

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121120\
 Data File : VX019890.D
 Acq On : 11 Dec 2020 21:16
 Operator : JC/MD
 Sample : L4996-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D5-20201207

Quant Time: Dec 12 00:06:49 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	319637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	537853	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	496329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	210337	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	205136	48.83	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.66%
35) Dibromofluoromethane	5.46	113	166115	47.79	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.58%
50) Toluene-d8	8.70	98	651427	49.09	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.18%
62) 4-Bromofluorobenzene	11.12	95	226655	44.87	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.74%

Target Compounds

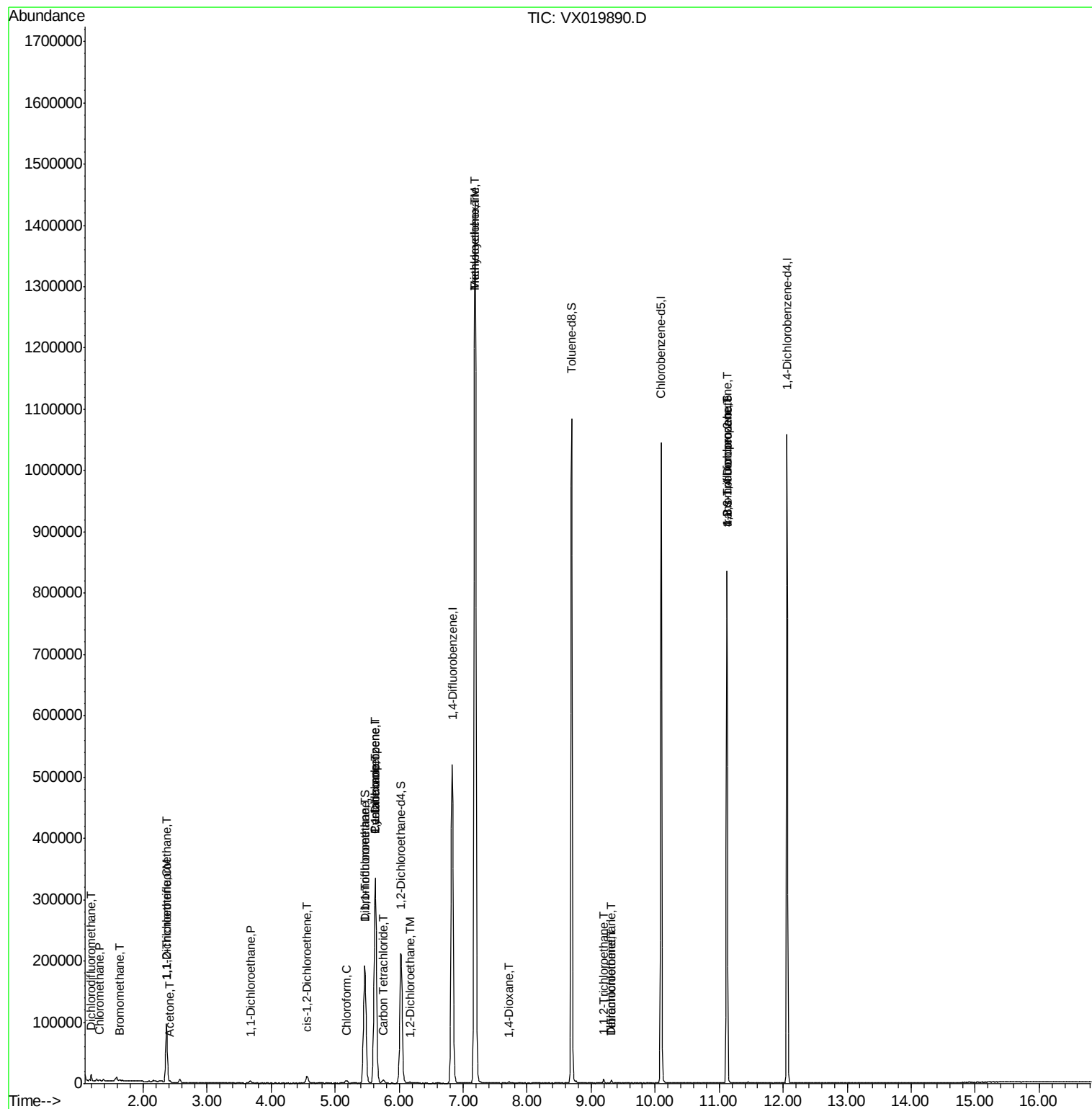
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	3336	1.140	ug/l	92
3) Chloromethane	1.31	50	1003	0.291	ug/l	93
5) Bromomethane	1.64	94	554	0.460	ug/l #	74
9) 1,1,2-Trichlorotrifluoroet	2.37	101	34023	11.745	ug/l	99
11) Tert butyl alcohol	3.01	59	579	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	7347	2.509	ug/l	98
16) Acetone	2.42	43	1087	0.688	ug/l	90
20) Methylene Chloride	2.84	84	487	Below Cal	#	84
24) 1,1-Dichloroethane	3.67	63	4092	0.679	ug/l	97
27) cis-1,2-Dichloroethene	4.56	96	7216	1.806	ug/l	94
30) Chloroform	5.17	83	5531	0.892	ug/l	97
31) Cyclohexane	5.63	56	6235	1.193	ug/l #	1
32) 1,1,1-Trichloroethane	5.46	97	1733	0.325	ug/l #	45
36) 1,1-Dichloropropene	5.62	75	24103	4.959	ug/l #	49
38) Carbon Tetrachloride	5.75	117	4483	0.942	ug/l #	96
39) Methylcyclohexane	7.19	83	6850	1.200	ug/l #	1
42) 1,2-Dichloroethane	6.17	62	1322	0.261	ug/l	90
44) Trichloroethene	7.18	130	566622	145.460	ug/l	98
49) 1,4-Dioxane	7.72	88	1859	19.558	ug/l #	96
55) 1,1,2-Trichloroethane	9.20	97	1654	0.442	ug/l	92
60) Dibromochloromethane	9.31	129	808	0.213	ug/l #	11
64) Tetrachloroethene	9.32	164	835	0.251	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	108967	23.098	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108967	66.774	ug/l #	12

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

Instrument :

MSVOA_X

ClientSampleId :

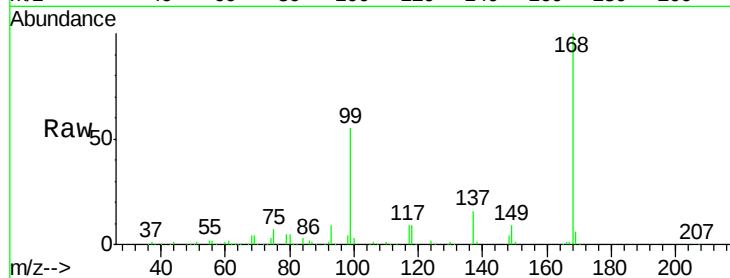
RE132D5-20201207

Tgt Ion:168 Resp: 319637

Ion Ratio Lower Upper

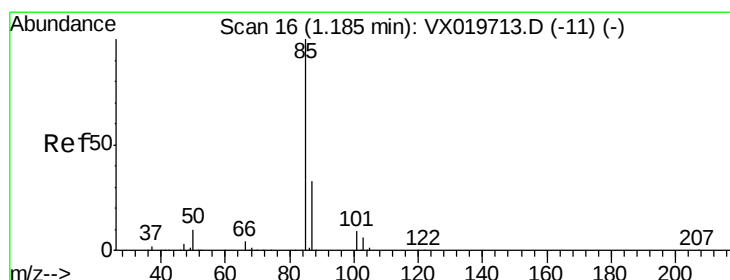
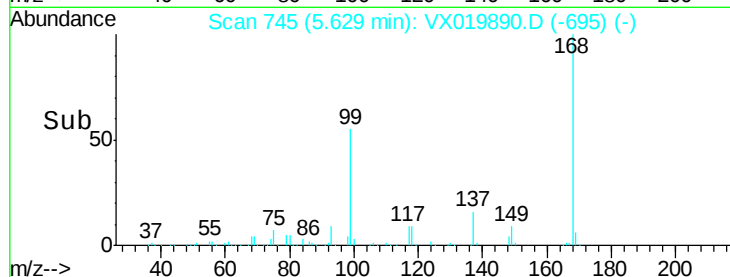
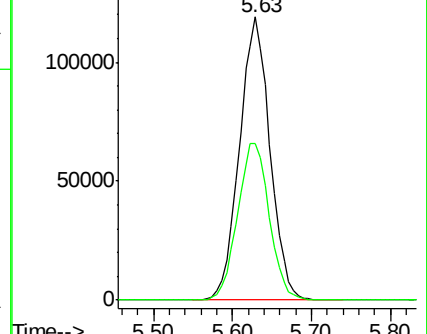
168 100

99 55.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 1.140 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019890.D

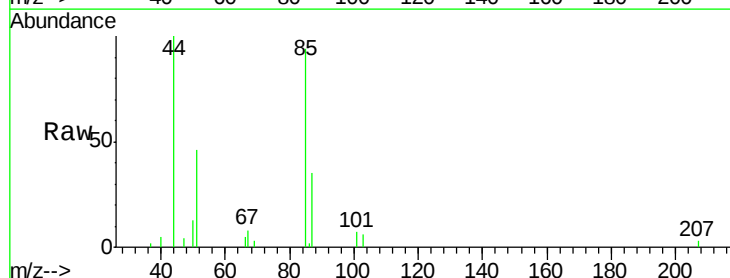
Acq: 11 Dec 2020 21:16

Tgt Ion: 85 Resp: 3336

Ion Ratio Lower Upper

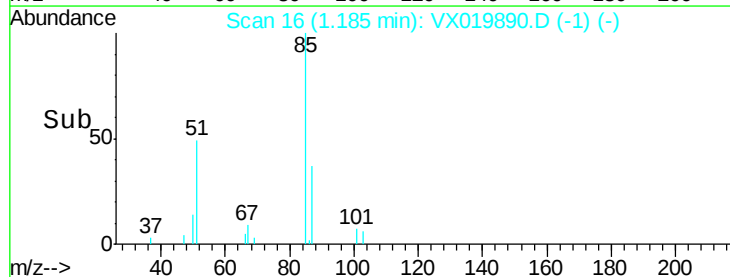
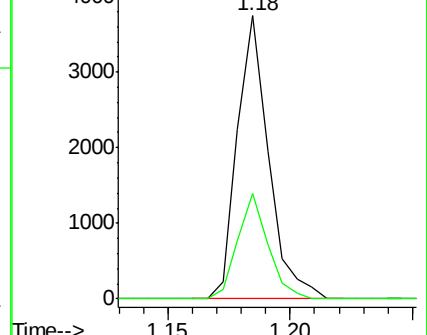
85 100

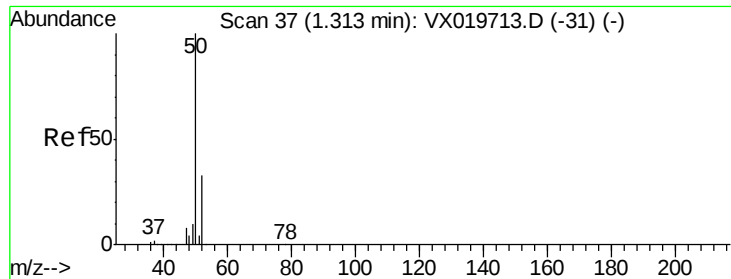
87 37.1 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.291 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

Instrument :

MSVOA_X

ClientSampleId :

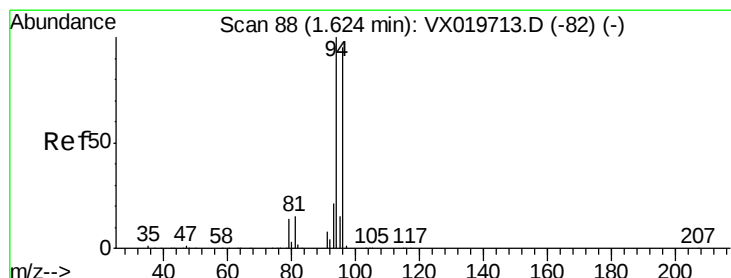
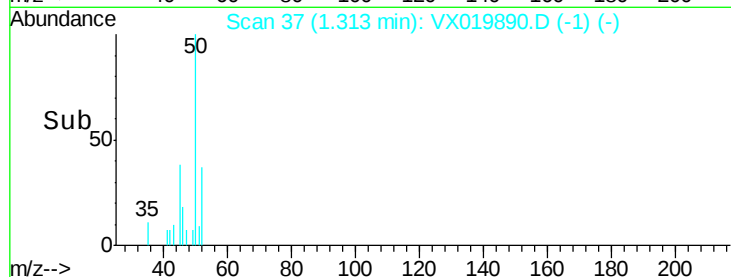
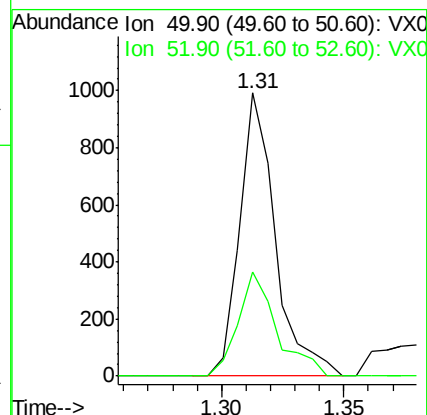
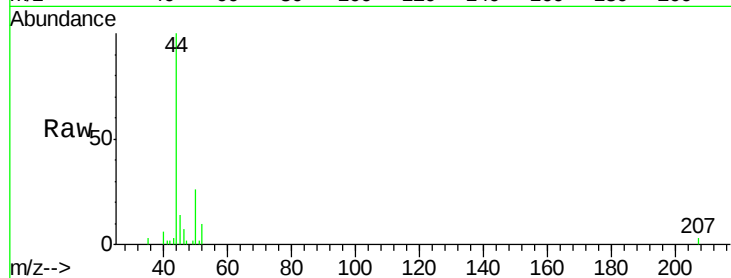
RE132D5-20201207

Tgt Ion: 50 Resp: 1003

Ion Ratio Lower Upper

50 100

52 36.9 26.4 39.6



#5

Bromomethane

Concen: 0.460 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019890.D

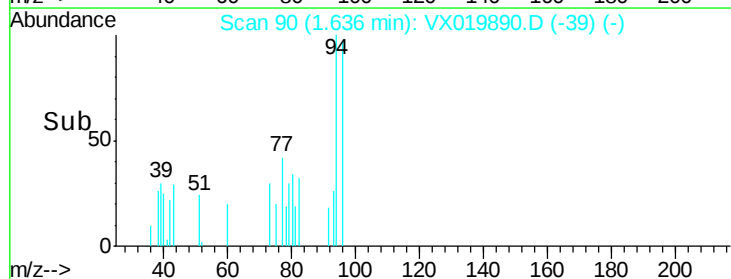
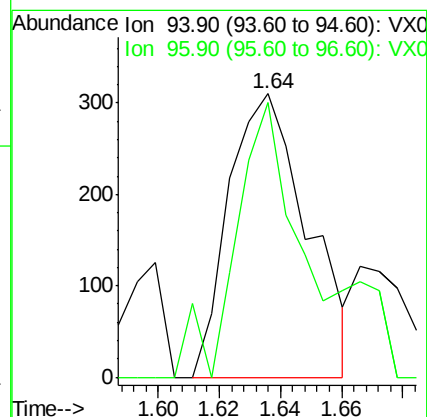
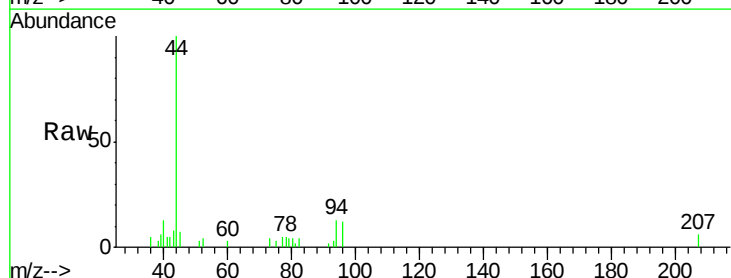
Acq: 11 Dec 2020 21:16

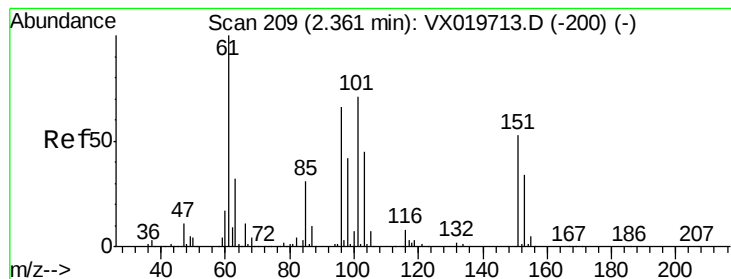
Tgt Ion: 94 Resp: 554

Ion Ratio Lower Upper

94 100

96 70.6 76.4 114.6#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.745 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20201207

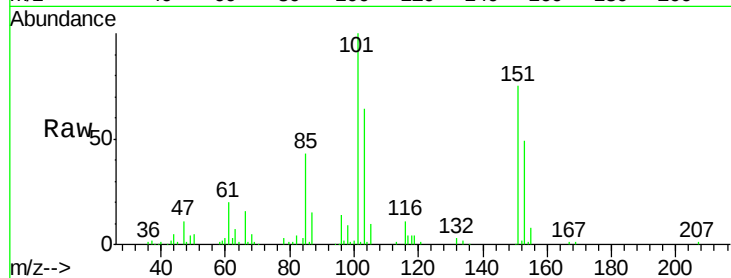
Tgt Ion:101 Resp: 34023

Ion Ratio Lower Upper

101 100

85 43.6 34.9 52.3

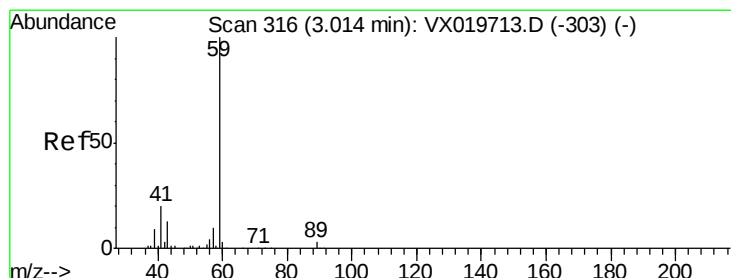
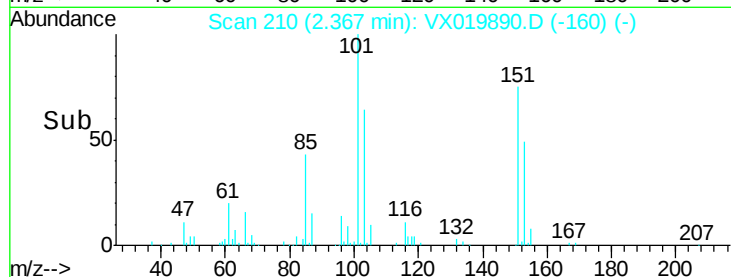
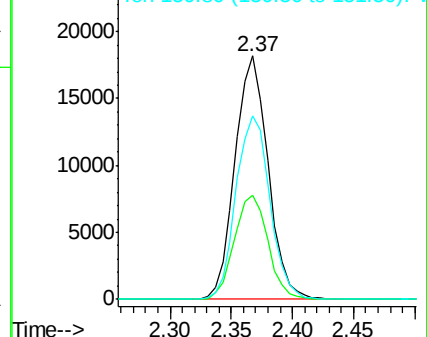
151 77.5 61.4 92.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX019890.D

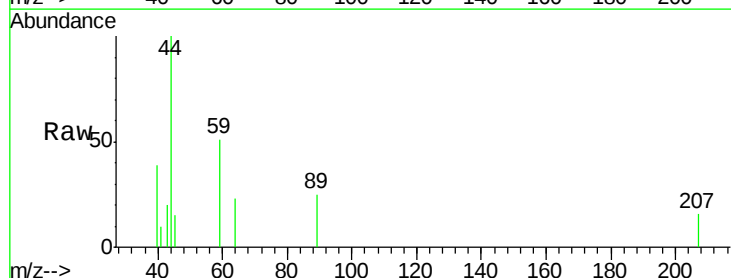
Acq: 11 Dec 2020 21:16

Tgt Ion: 59 Resp: 579

Ion Ratio Lower Upper

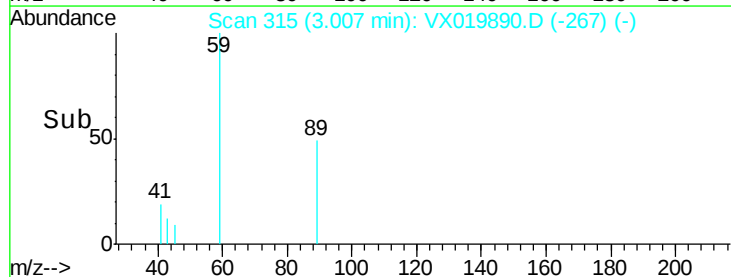
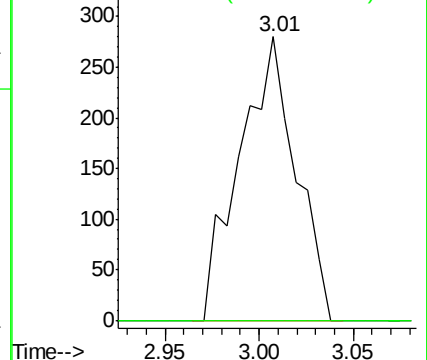
59 100

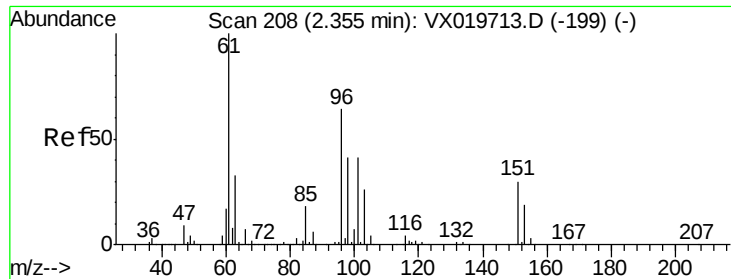
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

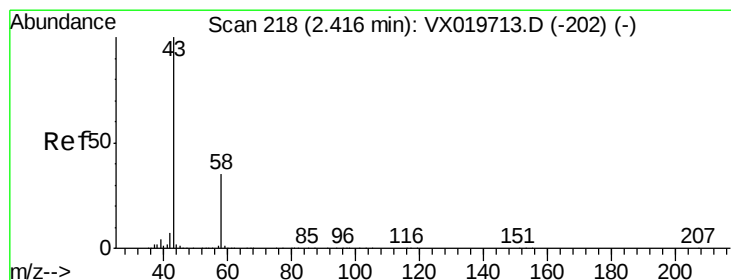
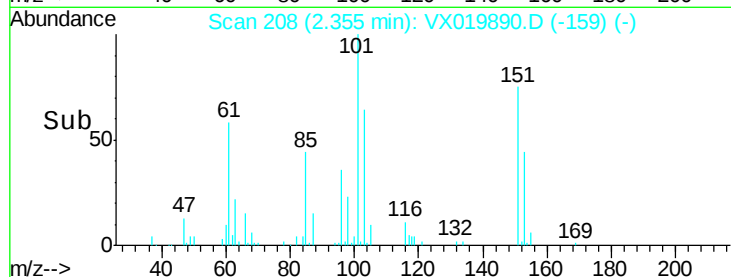
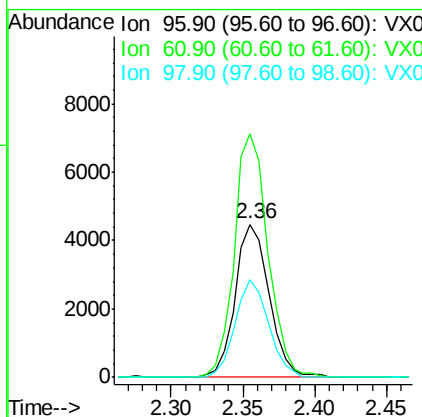
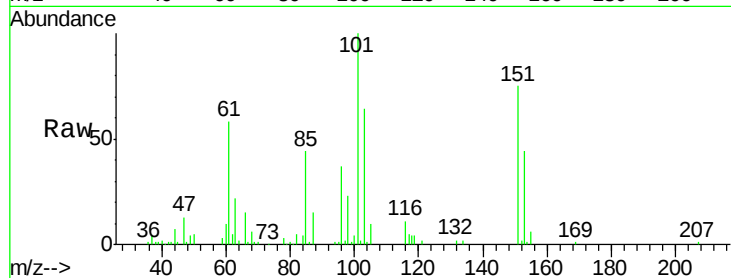




#12
1,1-Dichloroethene
Concen: 2.509 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

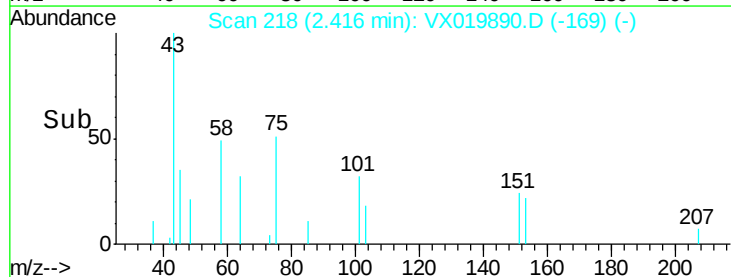
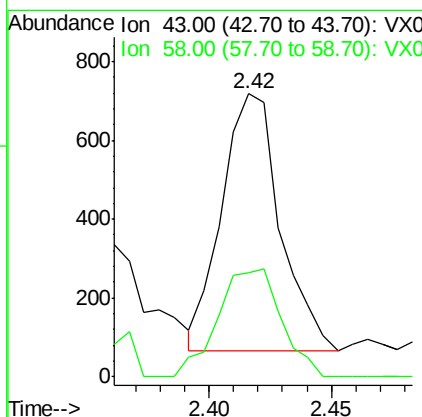
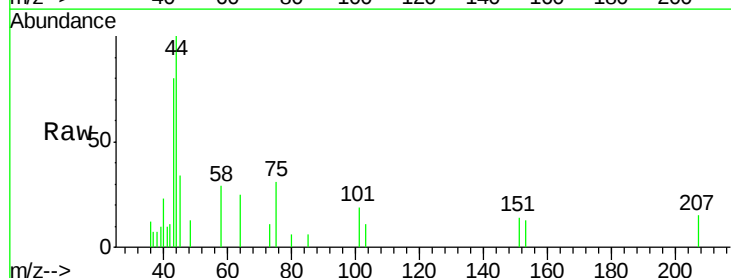
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20201207

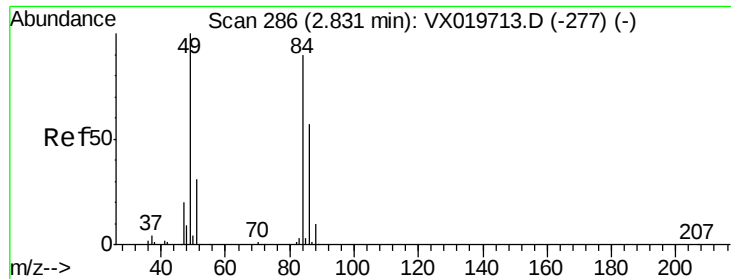
Tgt Ion: 96 Resp: 7347
Ion Ratio Lower Upper
96 100
61 158.8 124.6 187.0
98 63.4 50.6 76.0



#16
Acetone
Concen: 0.688 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.00 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

Tgt Ion: 43 Resp: 1087
Ion Ratio Lower Upper
43 100
58 40.4 27.8 41.8



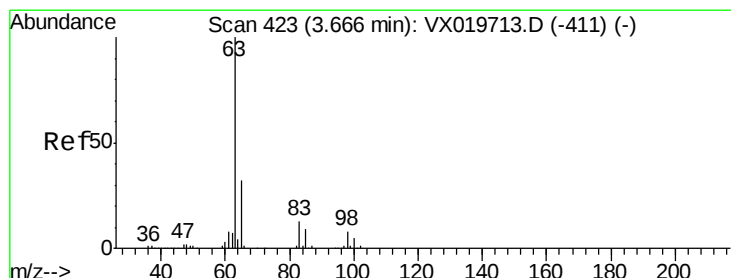
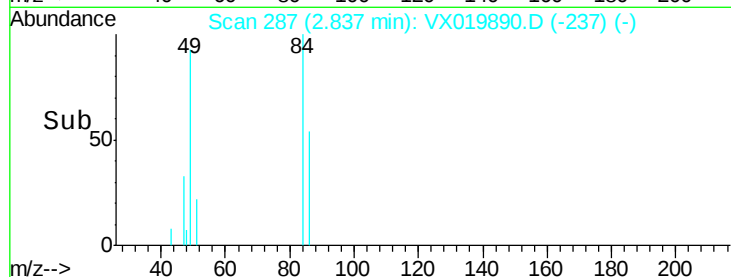
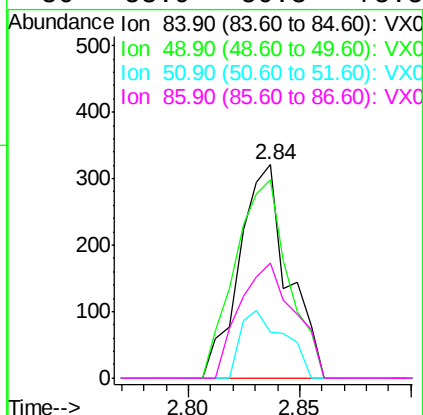
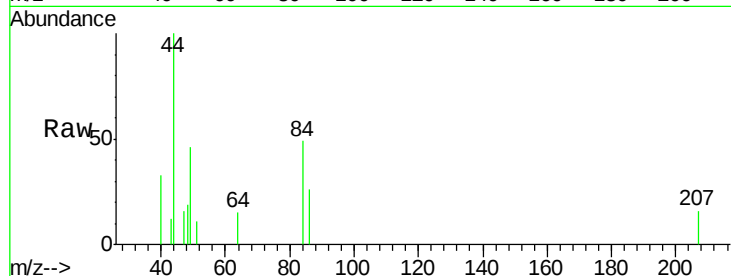


#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20201207

Tgt Ion: 84 Resp: 487

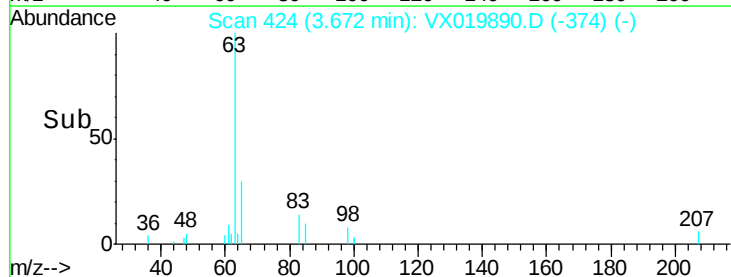
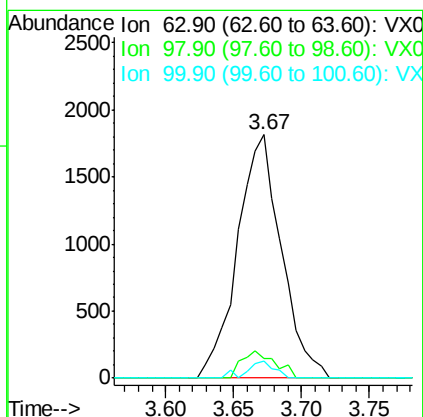
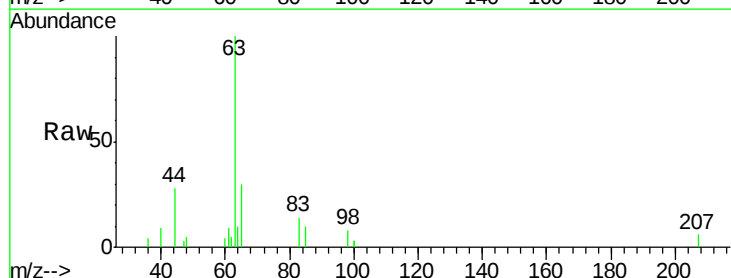
Ion	Ratio	Lower	Upper
84	100		
49	92.8	88.6	132.8
51	21.8	27.0	40.6#
86	53.9	50.3	75.5

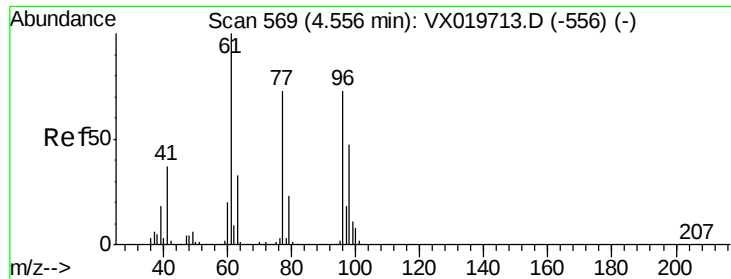


#24
1,1-Dichloroethane
Concen: 0.679 ug/l
RT: 3.67 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

Tgt Ion: 63 Resp: 4092

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.8	11.2
100	6.9	2.5	7.5

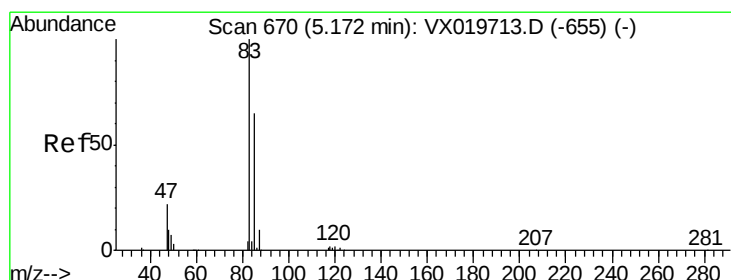
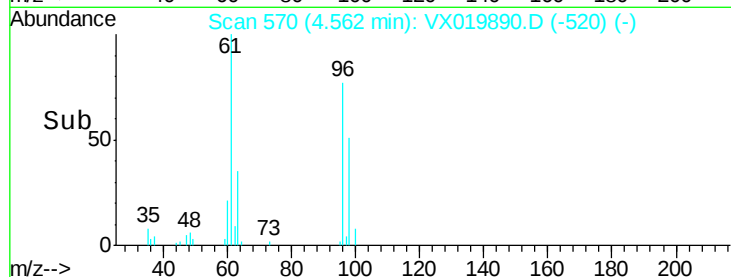
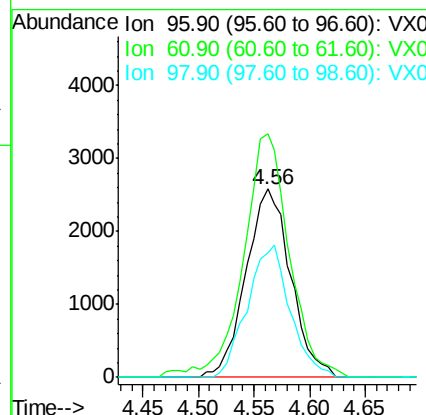
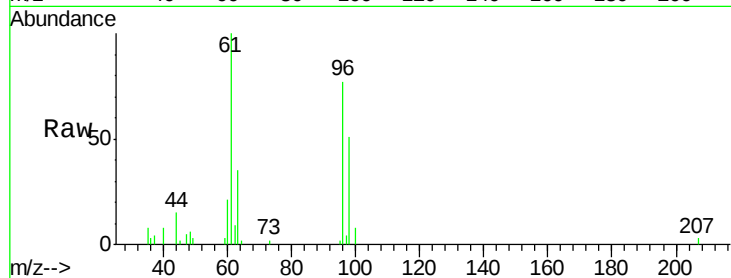




#27
 cis-1,2-Dichloroethene
 Concen: 1.806 ug/l
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

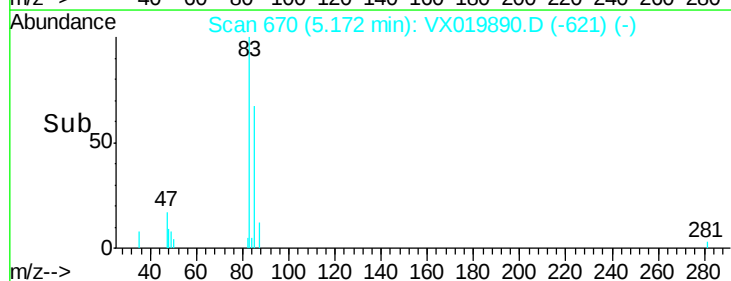
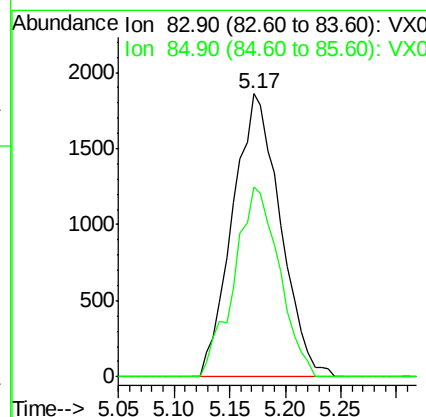
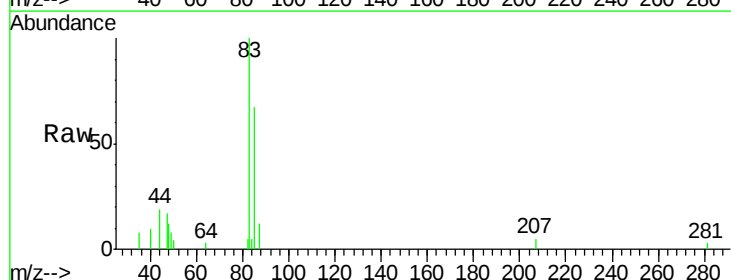
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D5-20201207

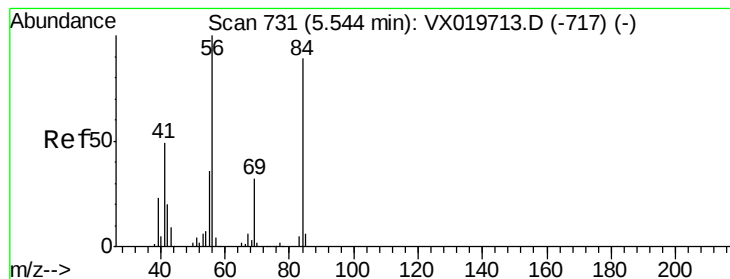
Tgt Ion: 96 Resp: 7216
 Ion Ratio Lower Upper
 96 100
 61 133.3 0.0 285.6
 98 67.2 0.0 129.6



#30
 Chloroform
 Concen: 0.892 ug/l
 RT: 5.17 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

Tgt Ion: 83 Resp: 5531
 Ion Ratio Lower Upper
 83 100
 85 67.0 52.0 78.0





#31

Cyclohexane

Concen: 1.193 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20201207

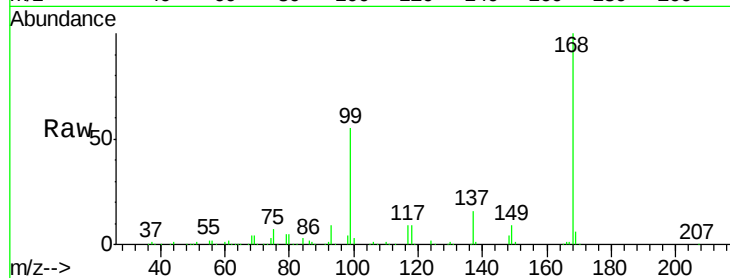
Tgt Ion: 56 Resp: 6235

Ion Ratio Lower Upper

56 100

69 196.4 25.3 37.9#

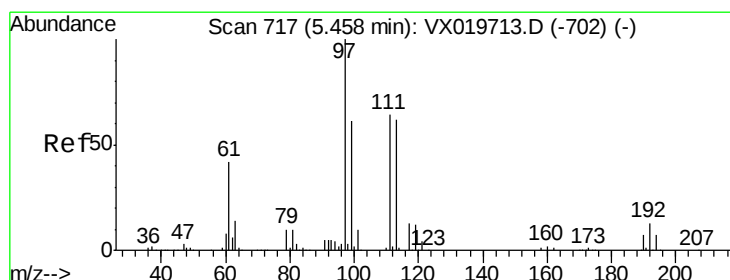
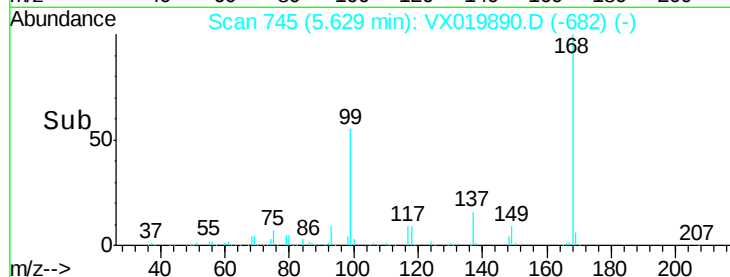
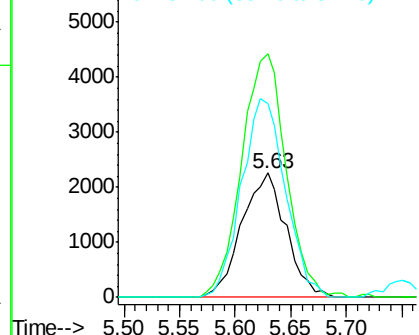
84 156.5 71.4 107.0#



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



#32

1,1,1-Trichloroethane

Concen: 0.325 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.00 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

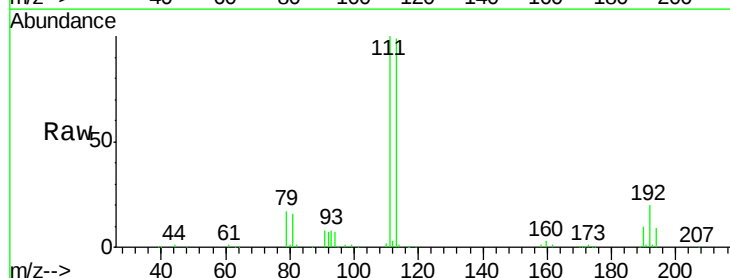
Tgt Ion: 97 Resp: 1733

Ion Ratio Lower Upper

97 100

99 0.0 51.5 77.3#

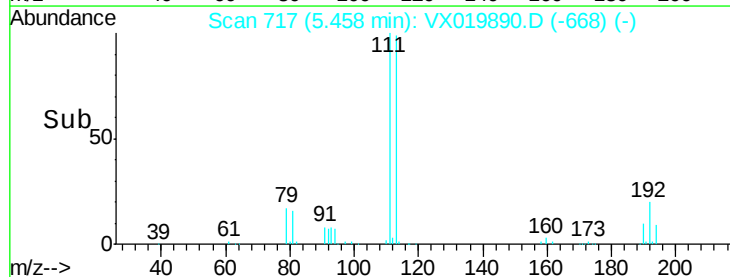
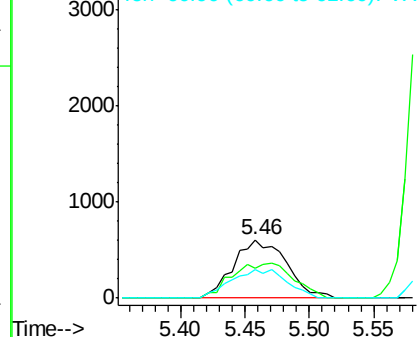
61 51.5 34.2 51.4#

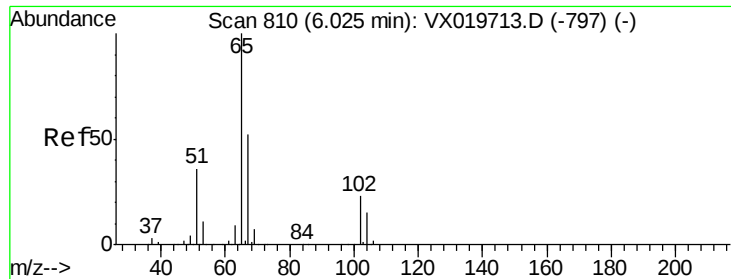


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

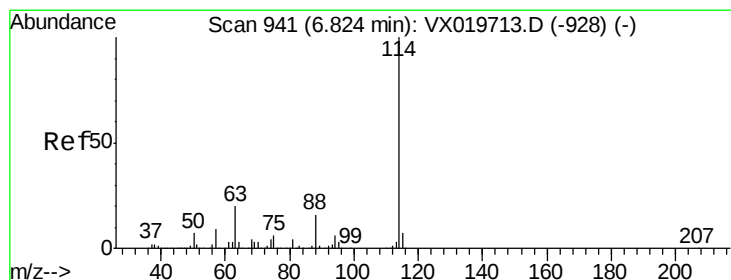
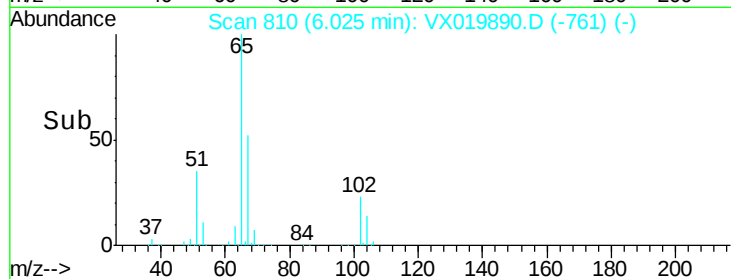
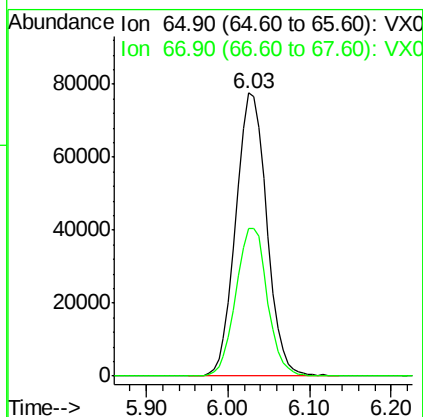
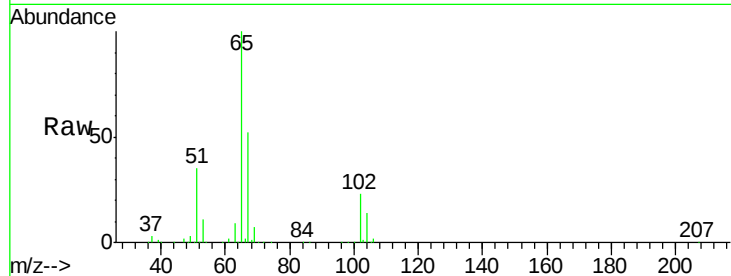




#33
 1,2-Dichloroethane-d4
 Concen: 48.831 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

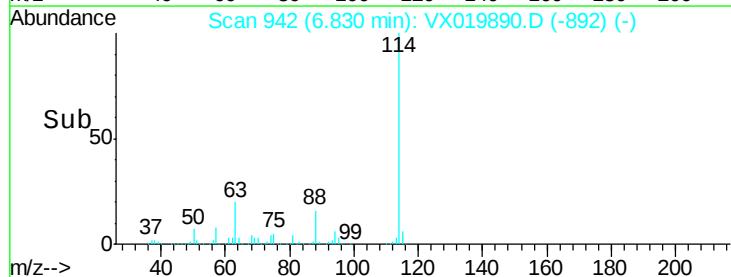
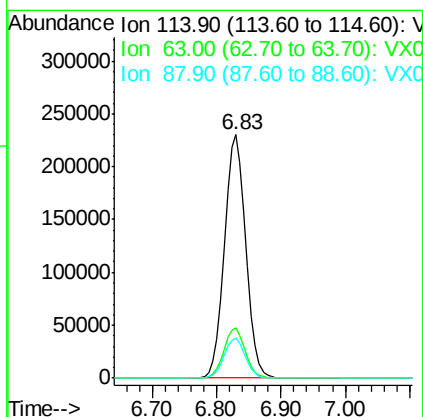
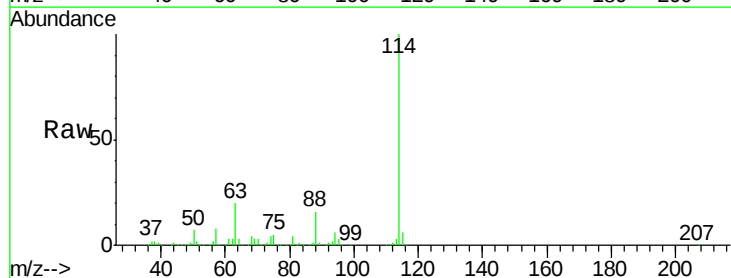
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D5-20201207

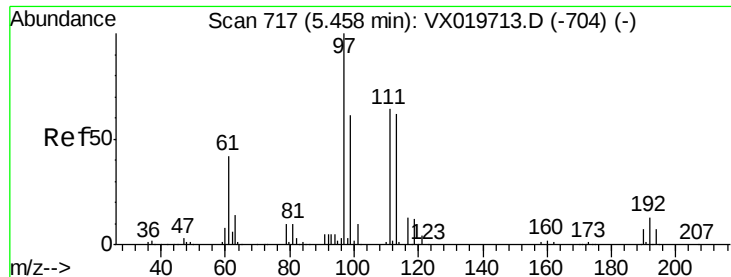
Tgt Ion: 65 Resp: 205136
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

Tgt Ion: 114 Resp: 537853
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 16.2 0.0 32.8

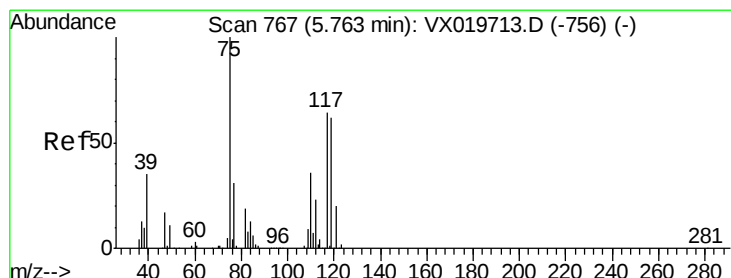
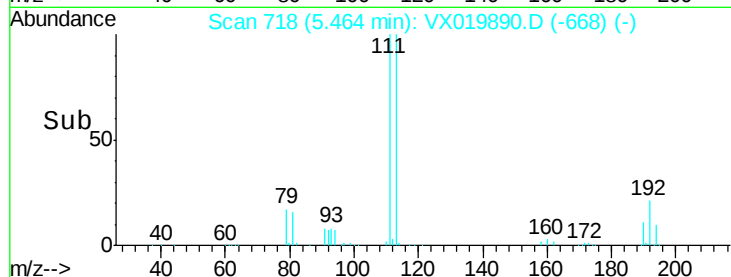
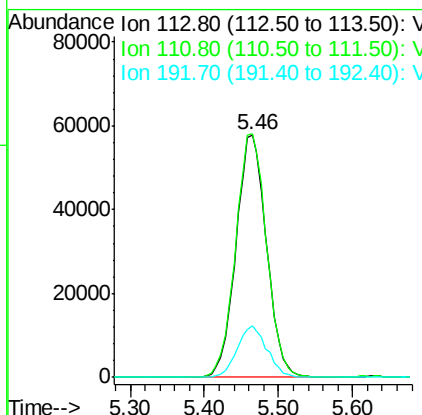
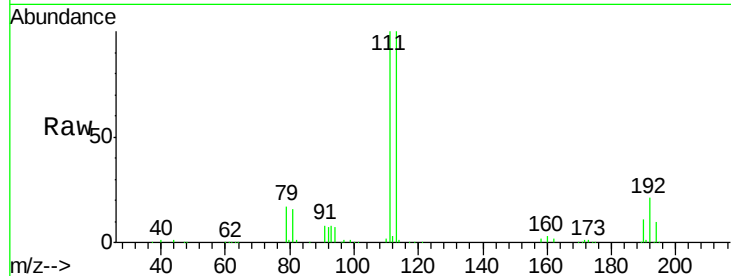




#35
 Dibromofluoromethane
 Concen: 47.788 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

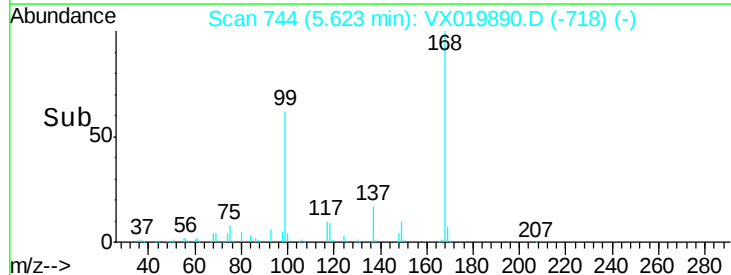
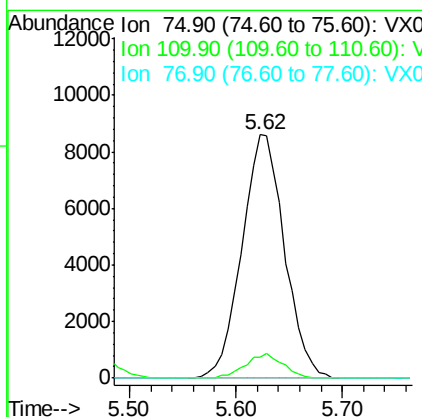
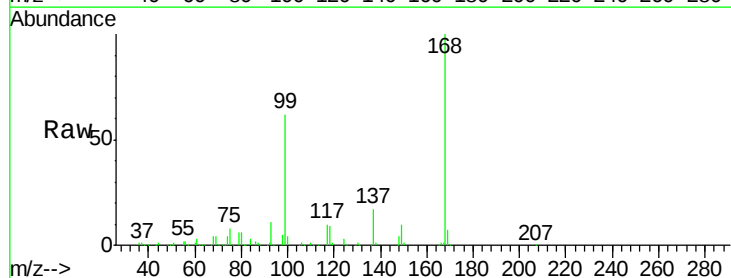
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D5-20201207

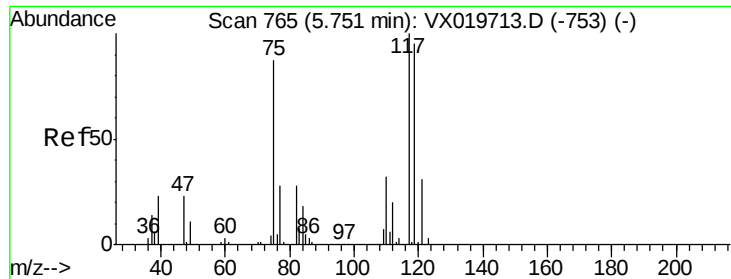
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	166115		
111	101.9	81.9	122.9	
192	20.6	16.7	25.1	



#36
 1,1-Dichloropropene
 Concen: 4.959 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	24103		
110	8.9	18.1	54.4#	
77	0.0	25.3	37.9#	

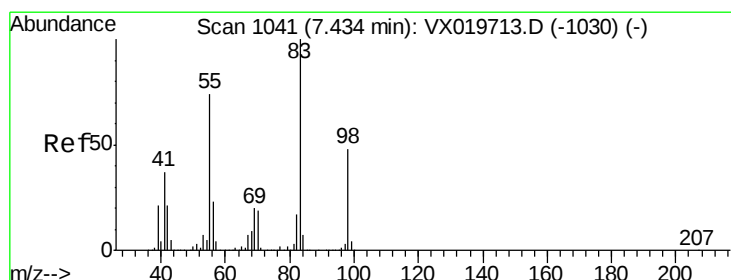
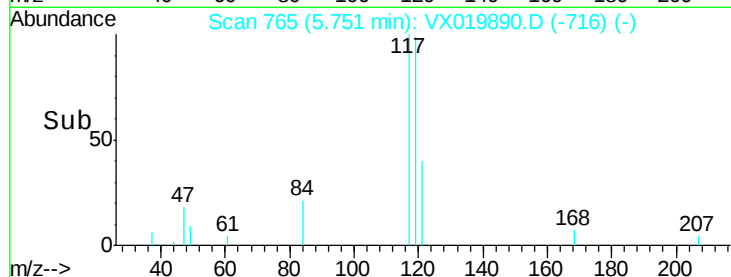
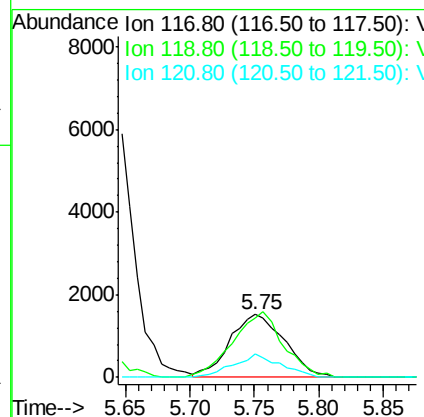
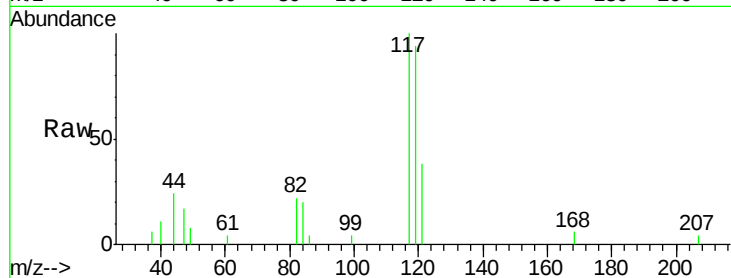




#38
Carbon Tetrachloride
Concen: 0.942 ug/l
RT: 5.75 min Scan# 765
Delta R.T. -0.00 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

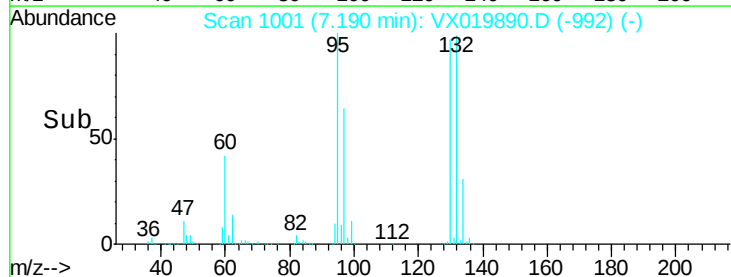
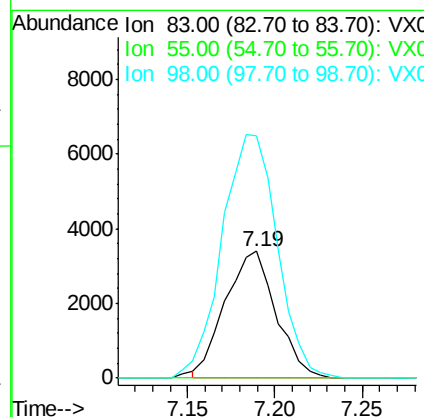
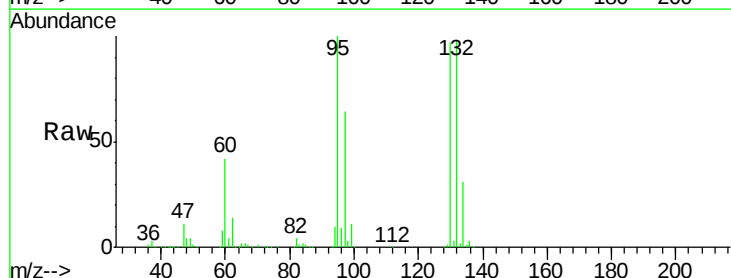
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20201207

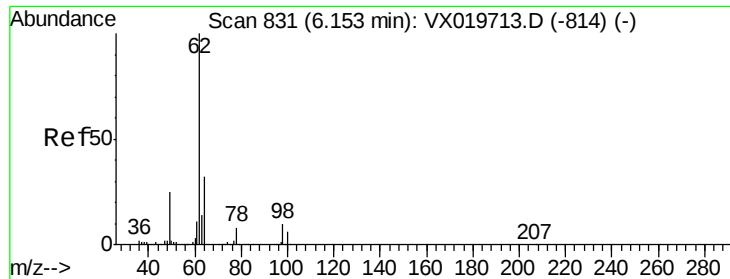
Tgt Ion:117 Resp: 4483
Ion Ratio Lower Upper
117 100
119 93.6 76.2 114.2
121 37.5 24.8 37.2#



#39
Methylcyclohexane
Concen: 1.200 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. -0.24 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

Tgt Ion: 83 Resp: 6850
Ion Ratio Lower Upper
83 100
55 0.0 58.9 88.3#
98 190.3 38.1 57.1#





#42

1,2-Dichloroethane

Concen: 0.261 ug/l

RT: 6.17 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

Instrument :

MSVOA_X

ClientSampleId :

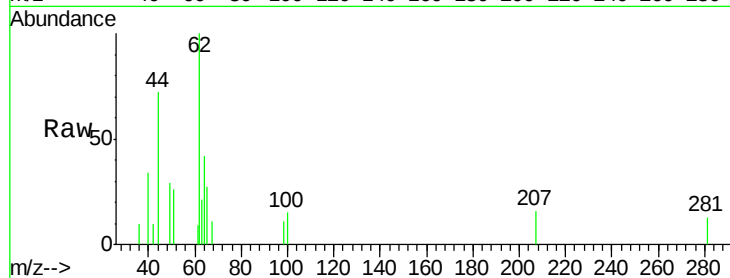
RE132D5-20201207

Tgt Ion: 62 Resp: 1322

Ion Ratio Lower Upper

62 100

98 6.4 0.0 20.2

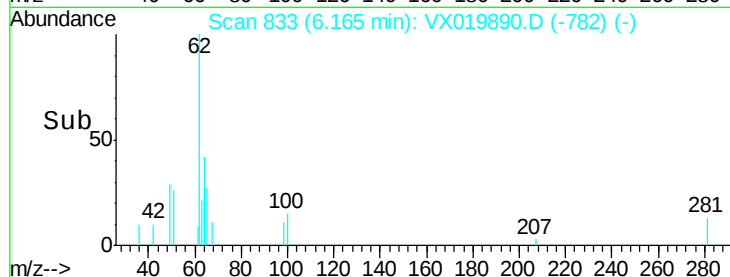


Abundance Ion 61.90 (61.60 to 62.60): VX019713.D (-814) (-)

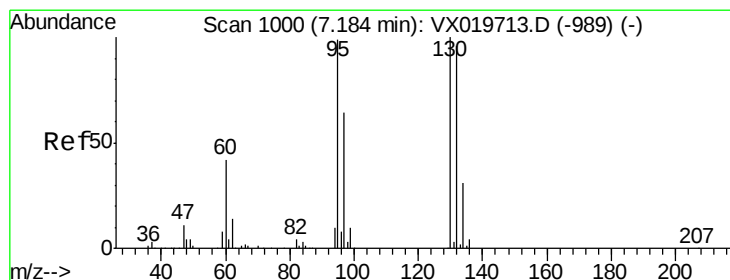
Ion 97.90 (97.60 to 98.60): VX019713.D (-814) (-)

6.17

6.10 6.15 6.20 6.25



Time-->



#44

Trichloroethene

Concen: 145.460 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019890.D

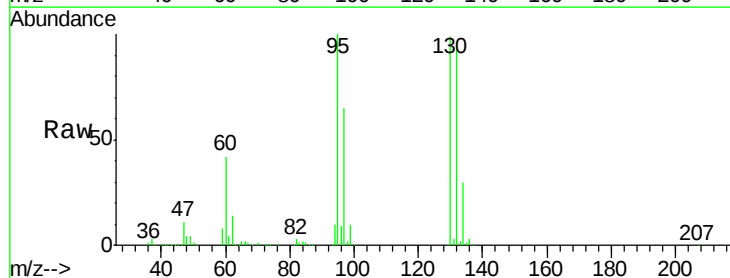
Acq: 11 Dec 2020 21:16

Tgt Ion: 130 Resp: 566622

Ion Ratio Lower Upper

130 100

95 100.6 0.0 198.0

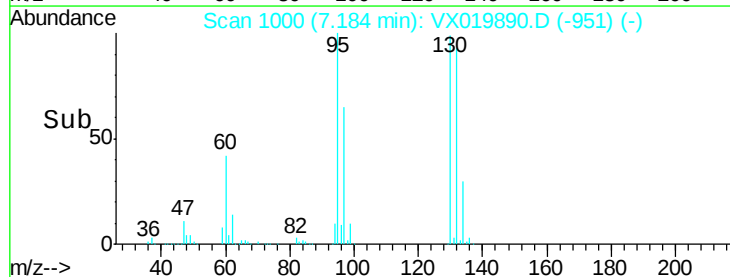


Abundance Ion 129.80 (129.50 to 130.50): VX019713.D (-989) (-)

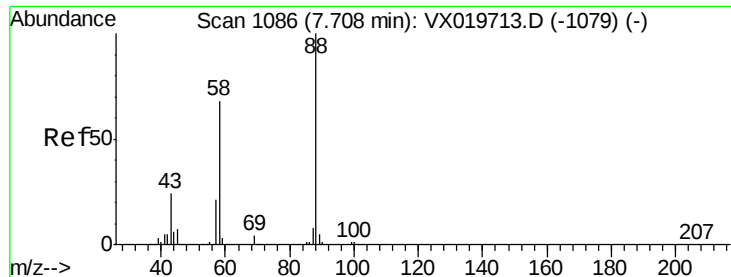
Ion 94.90 (94.60 to 95.60): VX019713.D (-989) (-)

7.18

7.00 7.10 7.20 7.30 7.40



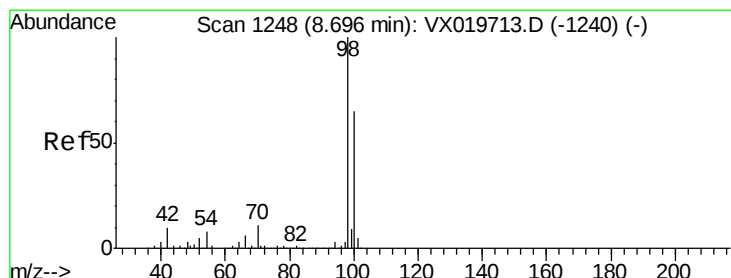
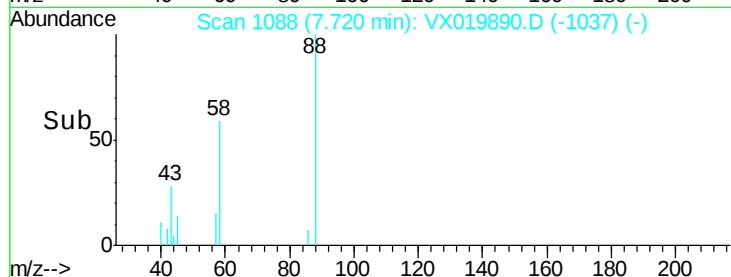
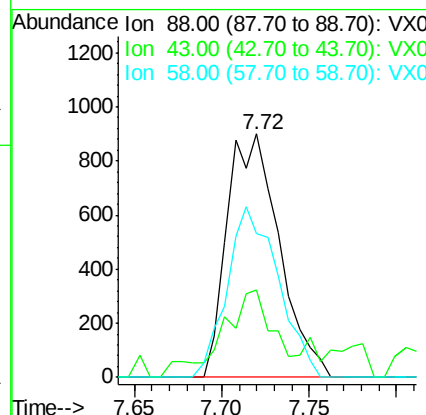
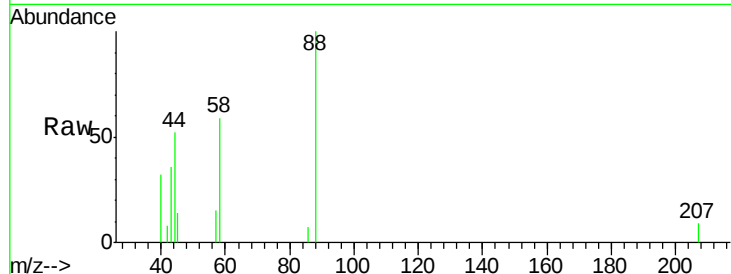
Time-->



#49
1,4-Dioxane
Concen: 19.558 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

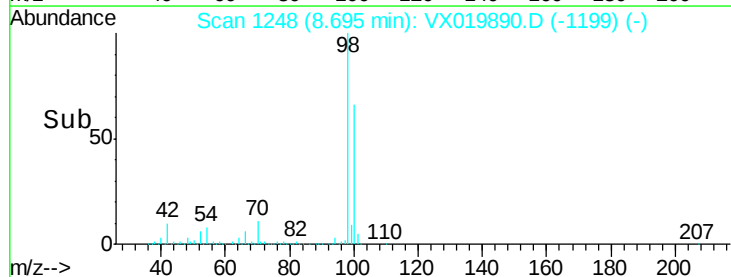
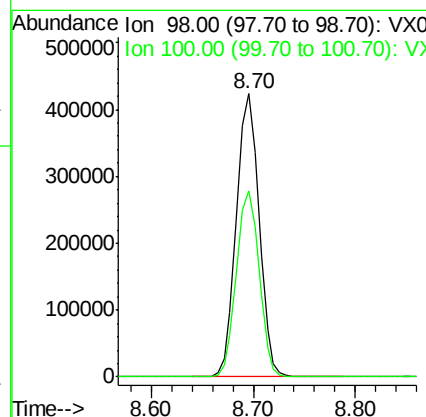
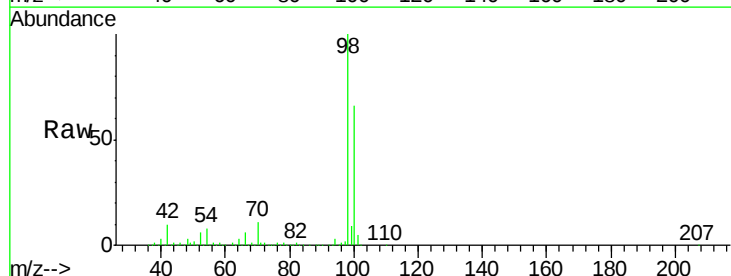
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20201207

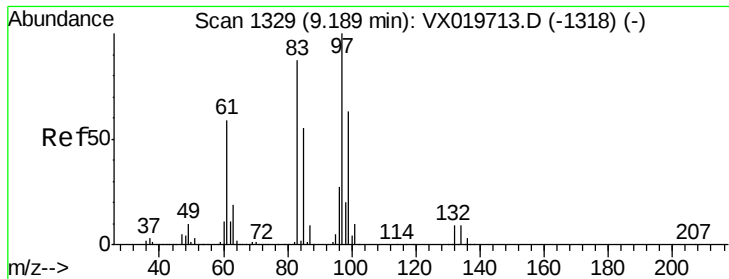
Tgt Ion: 88 Resp: 1859
Ion Ratio Lower Upper
88 100
43 36.6 23.2 34.8#
58 68.7 55.0 82.4



#50
Toluene-d8
Concen: 49.088 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

Tgt Ion: 98 Resp: 651427
Ion Ratio Lower Upper
98 100
100 65.9 51.9 77.9





#55

1,1,2-Trichloroethane

Concen: 0.442 ug/l

RT: 9.20 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20201207

Tgt Ion: 97 Resp: 1654

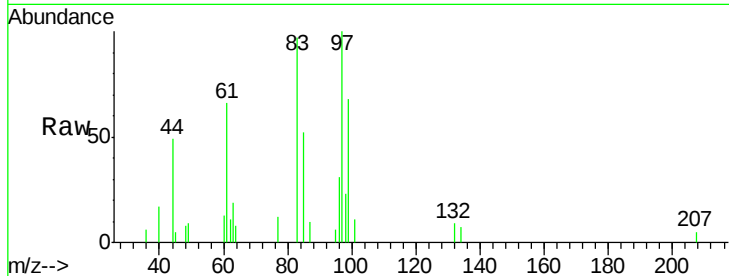
Ion Ratio Lower Upper

97 100

83 97.0 69.3 103.9

85 52.2 44.3 66.5

99 68.1 50.3 75.5

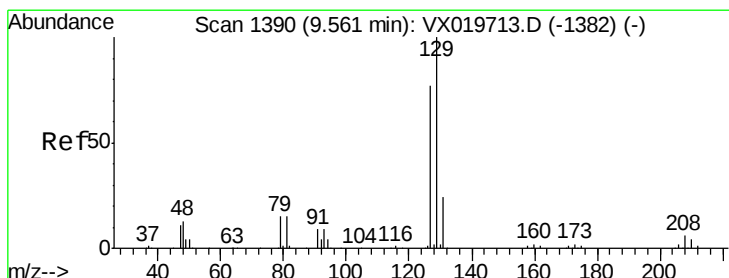
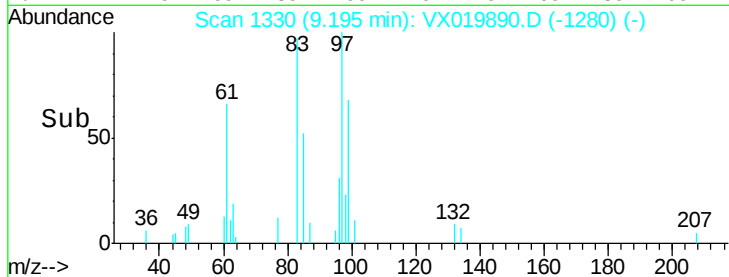
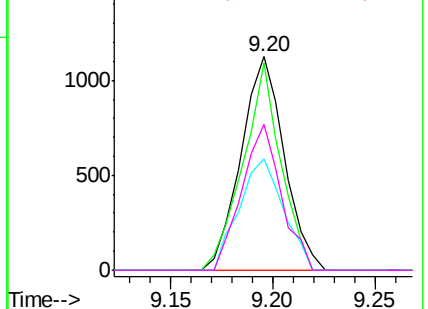


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#60

Dibromochloromethane

Concen: 0.213 ug/l

RT: 9.31 min Scan# 1349

Delta R.T. -0.25 min

Lab File: VX019890.D

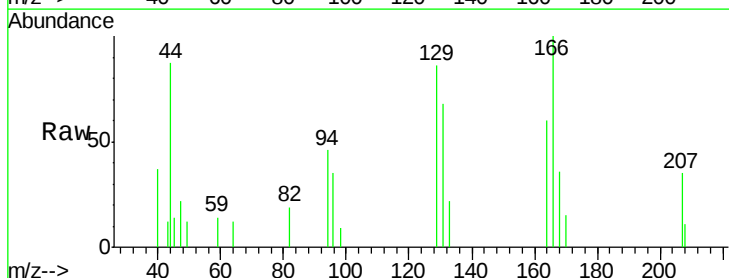
Acq: 11 Dec 2020 21:16

Tgt Ion: 129 Resp: 808

Ion Ratio Lower Upper

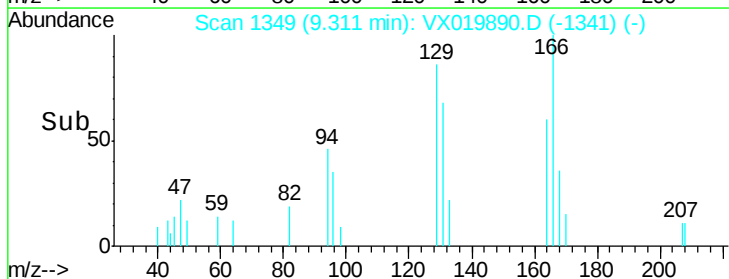
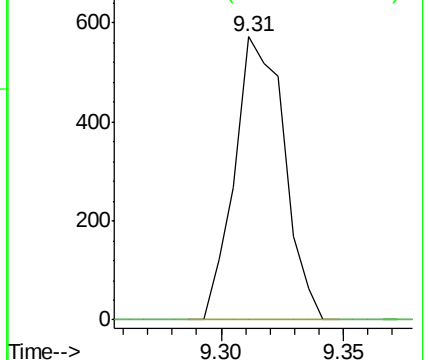
129 100

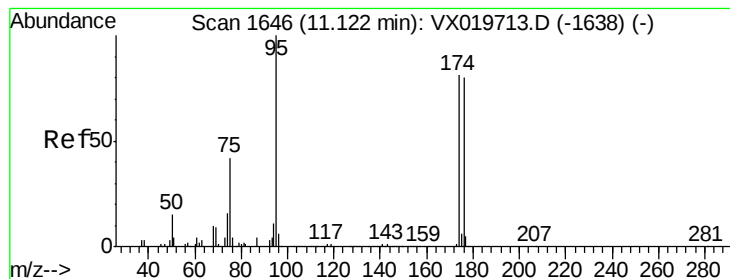
127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 44.873 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

Instrument :

MSVOA_X

ClientSampleId :

RE132D5-20201207

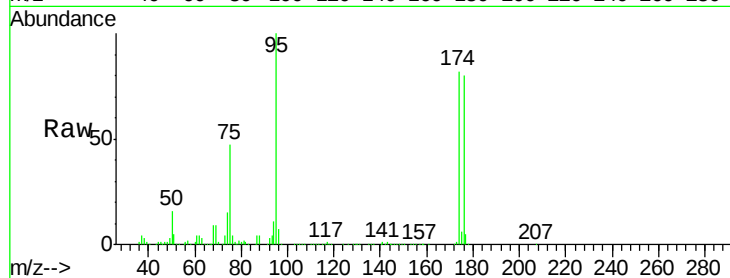
Tgt Ion: 95 Resp: 226655

Ion Ratio Lower Upper

95 100

174 79.0 0.0 154.6

176 76.0 0.0 155.8

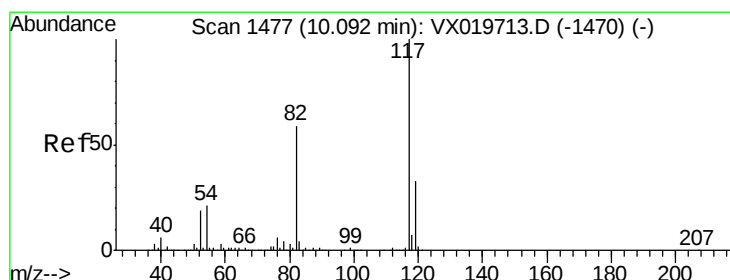
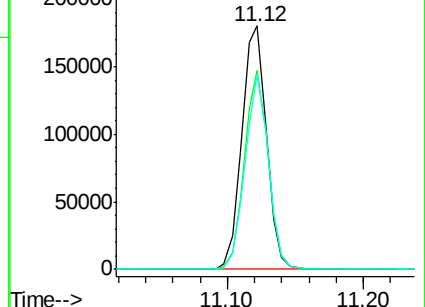
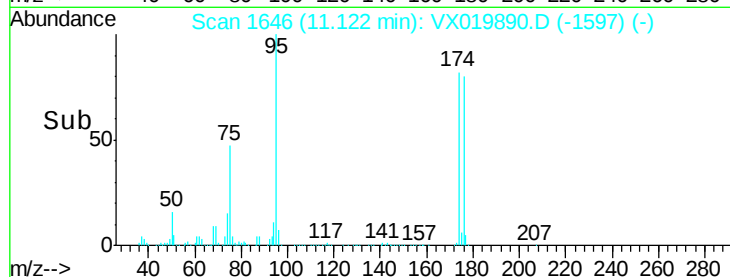


Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019890.D

Acq: 11 Dec 2020 21:16

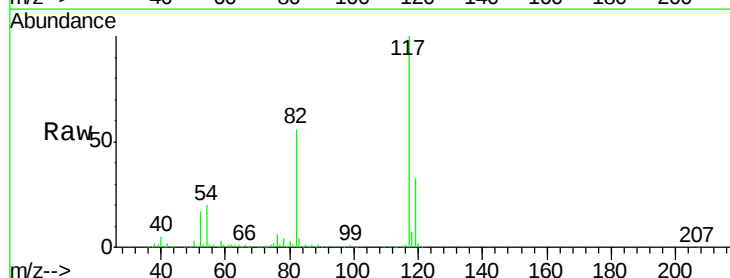
Tgt Ion: 117 Resp: 496329

Ion Ratio Lower Upper

117 100

82 55.8 47.4 71.2

119 32.7 26.6 39.8

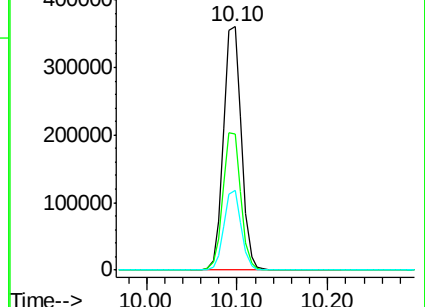
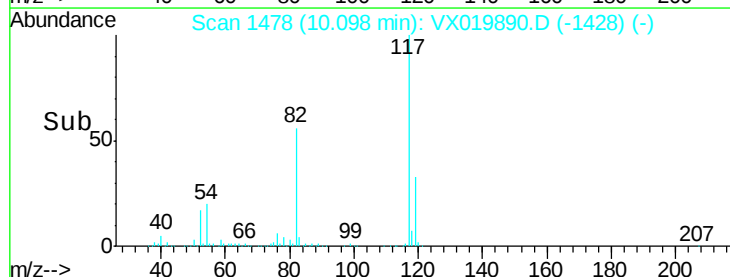


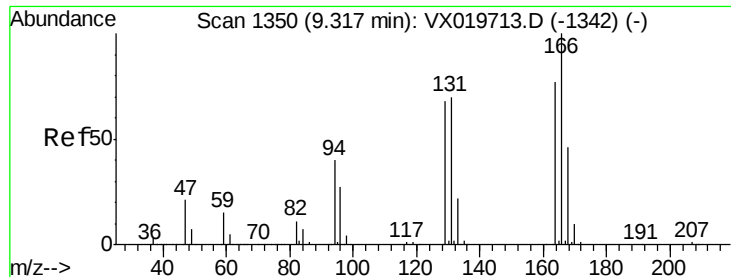
Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

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

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

Time-->

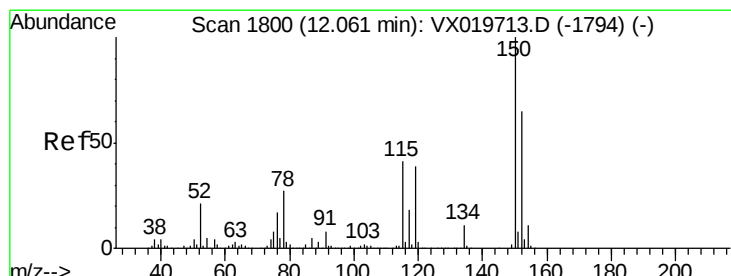
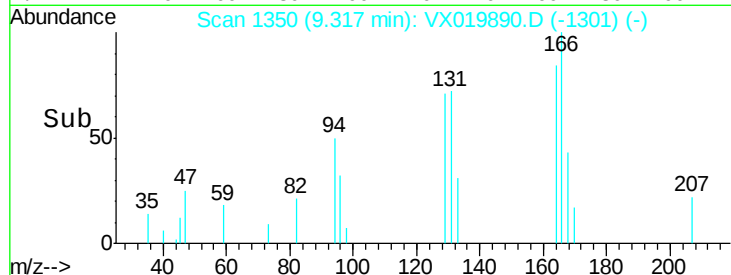
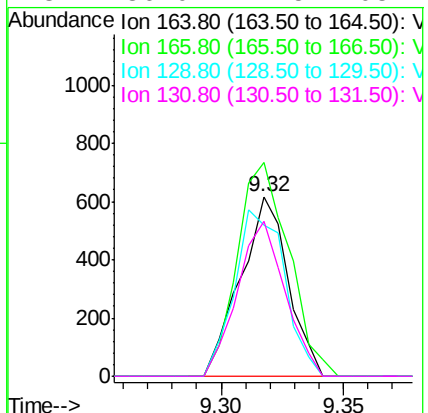
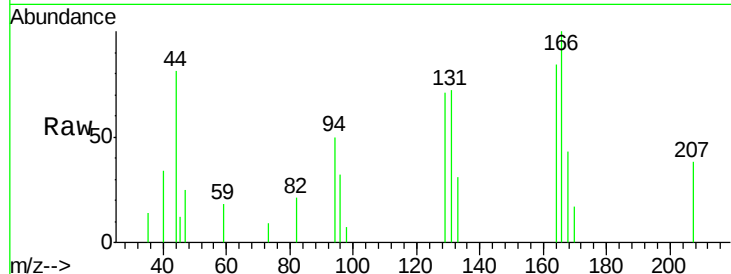




#64
Tetrachloroethene
Concen: 0.251 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

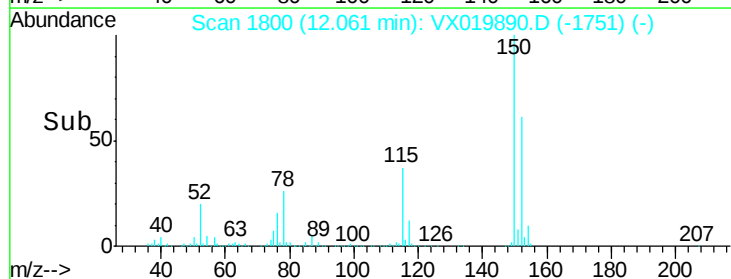
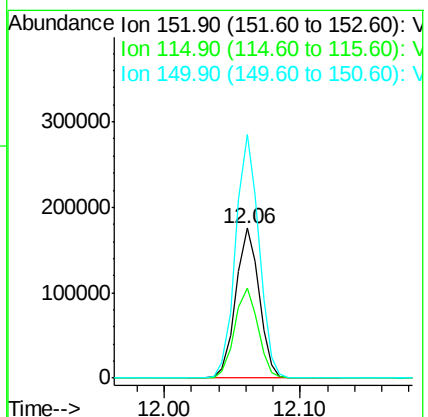
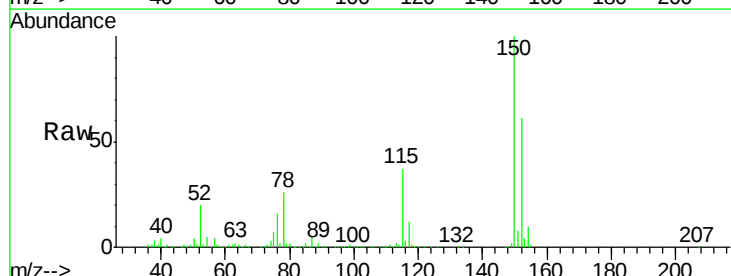
Instrument :
MSVOA_X
ClientSampleId :
RE132D5-20201207

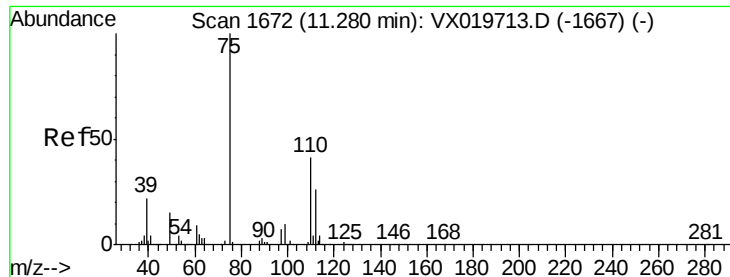
Tgt Ion:164 Resp: 835
Ion Ratio Lower Upper
164 100
166 119.2 103.4 155.2
129 84.3 70.8 106.2
131 86.0 72.5 108.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019890.D
Acq: 11 Dec 2020 21:16

Tgt Ion:152 Resp: 210337
Ion Ratio Lower Upper
152 100
115 60.4 41.1 123.3
150 161.6 0.0 349.0

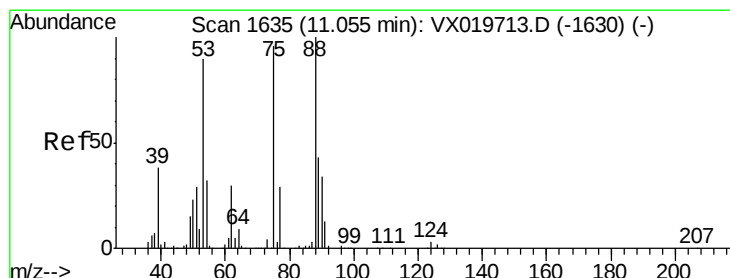
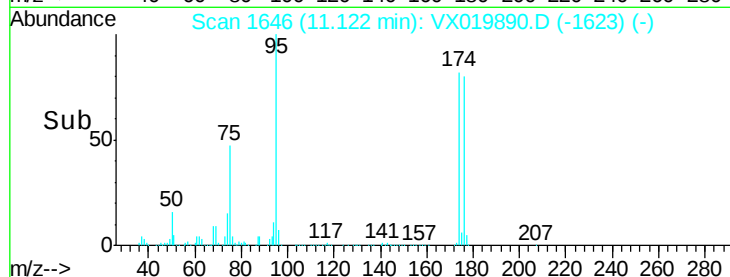
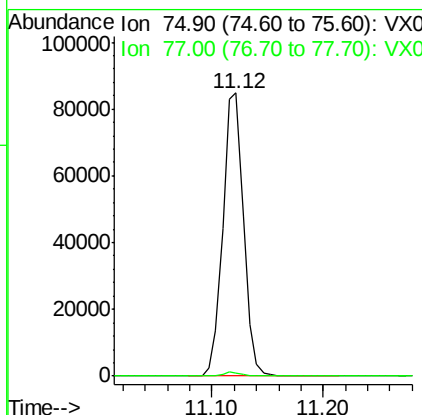
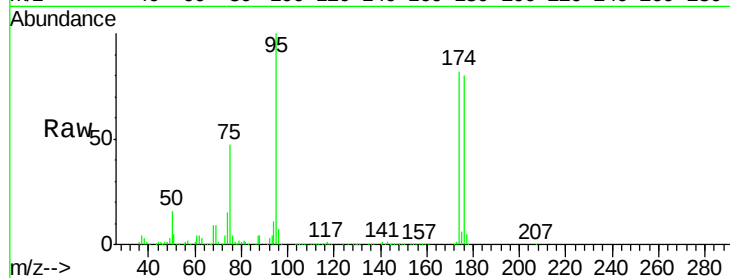




#76
 1,2,3-Trichloropropane
 Concen: 23.098 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D5-20201207

Tgt Ion: 75 Resp: 108967
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.774 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019890.D
 Acq: 11 Dec 2020 21:16

Tgt Ion: 75 Resp: 108967
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

