

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019831.D
 Acq On : 10 Dec 2020 17:27
 Operator : JC/MD
 Sample : L4996-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20201208

Quant Time: Dec 11 00:52:42 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	310354	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	528348	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	488845	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	210607	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	202955	49.76	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.52%
35) Dibromofluoromethane	5.46	113	161261	47.23	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.46%
50) Toluene-d8	8.70	98	637826	48.93	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.86%
62) 4-Bromofluorobenzene	11.12	95	226444	45.64	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.28%

Target Compounds

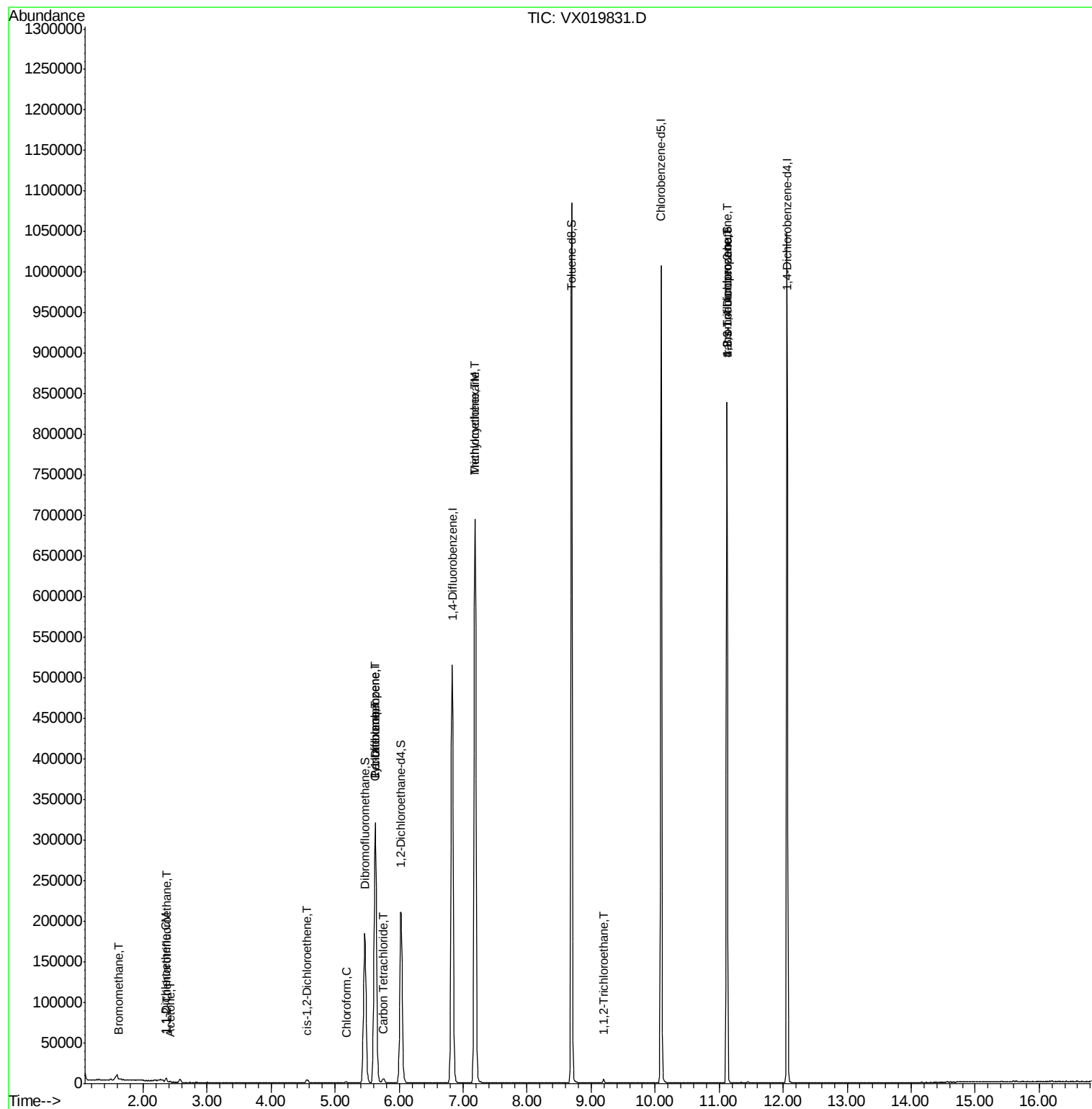
					Qvalue	
5) Bromomethane	1.63	94	478	0.409	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	835	0.297	ug/l	87
11) Tert butyl alcohol	3.00	59	533	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	1068	0.376	ug/l	93
16) Acetone	2.42	43	1406	0.917	ug/l #	88
20) Methylene Chloride	2.82	84	292	Below Cal	#	66
27) cis-1,2-Dichloroethene	4.55	96	2316	0.597	ug/l	89
30) Chloroform	5.18	83	1579	0.262	ug/l	97
31) Cyclohexane	5.62	56	5916	1.166	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23732	4.971	ug/l #	48
38) Carbon Tetrachloride	5.75	117	4580	0.980	ug/l	95
39) Methylcyclohexane	7.19	83	3196	0.570	ug/l #	1
44) Trichloroethene	7.18	130	277264	72.458	ug/l	99
55) 1,1,2-Trichloroethane	9.20	97	1318	0.359	ug/l	90
76) 1,2,3-Trichloropropane	11.12	75	109832	23.252	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	109832	67.217	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

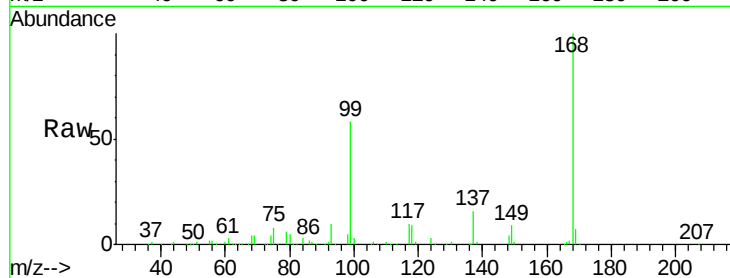
RE117D1-20201208

Tgt Ion:168 Resp: 310354

Ion Ratio Lower Upper

168 100

99 58.0 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

120000

100000

80000

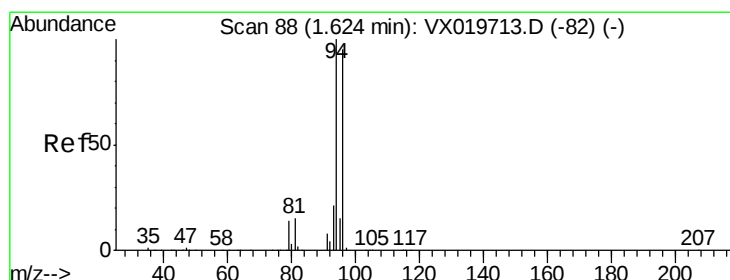
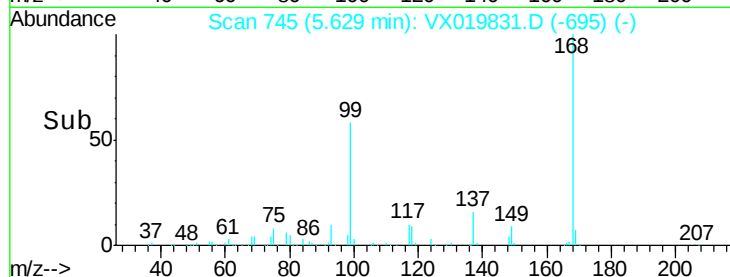
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.409 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019831.D

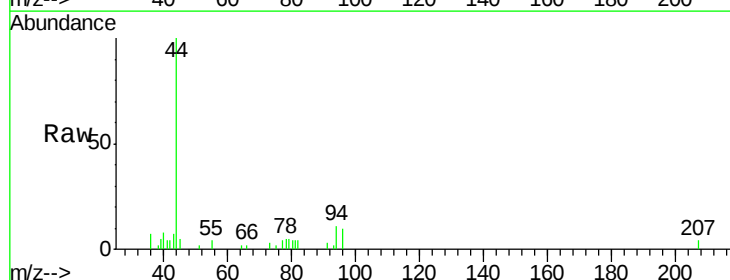
Acq: 10 Dec 2020 17:27

Tgt Ion: 94 Resp: 478

Ion Ratio Lower Upper

94 100

96 89.9 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

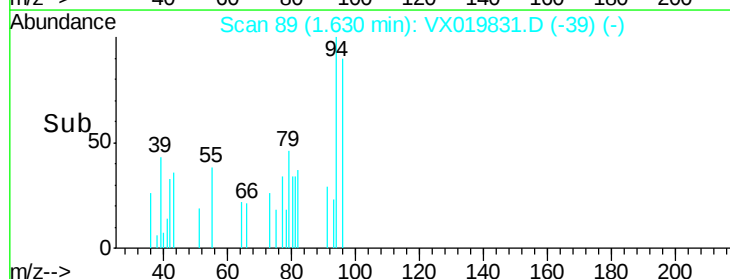
300

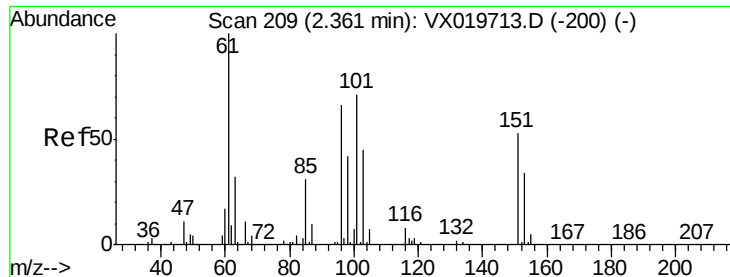
200

100

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.297 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20201208

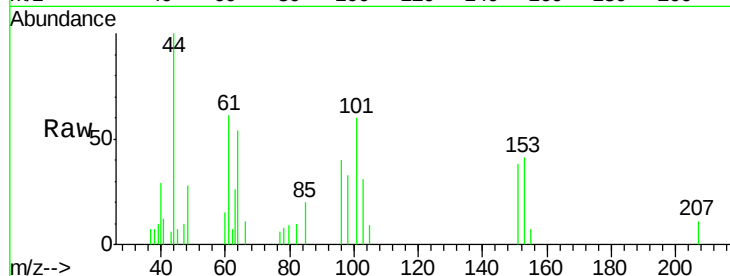
Tgt Ion: 101 Resp: 835

Ion Ratio Lower Upper

101 100

85 38.1 34.9 52.3

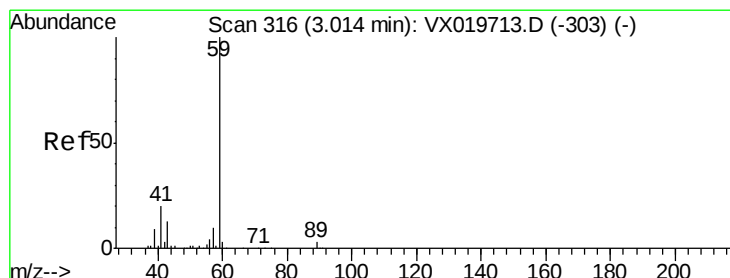
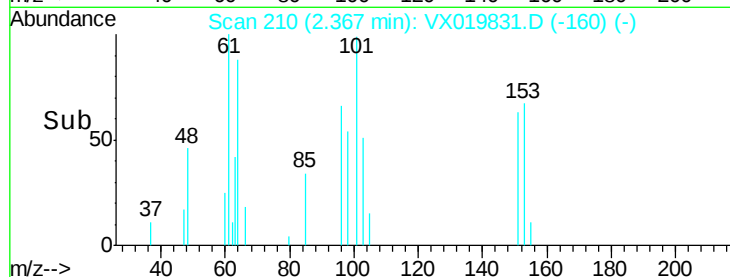
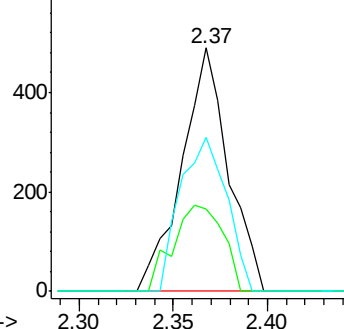
151 63.4 61.4 92.2



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: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX019831.D

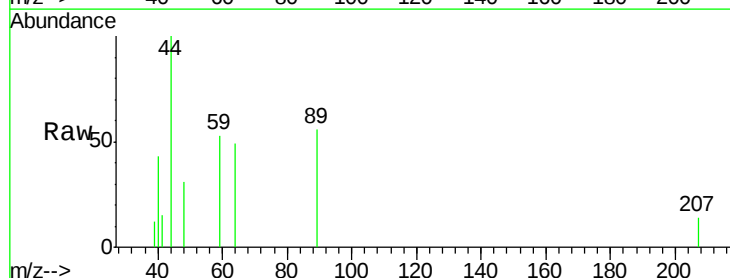
Acq: 10 Dec 2020 17:27

Tgt Ion: 59 Resp: 533

Ion Ratio Lower Upper

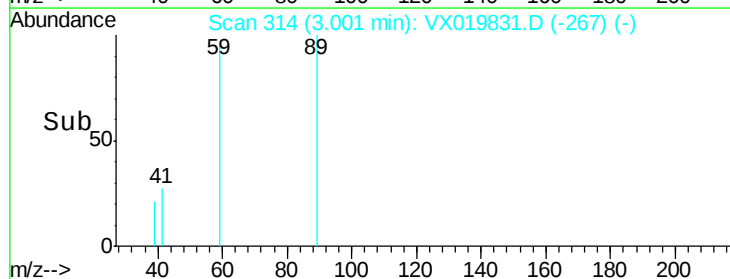
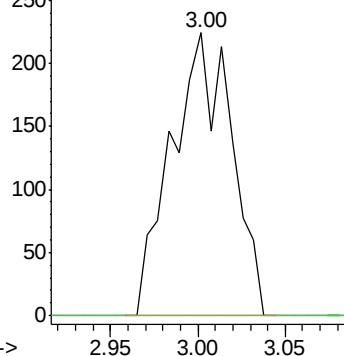
59 100

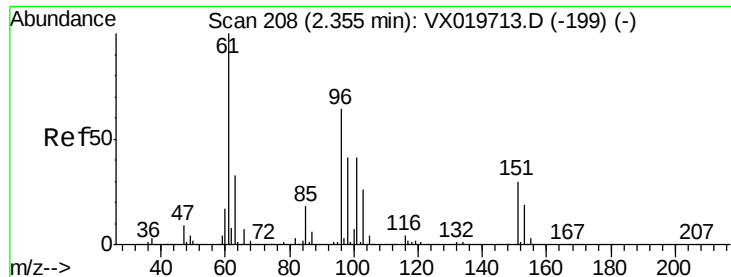
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

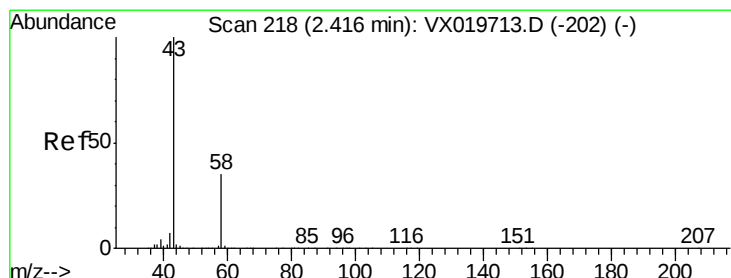
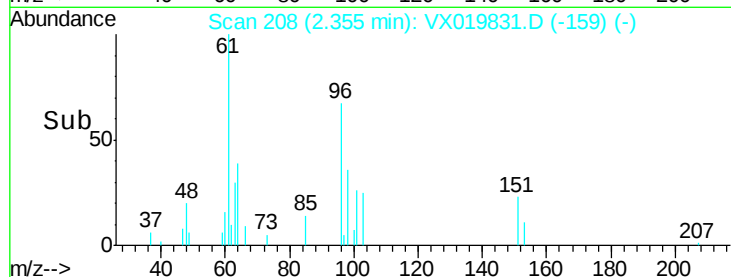
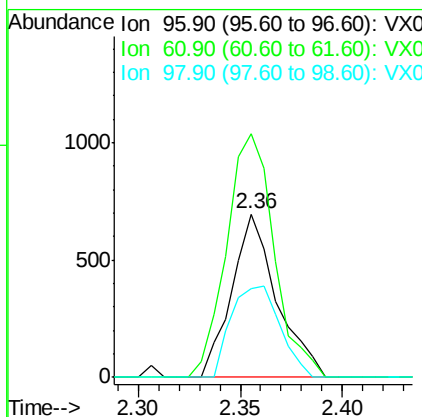
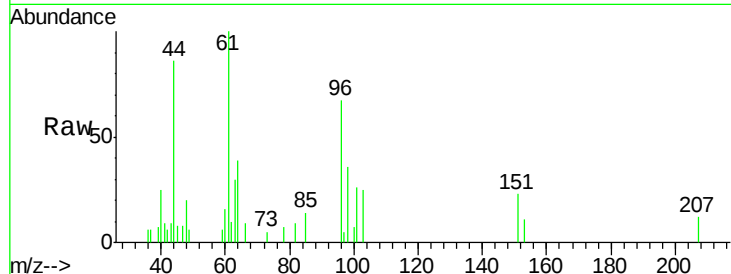




#12
 1,1-Dichloroethene
 Concen: 0.376 ug/l
 RT: 2.36 min Scan# 208
 Delta R.T. -0.00 min
 Lab File: VX019831.D
 Acq: 10 Dec 2020 17:27

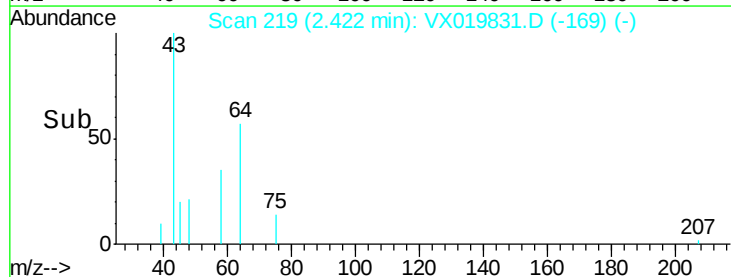
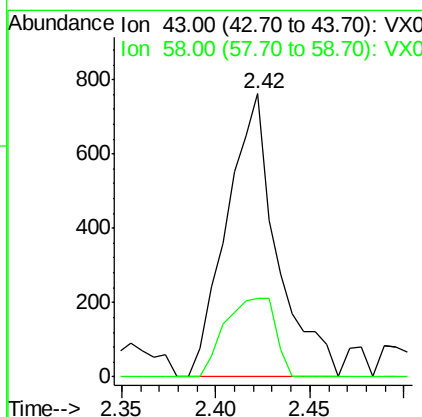
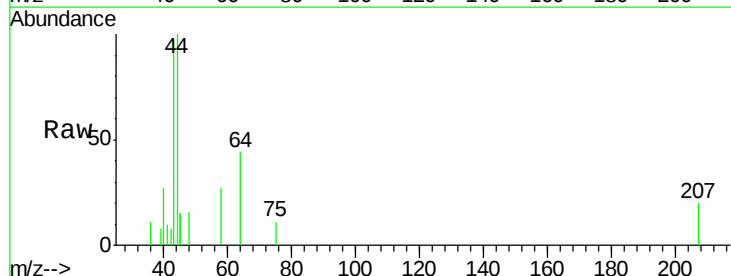
Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20201208

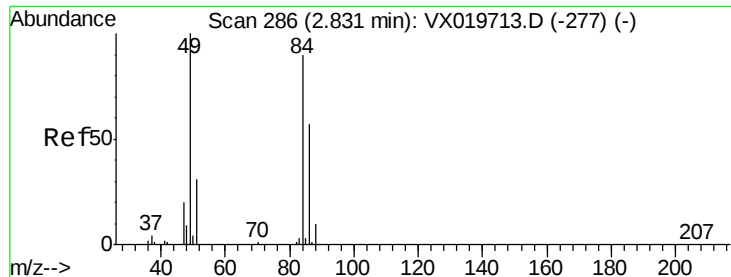
Tgt Ion: 96 Resp: 1068
 Ion Ratio Lower Upper
 96 100
 61 149.4 124.6 187.0
 98 54.1 50.6 76.0



#16
 Acetone
 Concen: 0.917 ug/l
 RT: 2.42 min Scan# 219
 Delta R.T. 0.01 min
 Lab File: VX019831.D
 Acq: 10 Dec 2020 17:27

Tgt Ion: 43 Resp: 1406
 Ion Ratio Lower Upper
 43 100
 58 27.8 27.8 41.8#

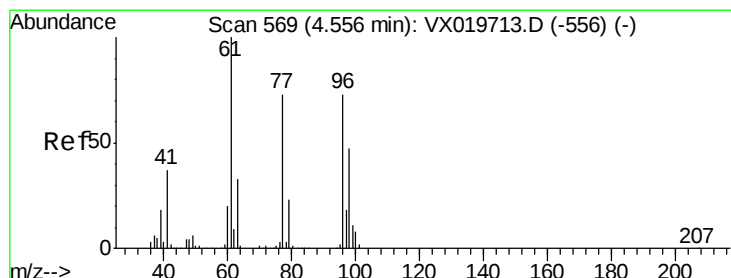
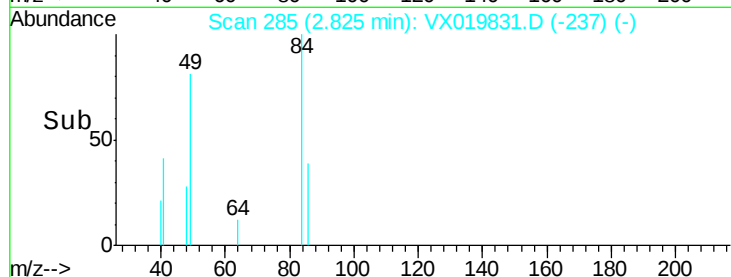
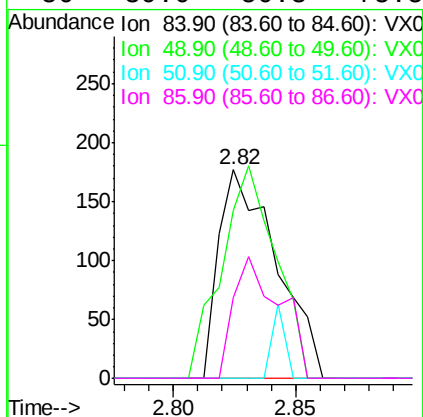
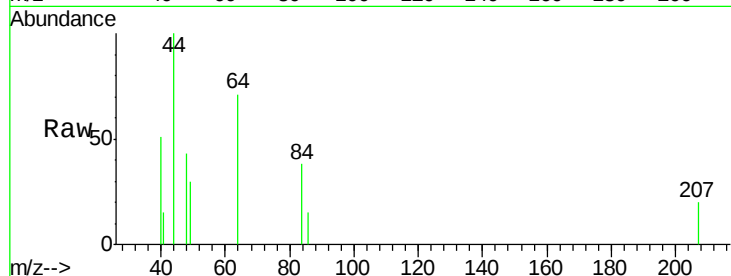




#20
Methylene Chloride
Concen: Below Cal
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX019831.D
Acq: 10 Dec 2020 17:27

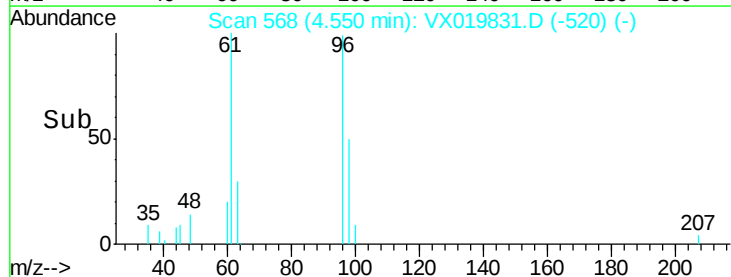
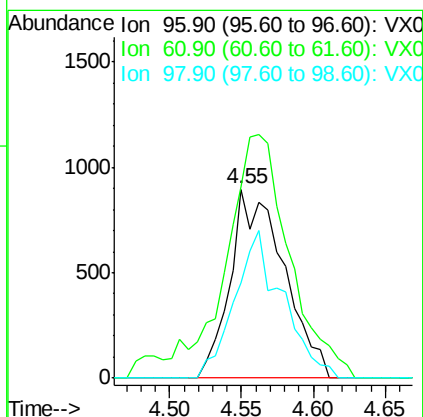
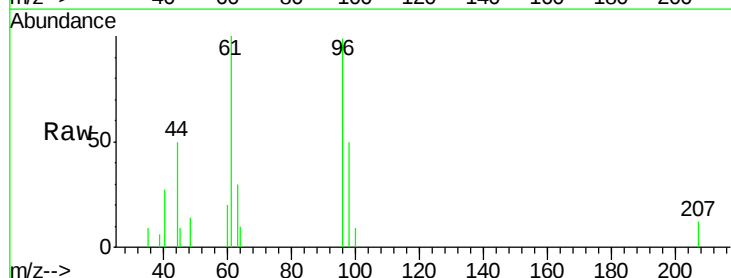
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20201208

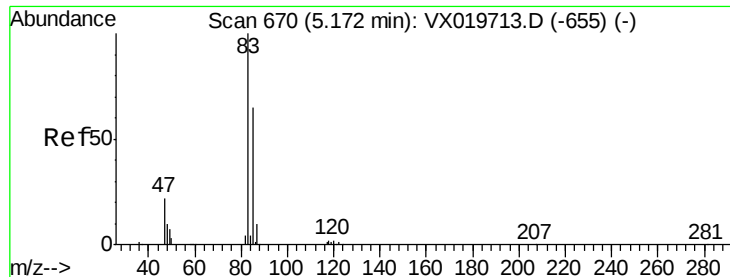
Tgt Ion: 84 Resp: 292
Ion Ratio Lower Upper
84 100
49 80.8 88.6 132.8#
51 0.0 27.0 40.6#
86 39.0 50.3 75.5#



#27
cis-1,2-Dichloroethene
Concen: 0.597 ug/l
RT: 4.55 min Scan# 568
Delta R.T. -0.01 min
Lab File: VX019831.D
Acq: 10 Dec 2020 17:27

Tgt Ion: 96 Resp: 2316
Ion Ratio Lower Upper
96 100
61 159.1 0.0 285.6
98 69.8 0.0 129.6





#30

Chloroform

Concen: 0.262 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

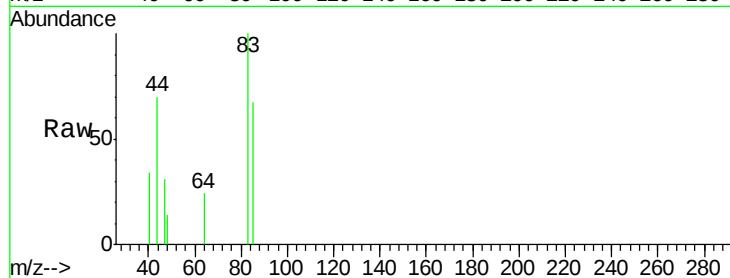
RE117D1-20201208

Tgt Ion: 83 Resp: 1579

Ion Ratio Lower Upper

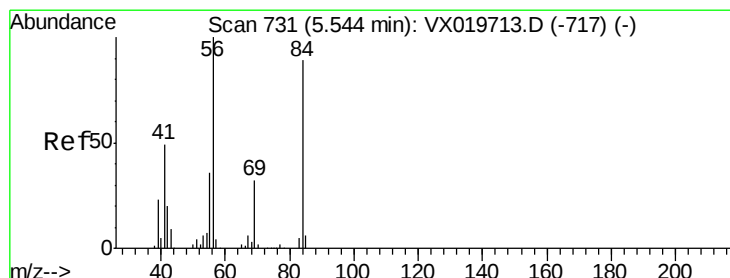
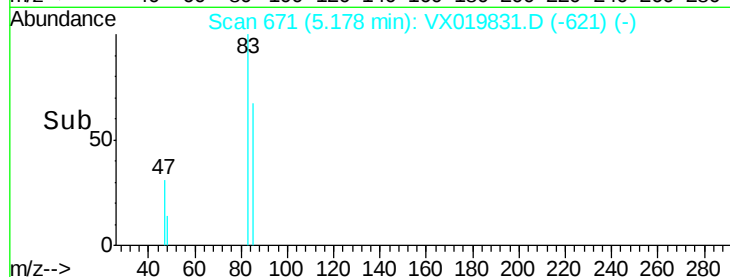
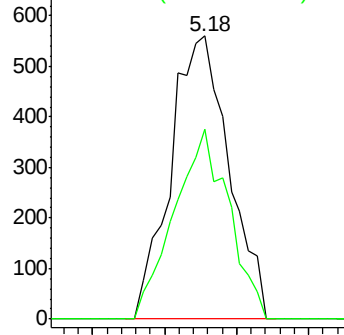
83 100

85 67.1 52.0 78.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#31

Cyclohexane

Concen: 1.166 ug/l

RT: 5.62 min Scan# 743

Delta R.T. 0.07 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

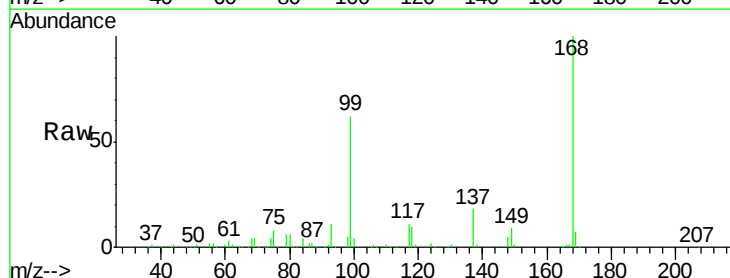
Tgt Ion: 56 Resp: 5916

Ion Ratio Lower Upper

56 100

69 199.4 25.3 37.9#

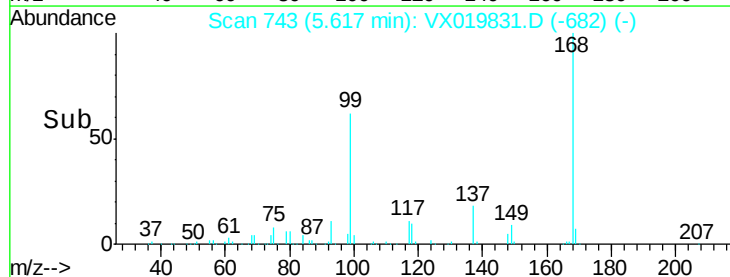
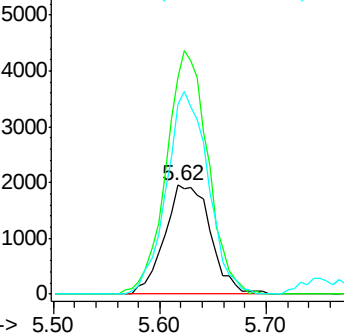
84 174.6 71.4 107.0#

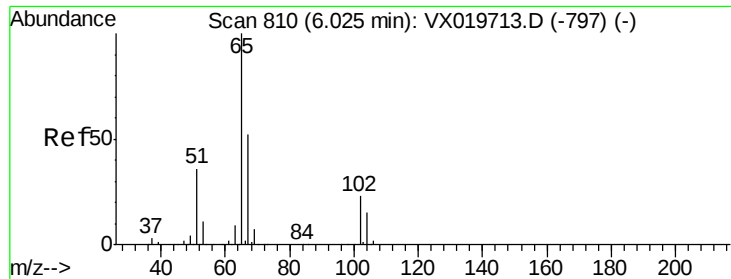


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.757 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

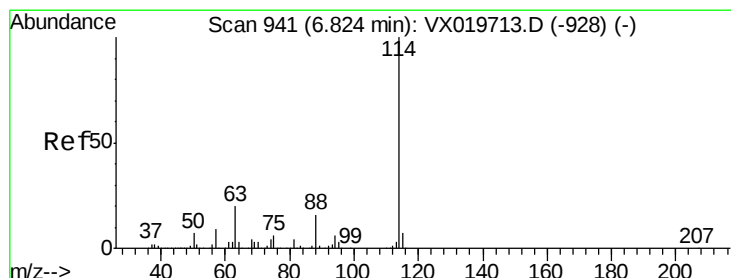
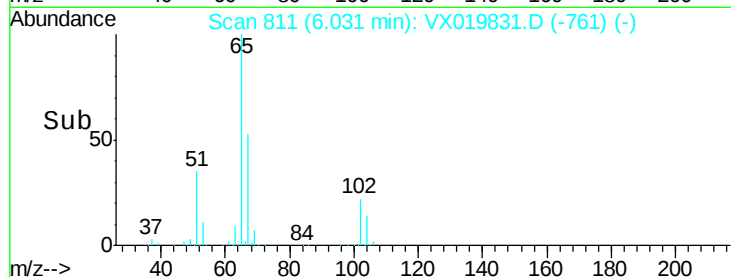
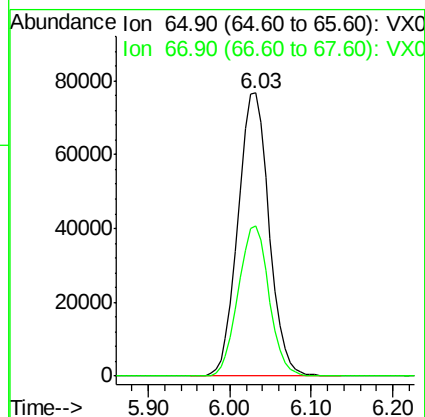
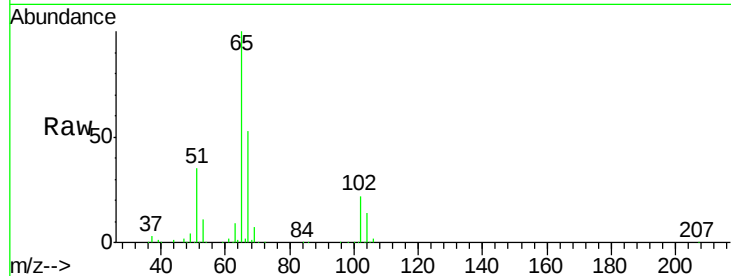
RE117D1-20201208

Tgt Ion: 65 Resp: 202955

Ion Ratio Lower Upper

65 100

67 52.7 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: VX019831.D

Acq: 10 Dec 2020 17:27

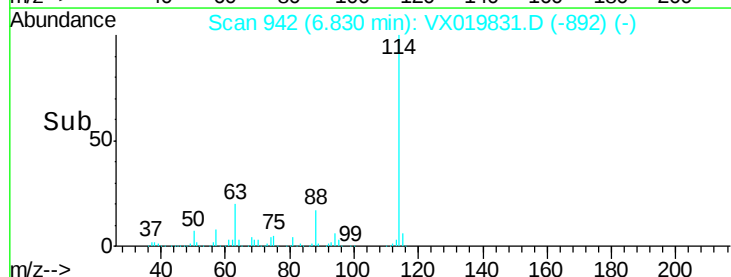
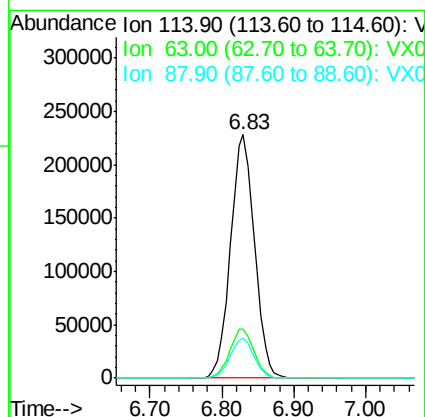
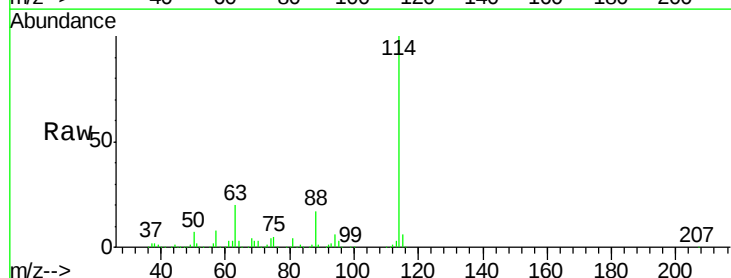
Tgt Ion: 114 Resp: 528348

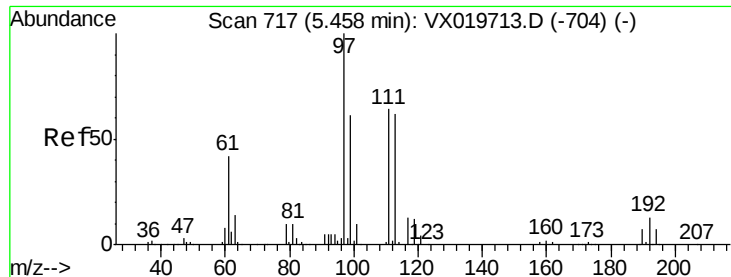
Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

88 16.5 0.0 32.8

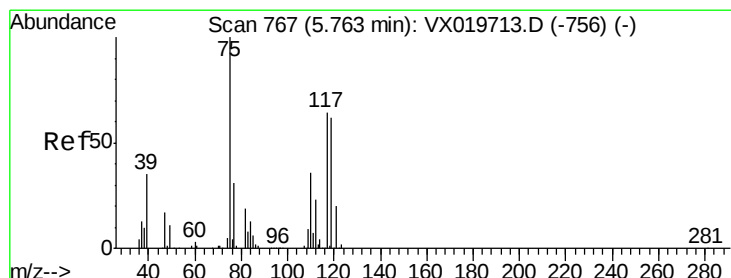
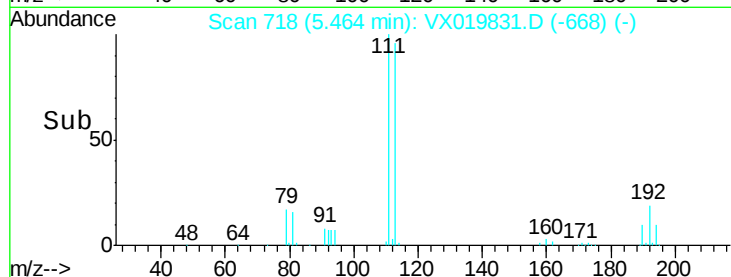
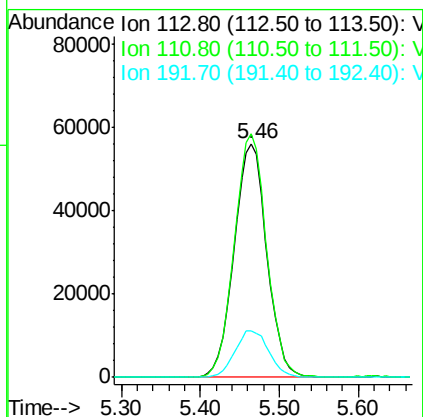
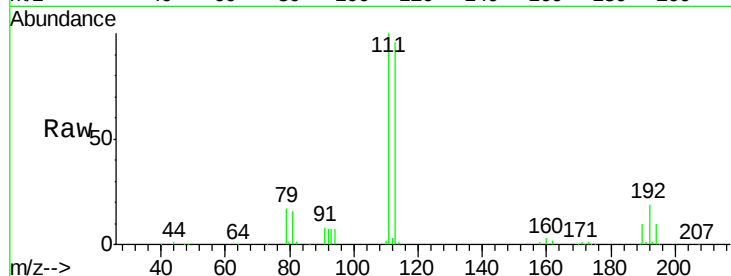




#35
 Dibromofluoromethane
 Concen: 47.226 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019831.D
 Acq: 10 Dec 2020 17:27

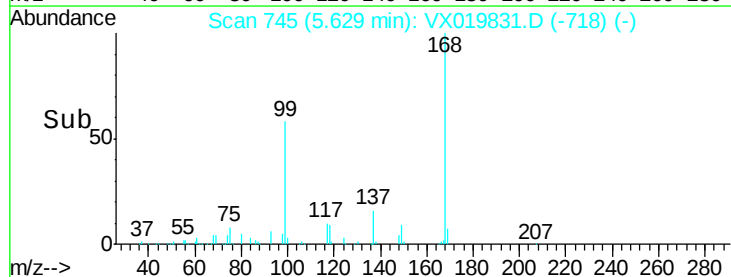
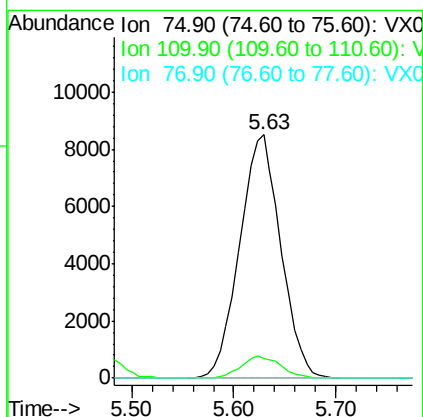
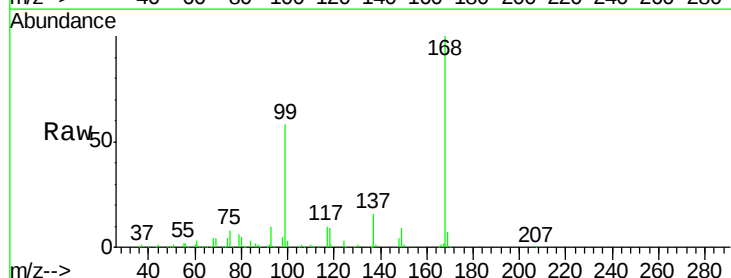
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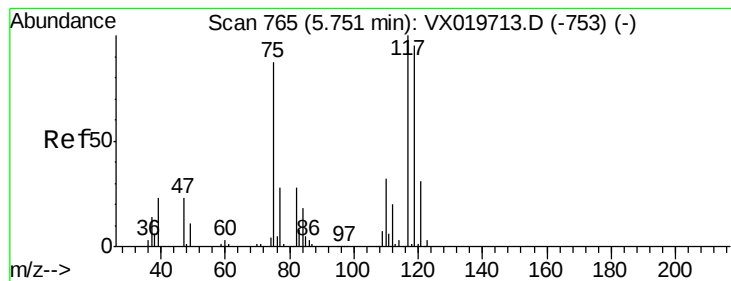
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.9	122.9
192	20.7	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.971 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019831.D
 Acq: 10 Dec 2020 17:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.4#
77	0.0	25.3	37.9#





#38

Carbon Tetrachloride

Concen: 0.980 ug/l

RT: 5.75 min Scan# 765

Delta R.T. -0.00 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20201208

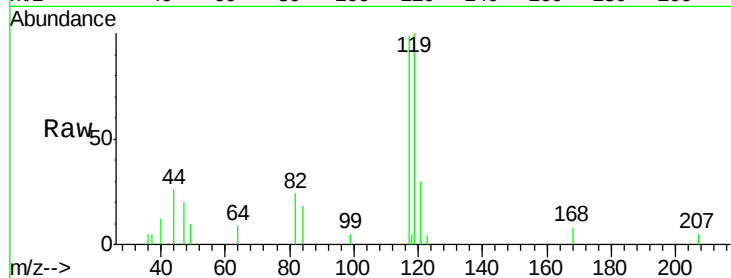
Tgt Ion:117 Resp: 4580

Ion Ratio Lower Upper

117 100

119 101.3 76.2 114.2

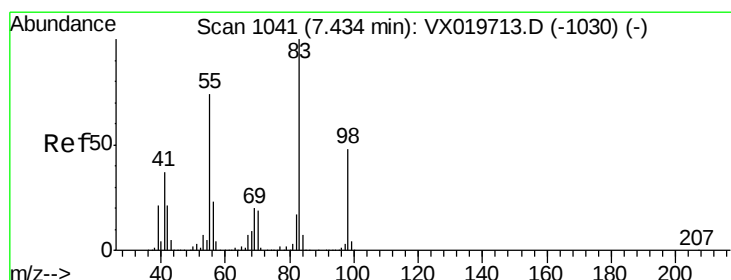
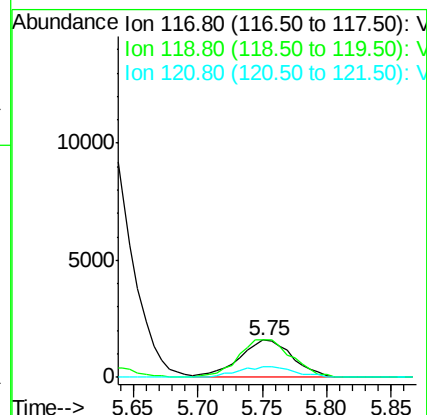
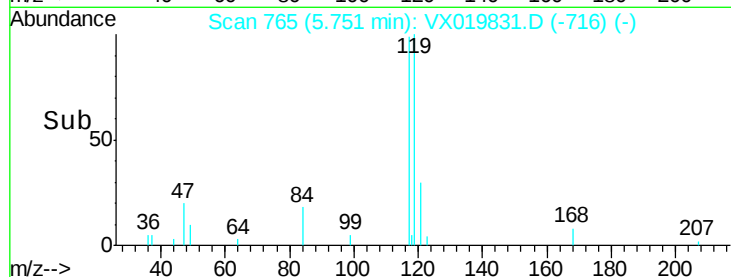
121 30.0 24.8 37.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.570 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.24 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

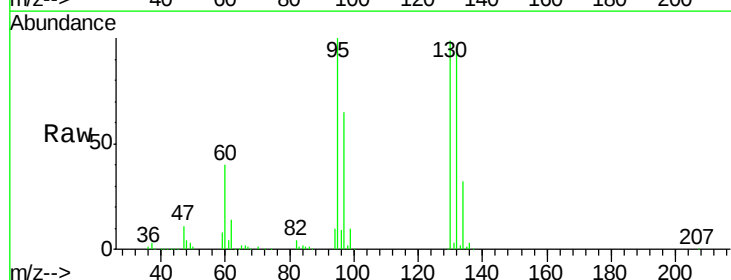
Tgt Ion: 83 Resp: 3196

Ion Ratio Lower Upper

83 100

55 0.0 58.9 88.3#

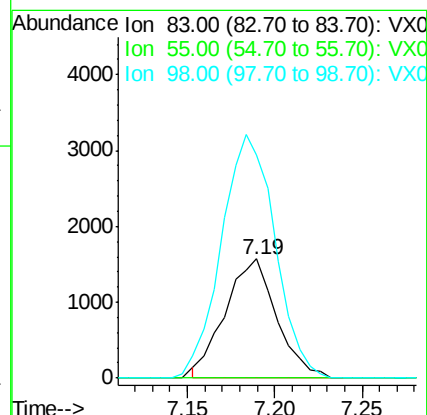
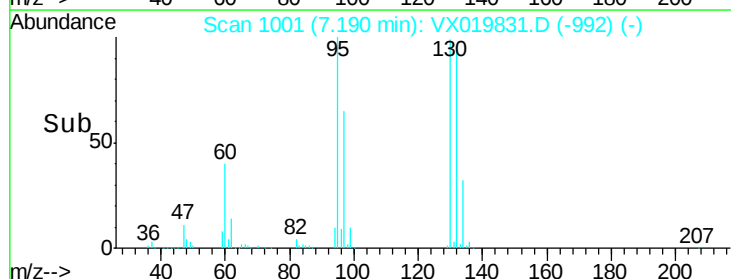
98 187.0 38.1 57.1#

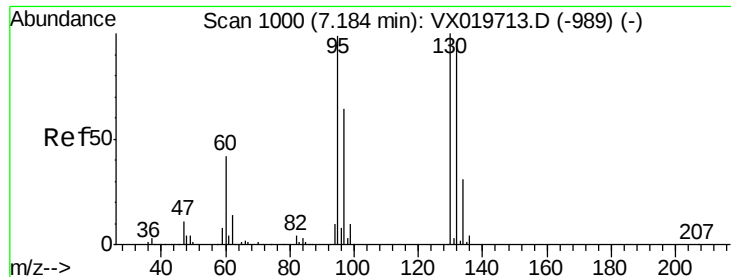


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 72.458 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

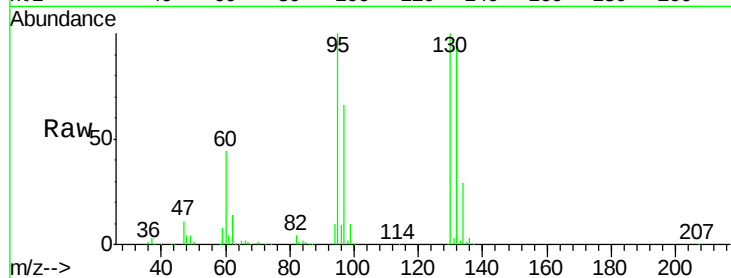
RE117D1-20201208

Tgt Ion: 130 Resp: 277264

Ion Ratio Lower Upper

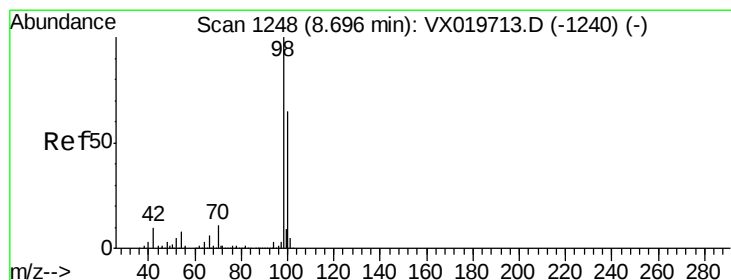
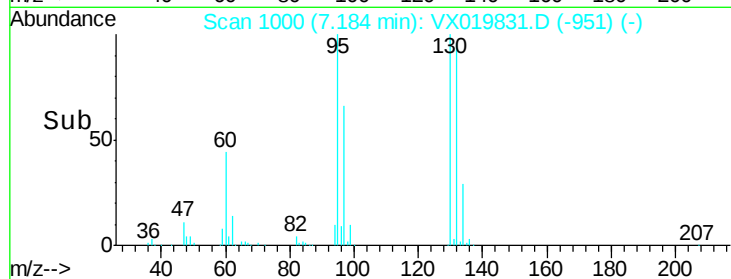
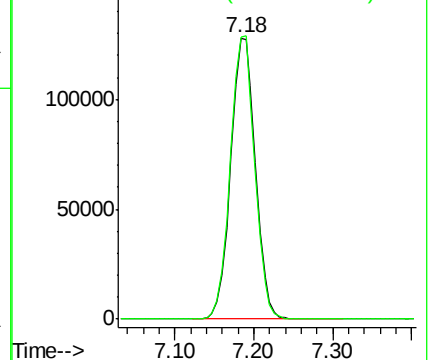
130 100

95 100.3 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.927 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019831.D

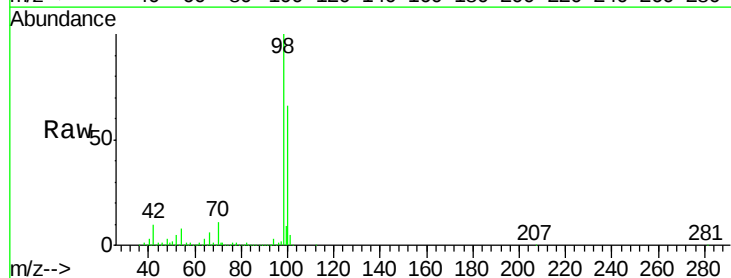
Acq: 10 Dec 2020 17:27

Tgt Ion: 98 Resp: 637826

Ion Ratio Lower Upper

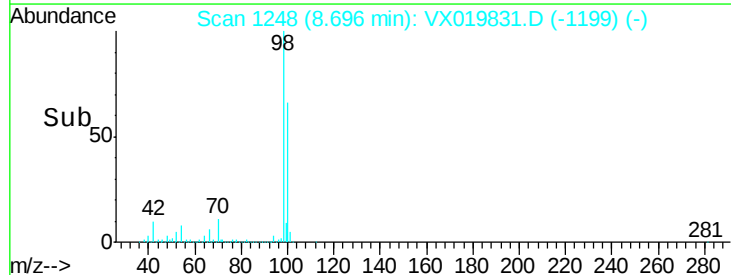
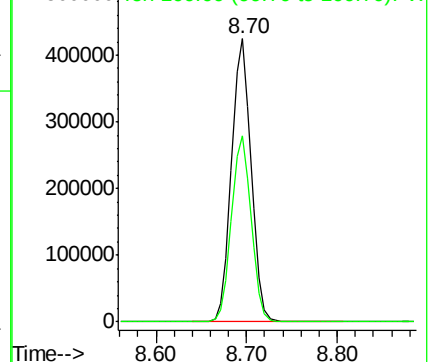
98 100

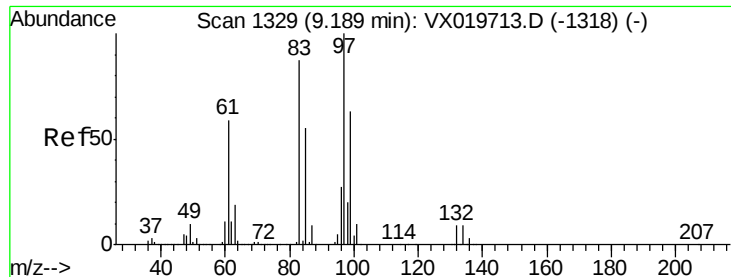
100 66.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

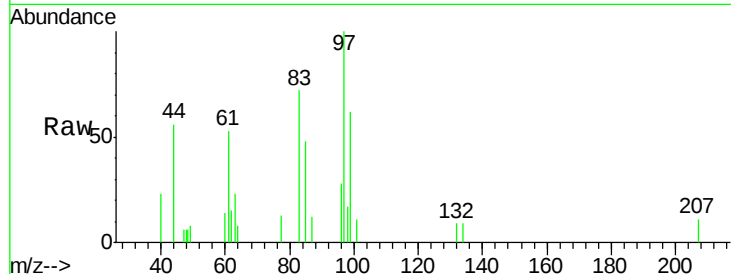




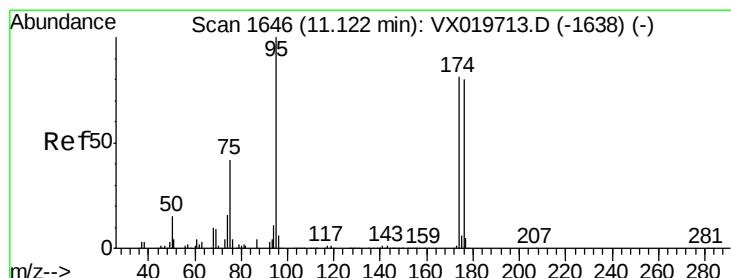
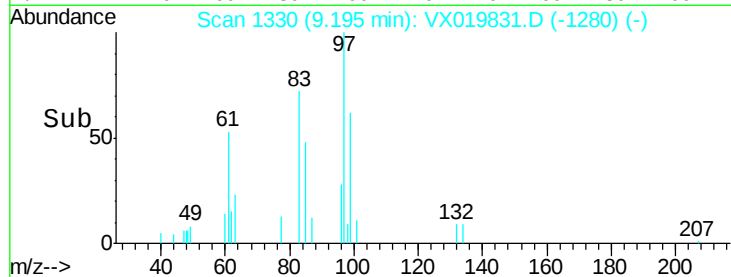
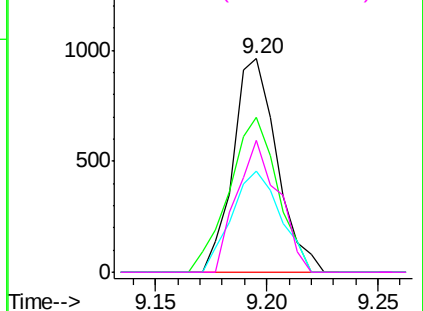
#55
 1,1,2-Trichloroethane
 Concen: 0.359 ug/l
 RT: 9.20 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: VX019831.D
 Acq: 10 Dec 2020 17:27

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20201208

Tgt Ion:	97	Resp:	1318
Ion	Ratio	Lower	Upper
97	100		
83	72.2	69.3	103.9
85	47.5	44.3	66.5
99	61.6	50.3	75.5

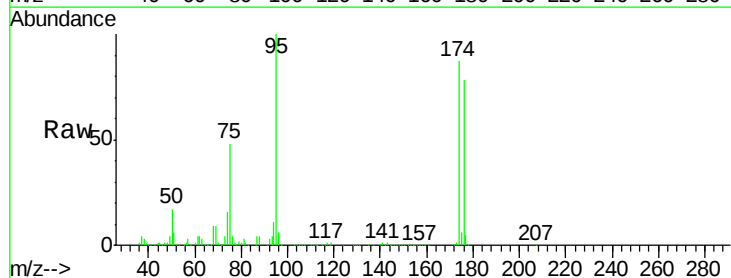


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

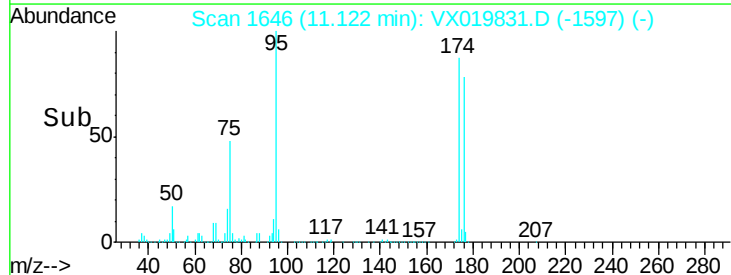
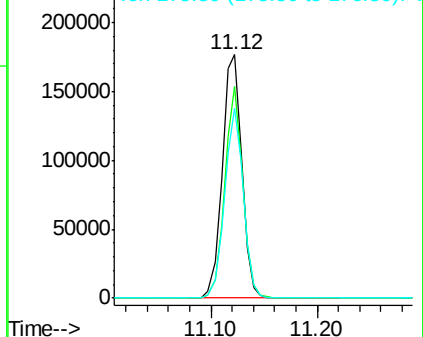


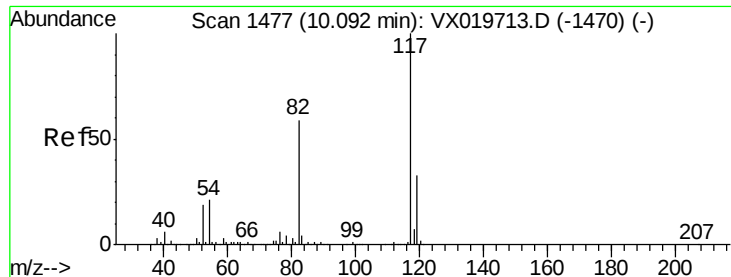
#62
 4-Bromofluorobenzene
 Concen: 45.638 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.00 min
 Lab File: VX019831.D
 Acq: 10 Dec 2020 17:27

Tgt Ion:	95	Resp:	226444
Ion	Ratio	Lower	Upper
95	100		
174	79.8	0.0	154.6
176	74.5	0.0	155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

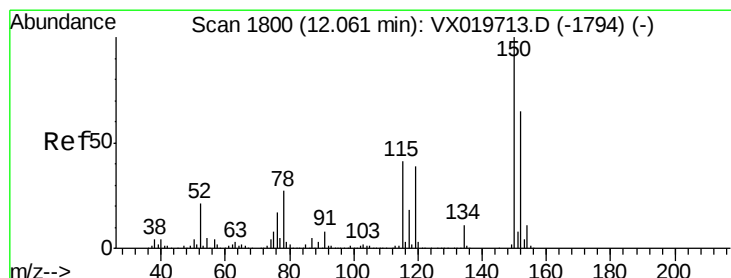
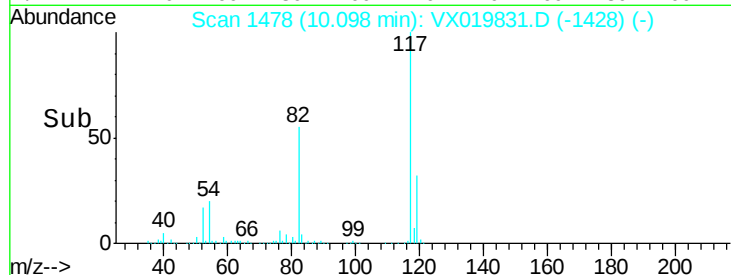
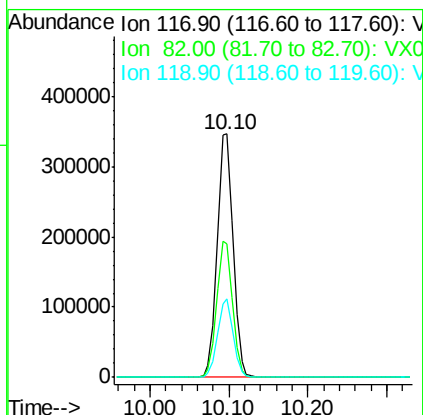
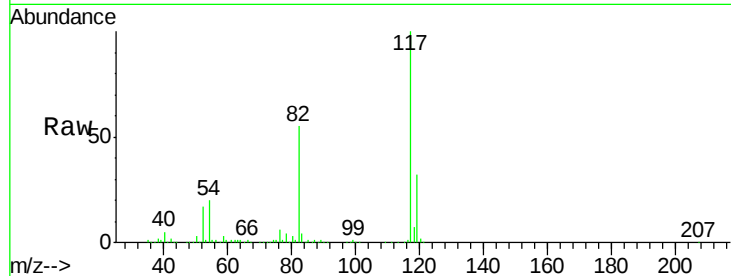




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019831.D
Acq: 10 Dec 2020 17:27

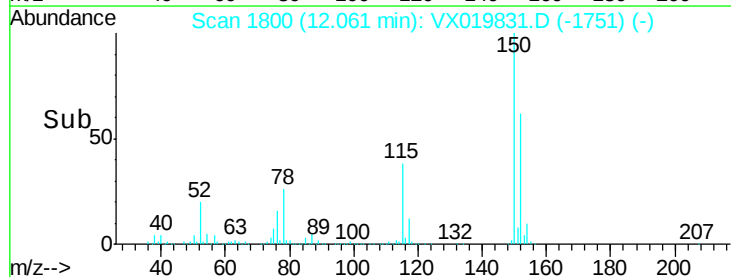
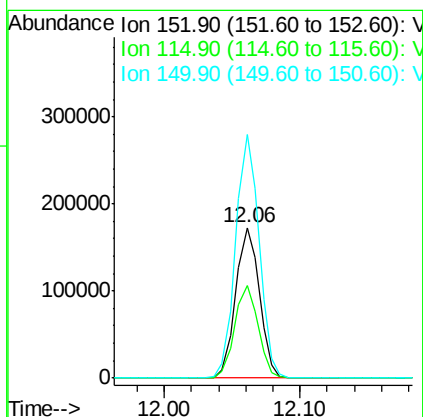
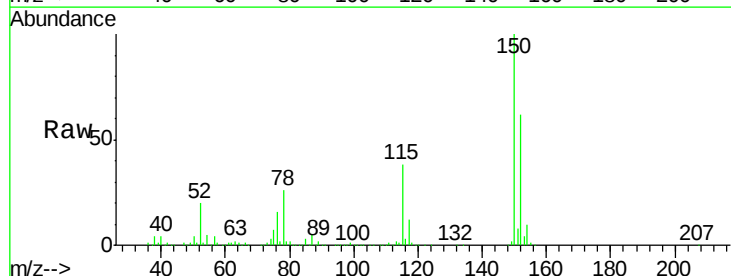
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20201208

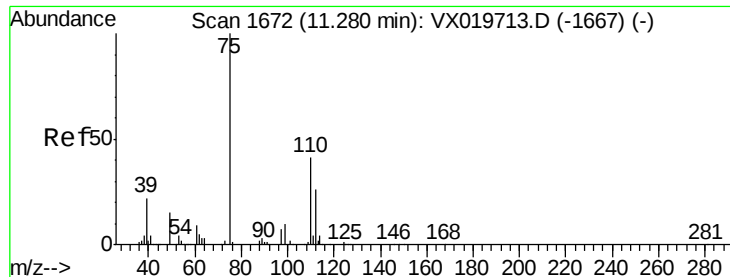
Tgt Ion:117 Resp: 488845
Ion Ratio Lower Upper
117 100
82 55.0 47.4 71.2
119 32.3 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019831.D
Acq: 10 Dec 2020 17:27

Tgt Ion:152 Resp: 210607
Ion Ratio Lower Upper
152 100
115 60.7 41.1 123.3
150 159.7 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.252 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

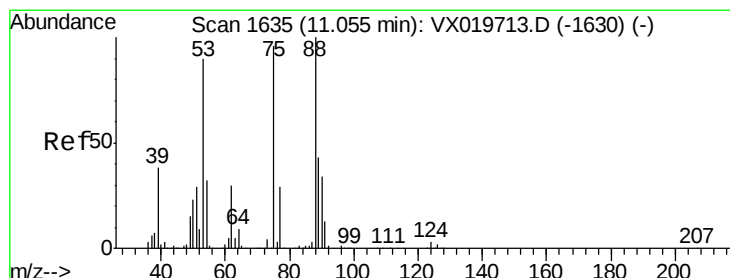
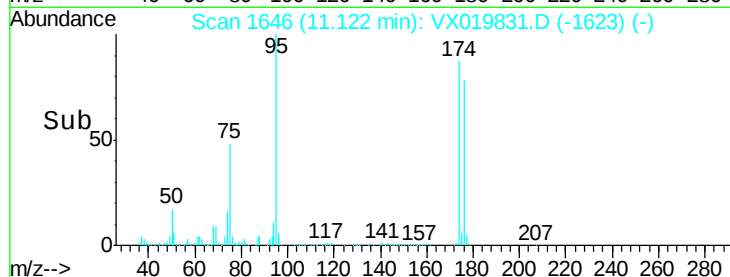
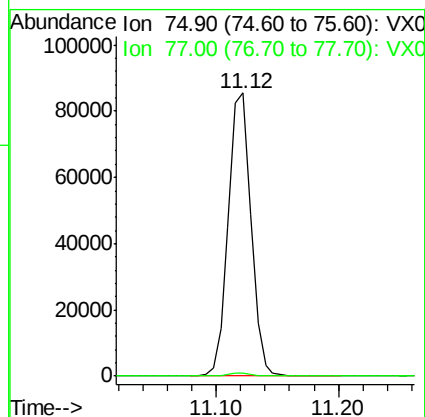
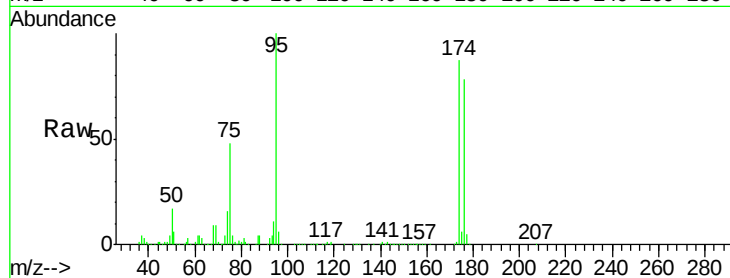
RE117D1-20201208

Tgt Ion: 75 Resp: 109832

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.217 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019831.D

Acq: 10 Dec 2020 17:27

Tgt Ion: 75 Resp: 109832

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

