 40.6#
86 63.1 50.3 75.5



#27
cis-1,2-Dichloroethene
Concen: 0.909 ug/l
RT: 4.56 min Scan# 570
Delta R.T. 0.01 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

Tgt Ion: 96 Resp: 3574
Ion Ratio Lower Upper
96 100
61 151.4 0.0 285.6
98 70.8 0.0 129.6





#31

Cyclohexane

Concen: 1.198 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20201208

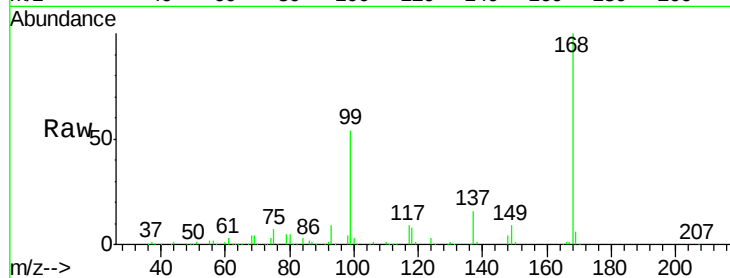
Tgt Ion: 56 Resp: 6156

Ion Ratio Lower Upper

56 100

69 184.7 25.3 37.9#

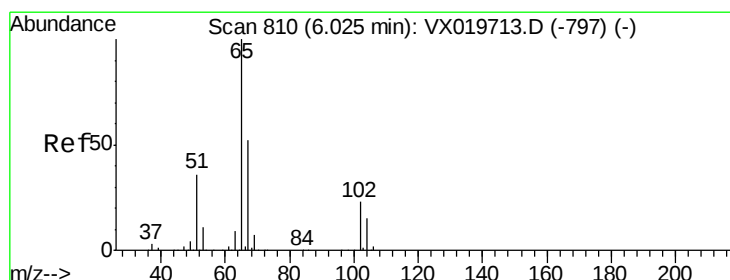
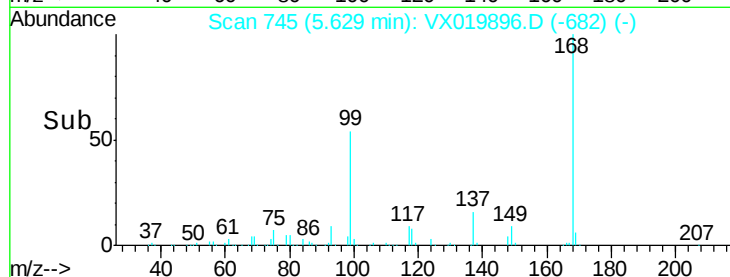
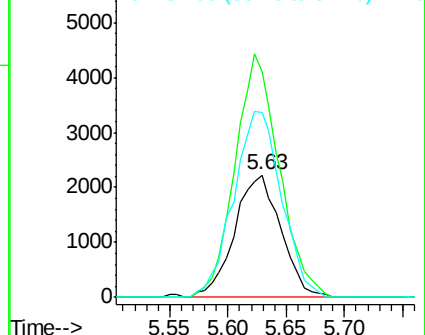
84 150.7 71.4 107.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.369 ug/l

RT: 6.03 min Scan# 810

Delta R.T. 0.00 min

Lab File: VX019896.D

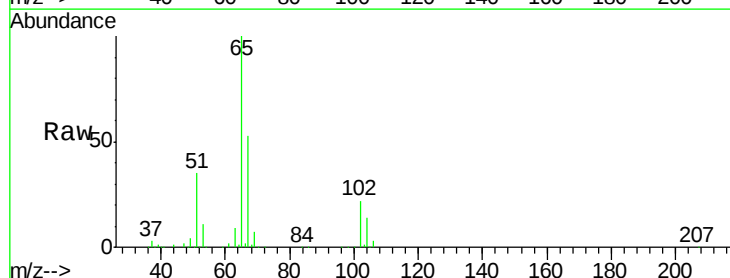
Acq: 11 Dec 2020 23:35

Tgt Ion: 65 Resp: 199846

Ion Ratio Lower Upper

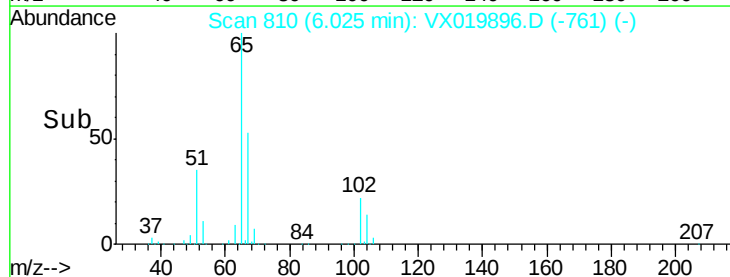
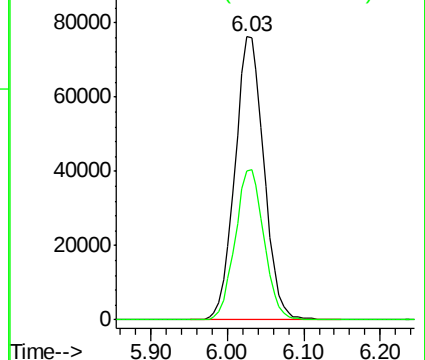
65 100

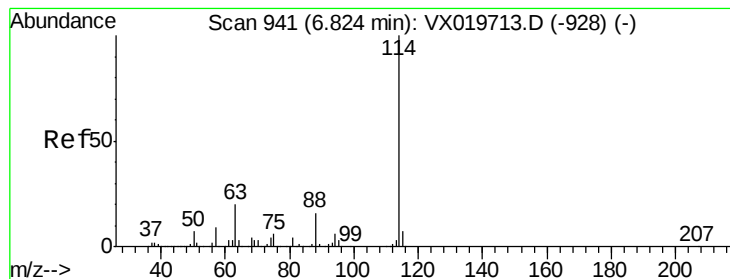
67 53.1 0.0 105.4



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. 0.01 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Instrument :

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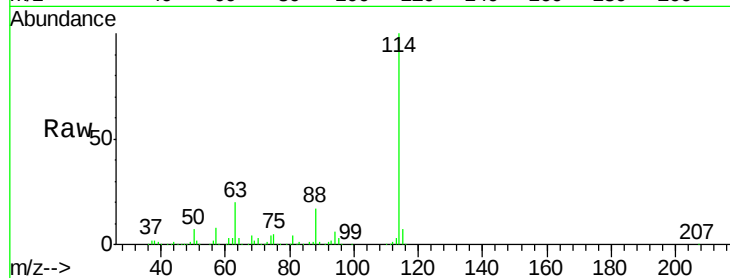
Tgt Ion:114 Resp: 524417

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

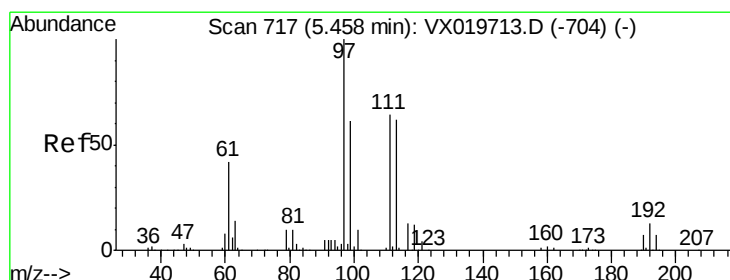
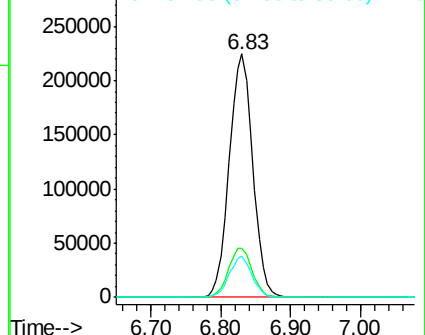
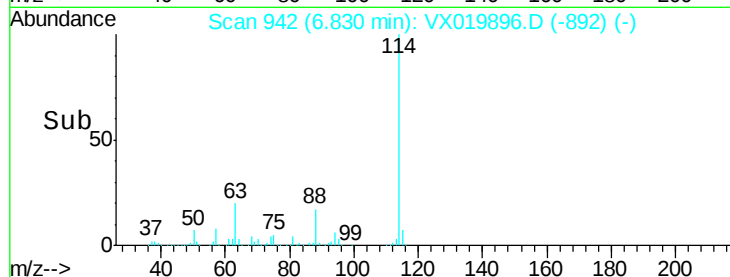
88 16.7 0.0 32.8



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: 47.503 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

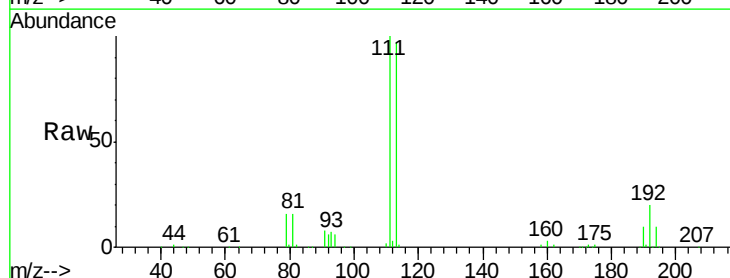
Tgt Ion:113 Resp: 160998

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

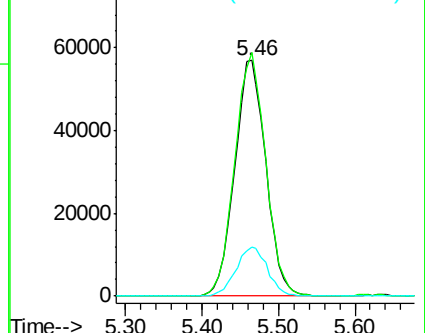
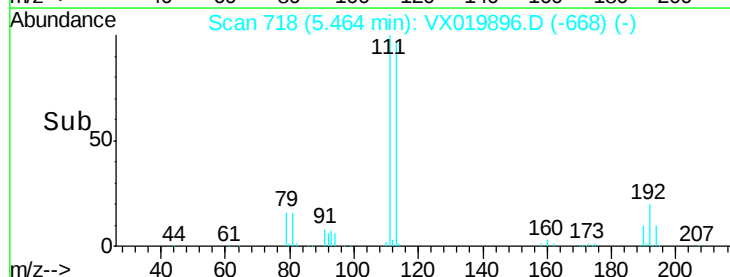
192 20.9 16.7 25.1

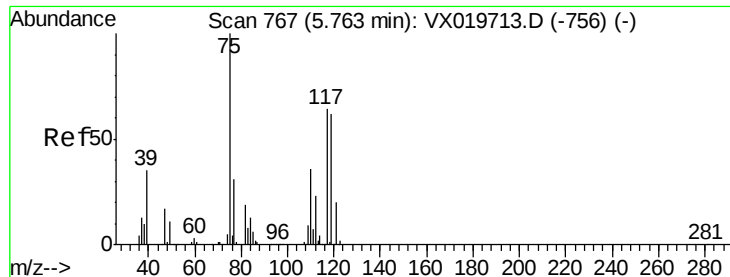


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

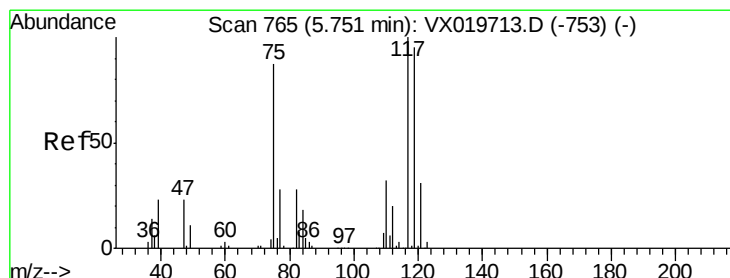
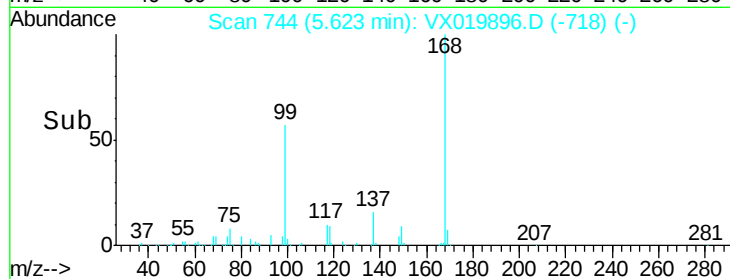
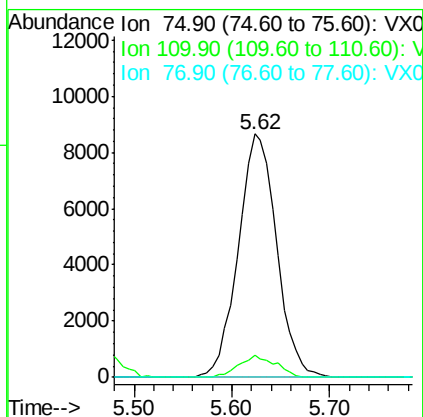
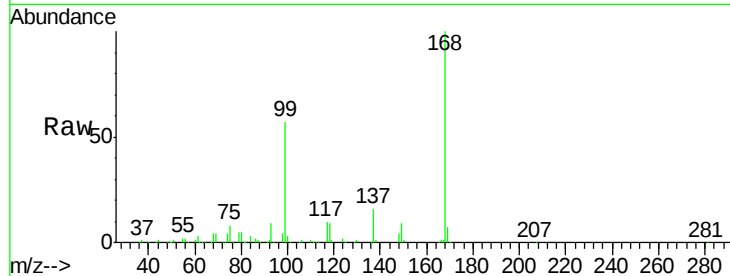




#36
 1,1-Dichloropropene
 Concen: 4.980 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019896.D
 Acq: 11 Dec 2020 23:35

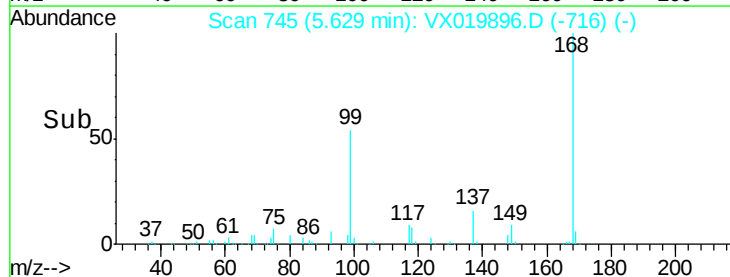
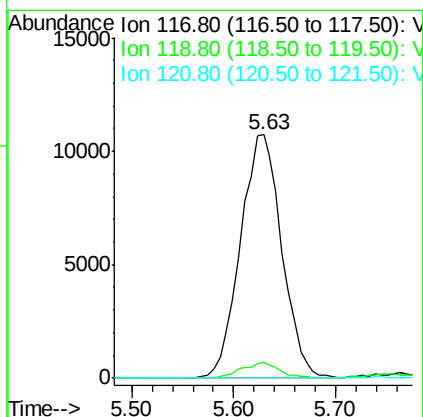
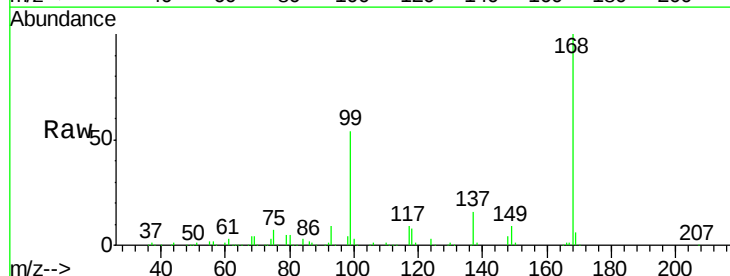
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20201208

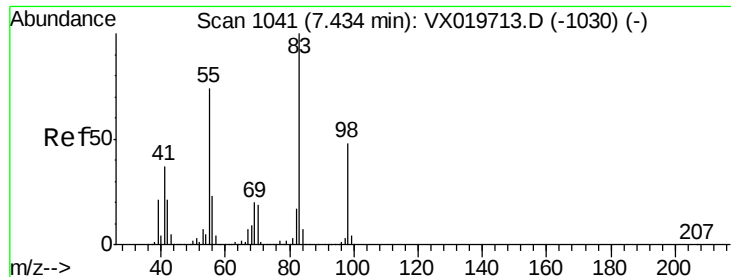
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.498 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019896.D
 Acq: 11 Dec 2020 23:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.2	114.2#
121	0.0	24.8	37.2#

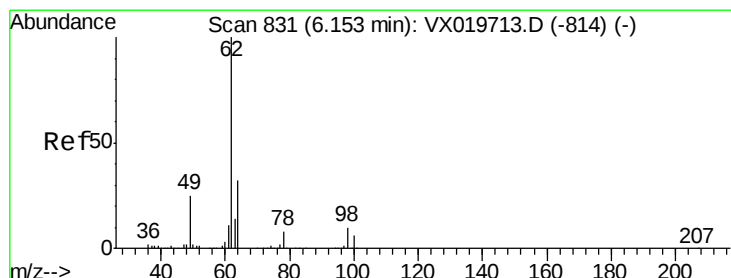
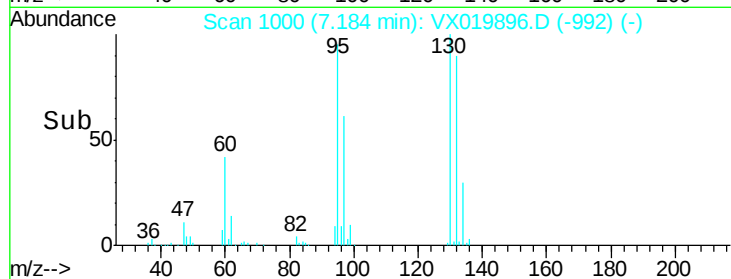
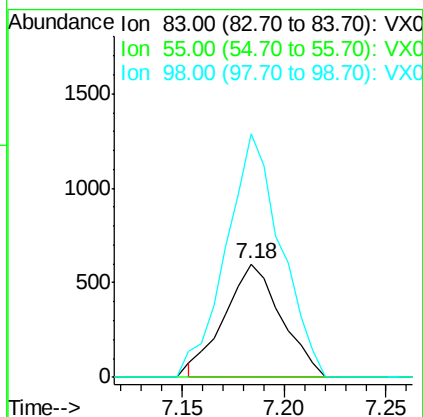
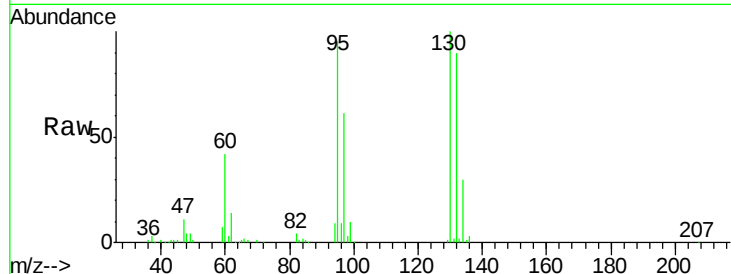




#39
Methylcyclohexane
Concen: 0.206 ug/l
RT: 7.18 min Scan# 1000
Delta R.T. -0.25 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

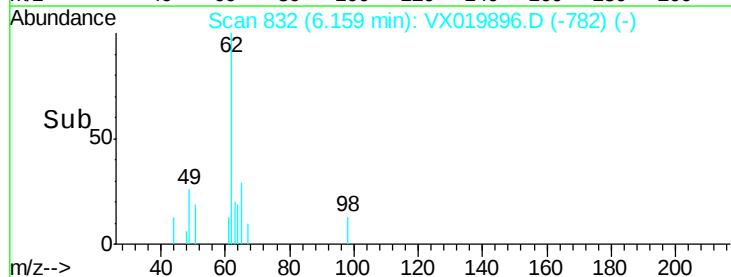
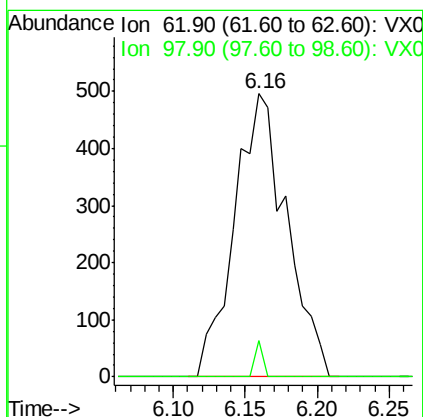
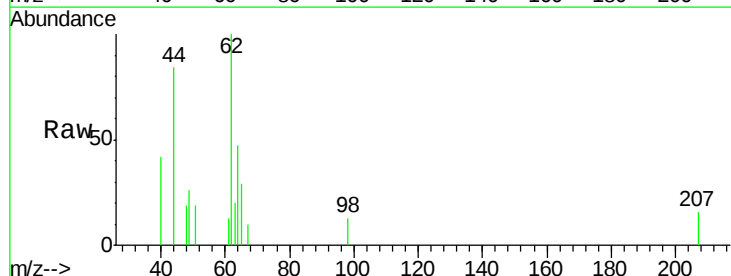
Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20201208

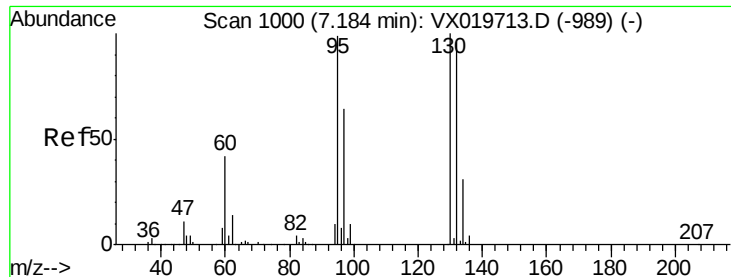
Tgt Ion: 83 Resp: 1148
Ion Ratio Lower Upper
83 100
55 0.0 58.9 88.3#
98 215.4 38.1 57.1#



#42
1,2-Dichloroethane
Concen: 0.252 ug/l
RT: 6.16 min Scan# 832
Delta R.T. 0.01 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

Tgt Ion: 62 Resp: 1247
Ion Ratio Lower Upper
62 100
98 1.8 0.0 20.2





#44

Trichloroethene

Concen: 24.817 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

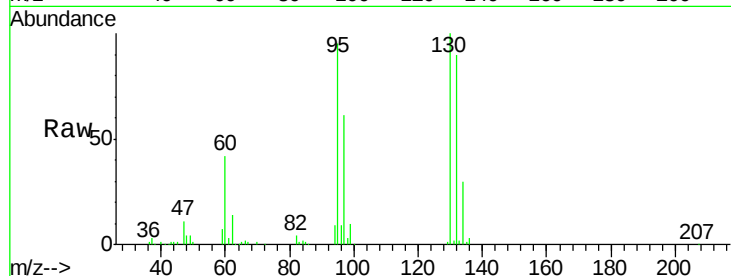
RE134D4-20201208

Tgt Ion:130 Resp: 94258

Ion Ratio Lower Upper

130 100

95 94.6 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

50000

40000

30000

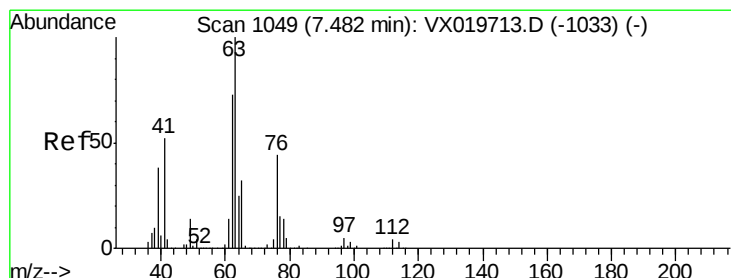
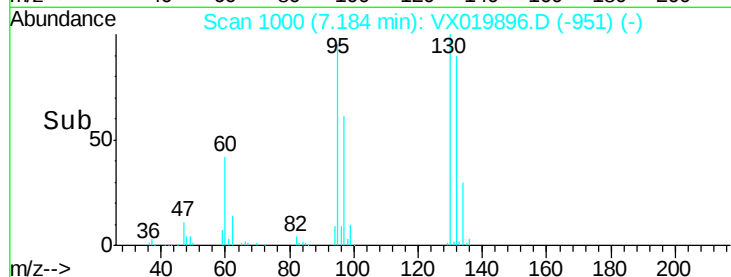
20000

10000

0

Time-->

7.10 7.20 7.30



#45

1,2-Dichloropropane

Concen: 0.208 ug/l

RT: 7.49 min Scan# 1050

Delta R.T. 0.01 min

Lab File: VX019896.D

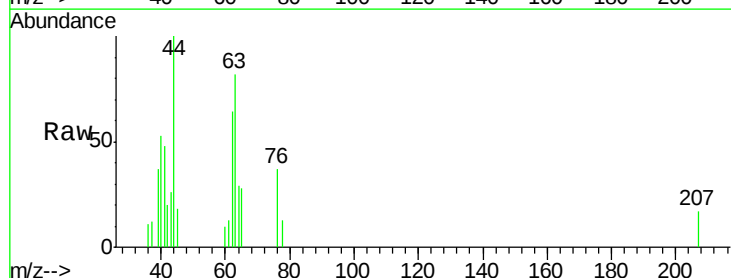
Acq: 11 Dec 2020 23:35

Tgt Ion: 63 Resp: 754

Ion Ratio Lower Upper

63 100

65 33.7 25.7 38.5



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

7.49

400

300

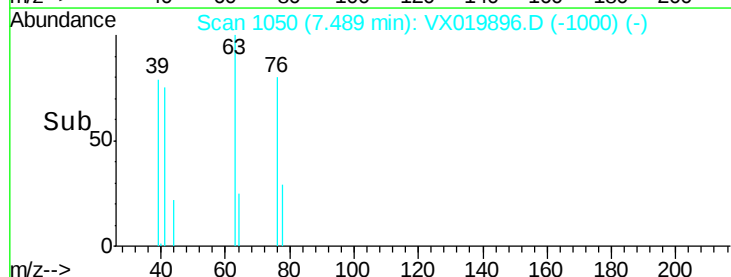
200

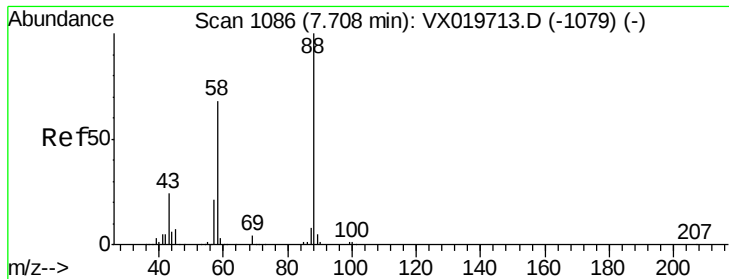
100

0

Time-->

7.45 7.50

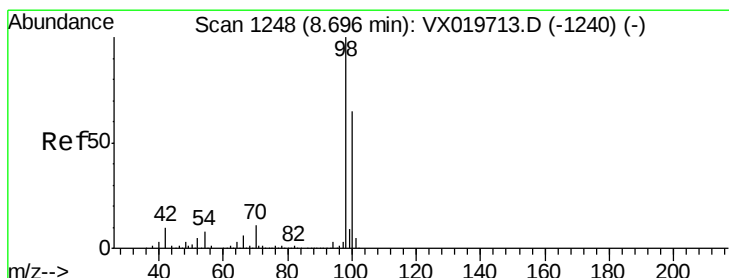
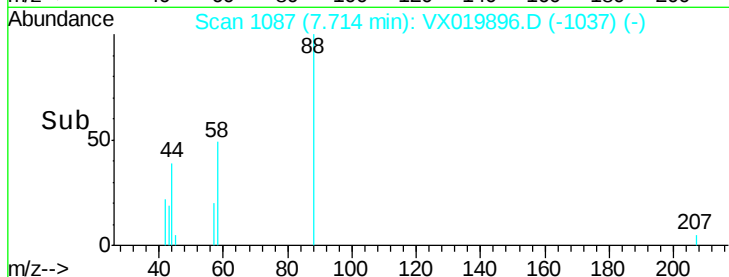
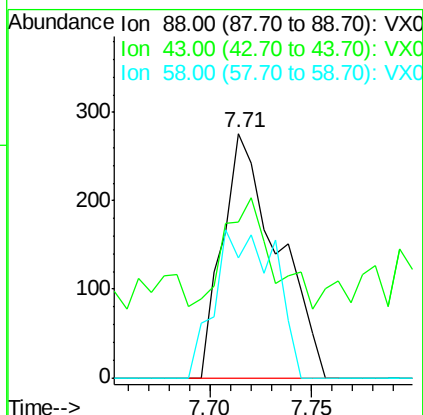
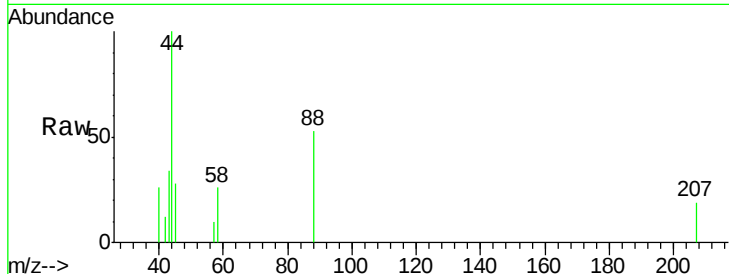




#49
1,4-Dioxane
Concen: 5.568 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. 0.01 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

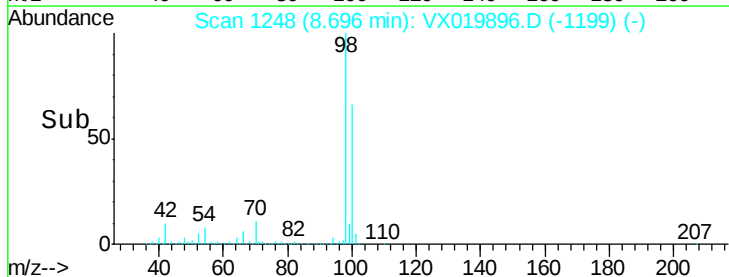
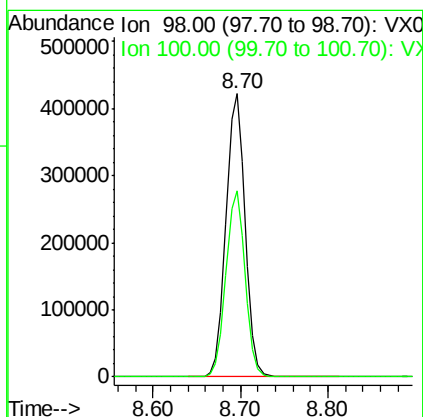
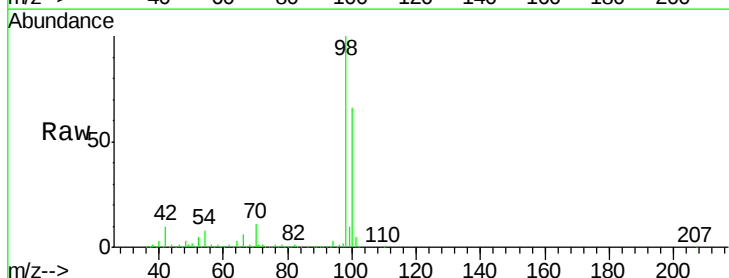
Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20201208

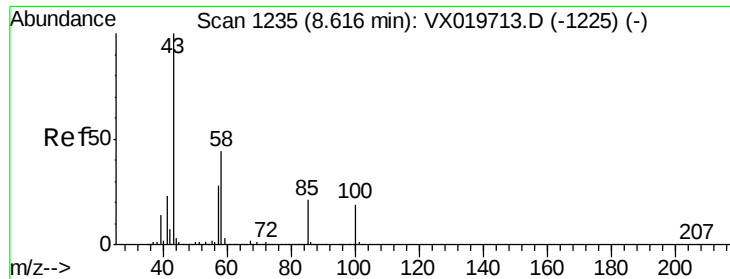
Tgt Ion: 88 Resp: 516
Ion Ratio Lower Upper
88 100
43 38.8 23.2 34.8#
58 66.3 55.0 82.4



#50
Toluene-d8
Concen: 49.351 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

Tgt Ion: 98 Resp: 638557
Ion Ratio Lower Upper
98 100
100 65.6 51.9 77.9

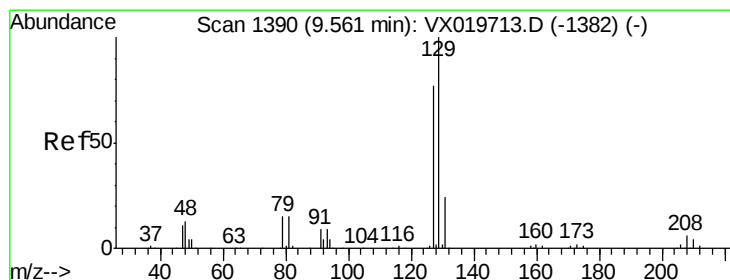
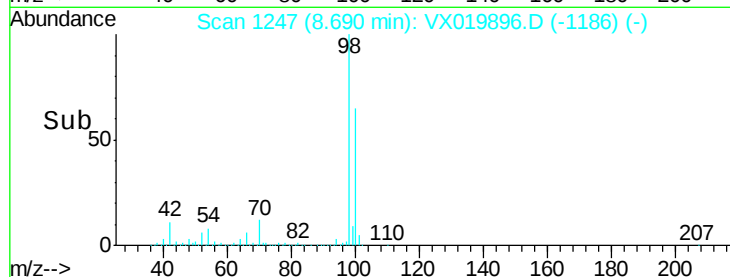
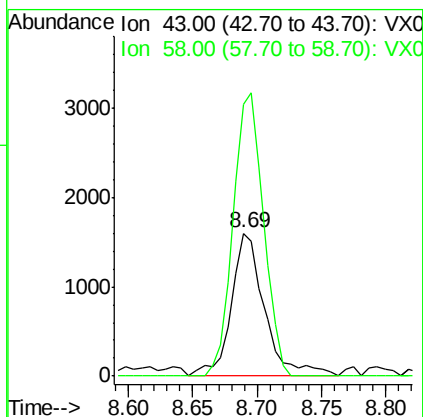
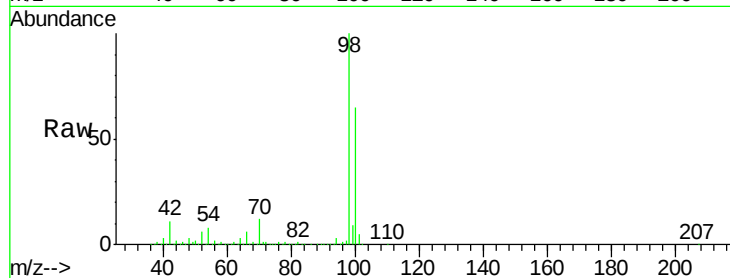




#51
 4-Methyl-2-Pentanone
 Concen: 0.611 ug/l
 RT: 8.69 min Scan# 1247
 Delta R.T. 0.07 min
 Lab File: VX019896.D
 Acq: 11 Dec 2020 23:35

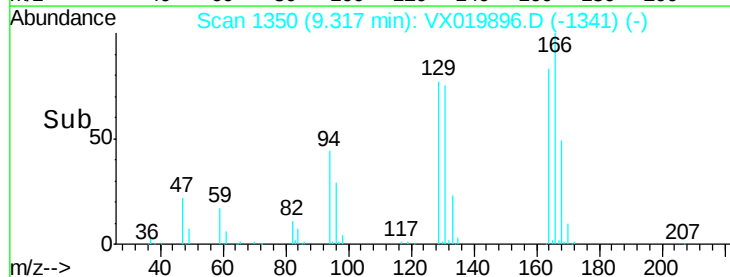
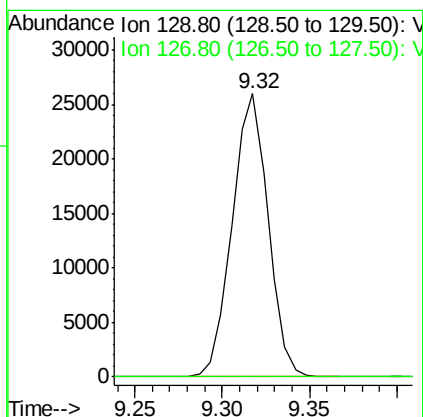
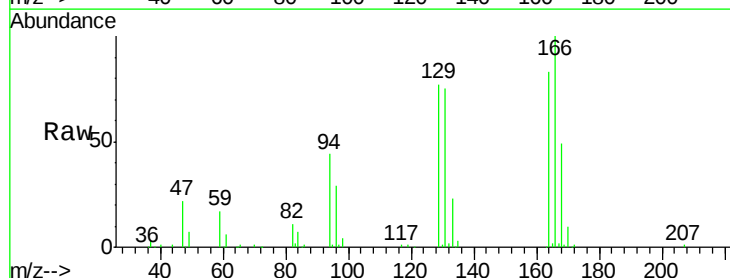
Instrument :
 MSVOA_X
 ClientSampleId :
 RE134D4-20201208

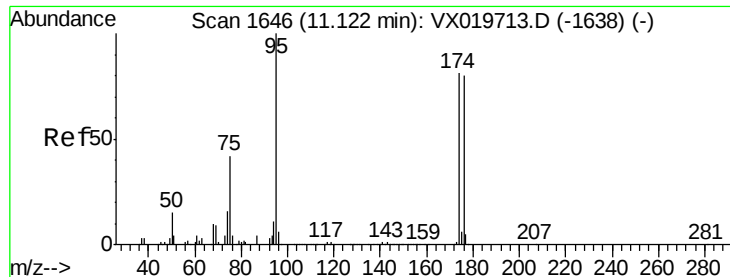
Tgt Ion: 43 Resp: 2902
 Ion Ratio Lower Upper
 43 100
 58 179.0 35.4 53.0#



#60
 Dibromochloromethane
 Concen: 9.966 ug/l
 RT: 9.32 min Scan# 1350
 Delta R.T. -0.24 min
 Lab File: VX019896.D
 Acq: 11 Dec 2020 23:35

Tgt Ion: 129 Resp: 36944
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 45.703 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

RE134D4-20201208

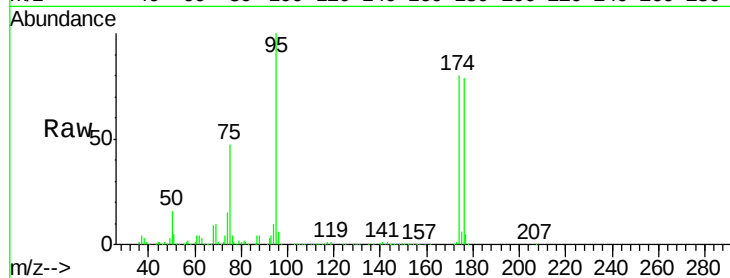
Tgt Ion: 95 Resp: 225080

Ion Ratio Lower Upper

95 100

174 78.6 0.0 154.6

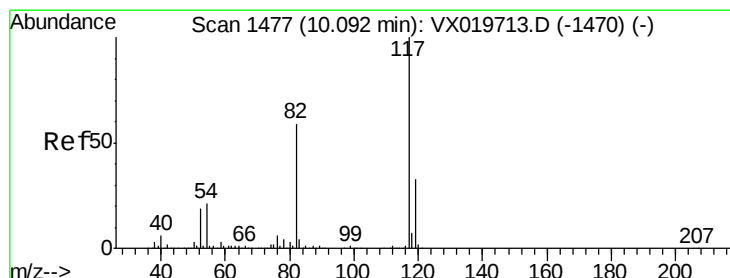
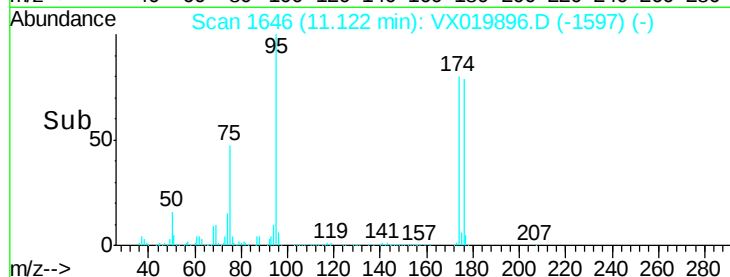
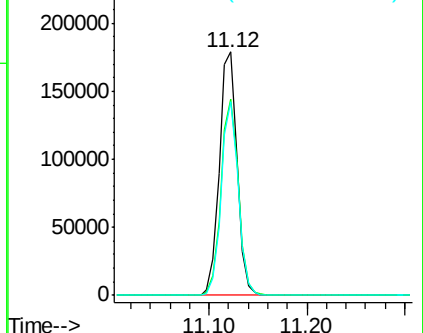
176 76.2 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.09 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

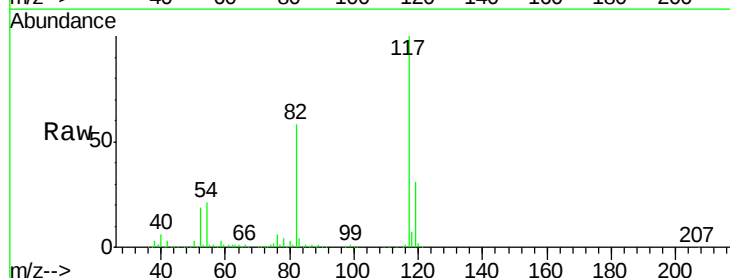
Tgt Ion: 117 Resp: 481384

Ion Ratio Lower Upper

117 100

82 57.7 47.4 71.2

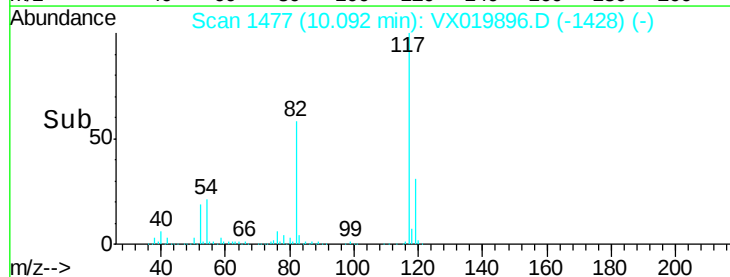
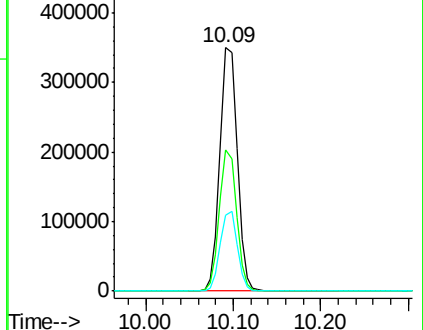
119 31.3 26.6 39.8

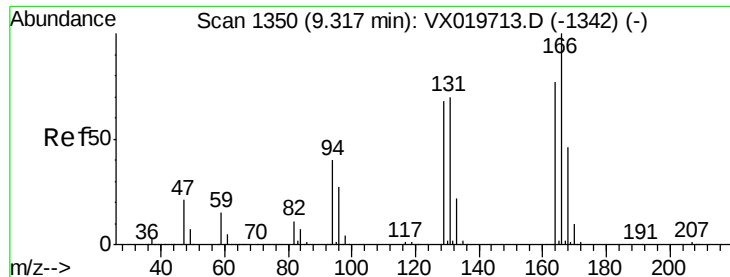


Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)

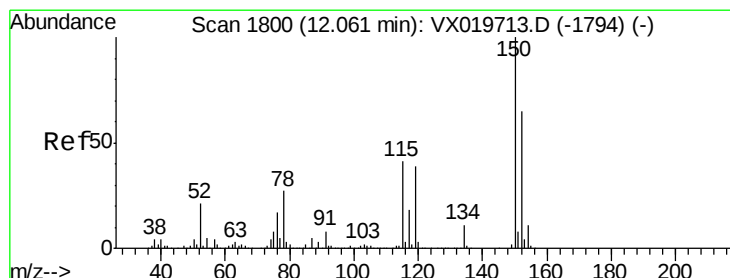
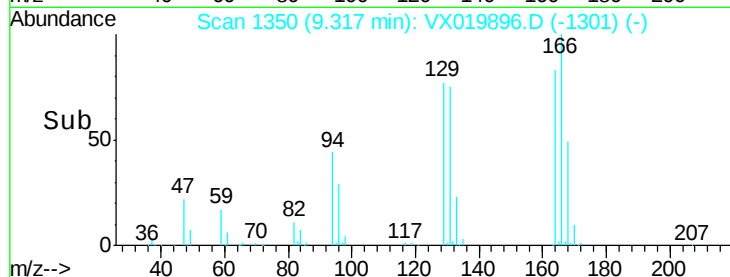
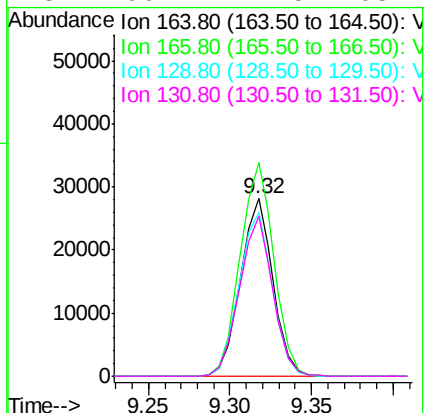
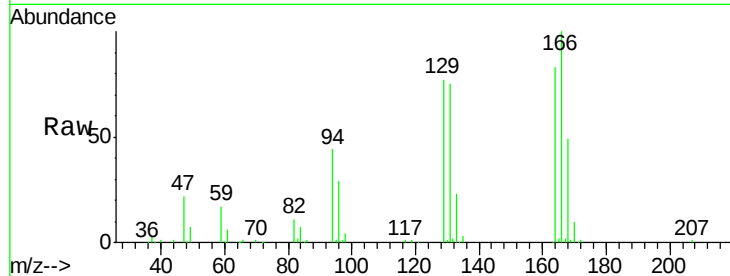




#64
Tetrachloroethene
Concen: 12.059 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

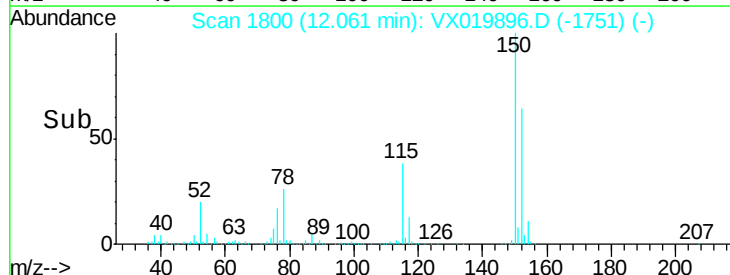
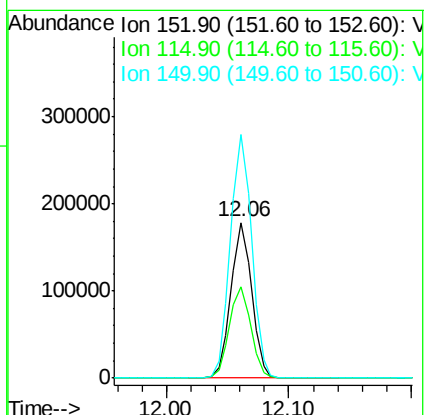
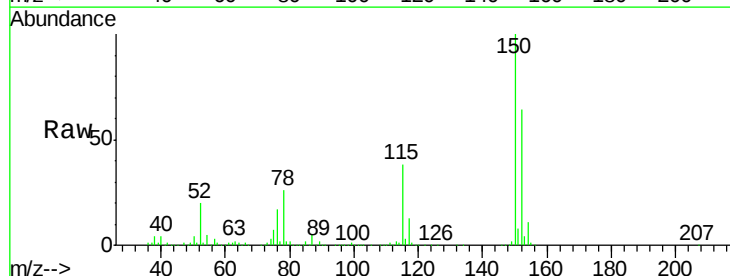
Instrument :
MSVOA_X
ClientSampleId :
RE134D4-20201208

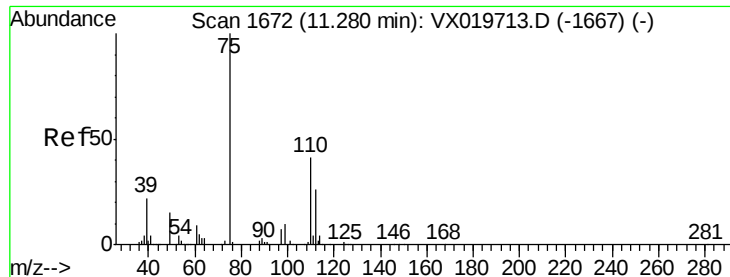
Tgt Ion:164 Resp: 38930
Ion Ratio Lower Upper
164 100
166 120.4 103.4 155.2
129 92.3 70.8 106.2
131 90.2 72.5 108.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019896.D
Acq: 11 Dec 2020 23:35

Tgt Ion:152 Resp: 209178
Ion Ratio Lower Upper
152 100
115 60.5 41.1 123.3
150 160.7 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.227 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Instrument :

MSVOA_X

ClientSampleId :

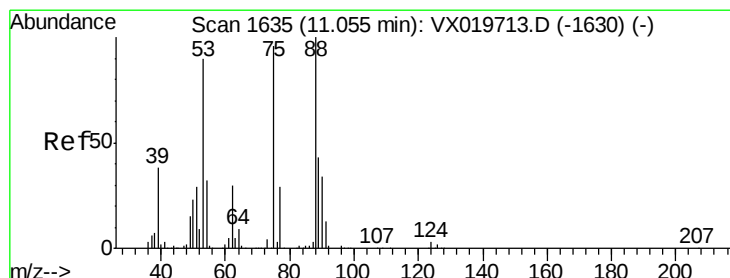
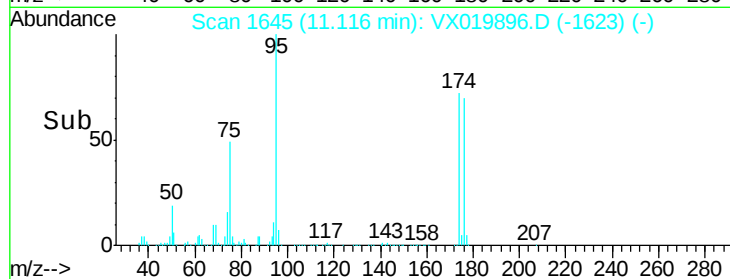
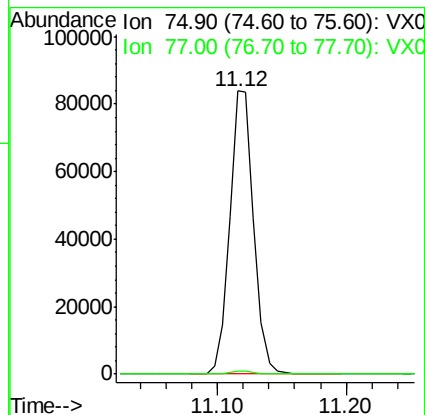
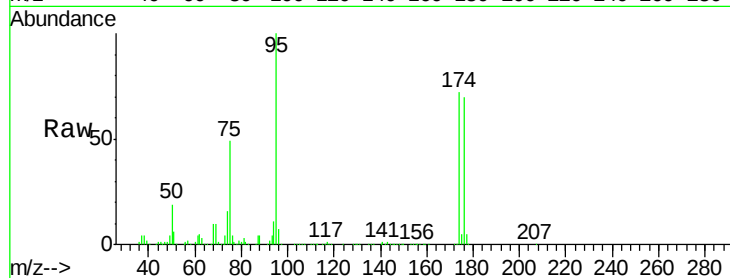
RE134D4-20201208

Tgt Ion: 75 Resp: 108968

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.144 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019896.D

Acq: 11 Dec 2020 23:35

Tgt Ion: 75 Resp: 108968

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

