

Data File : VL035338.D
Acq On : 5 Aug 2020 11:51
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Aug 05 12:51:52 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 05 09:32:28 2020
QLast Update : Wed Aug 05 09:32:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1220501	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3164615	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	3039597	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2553538	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

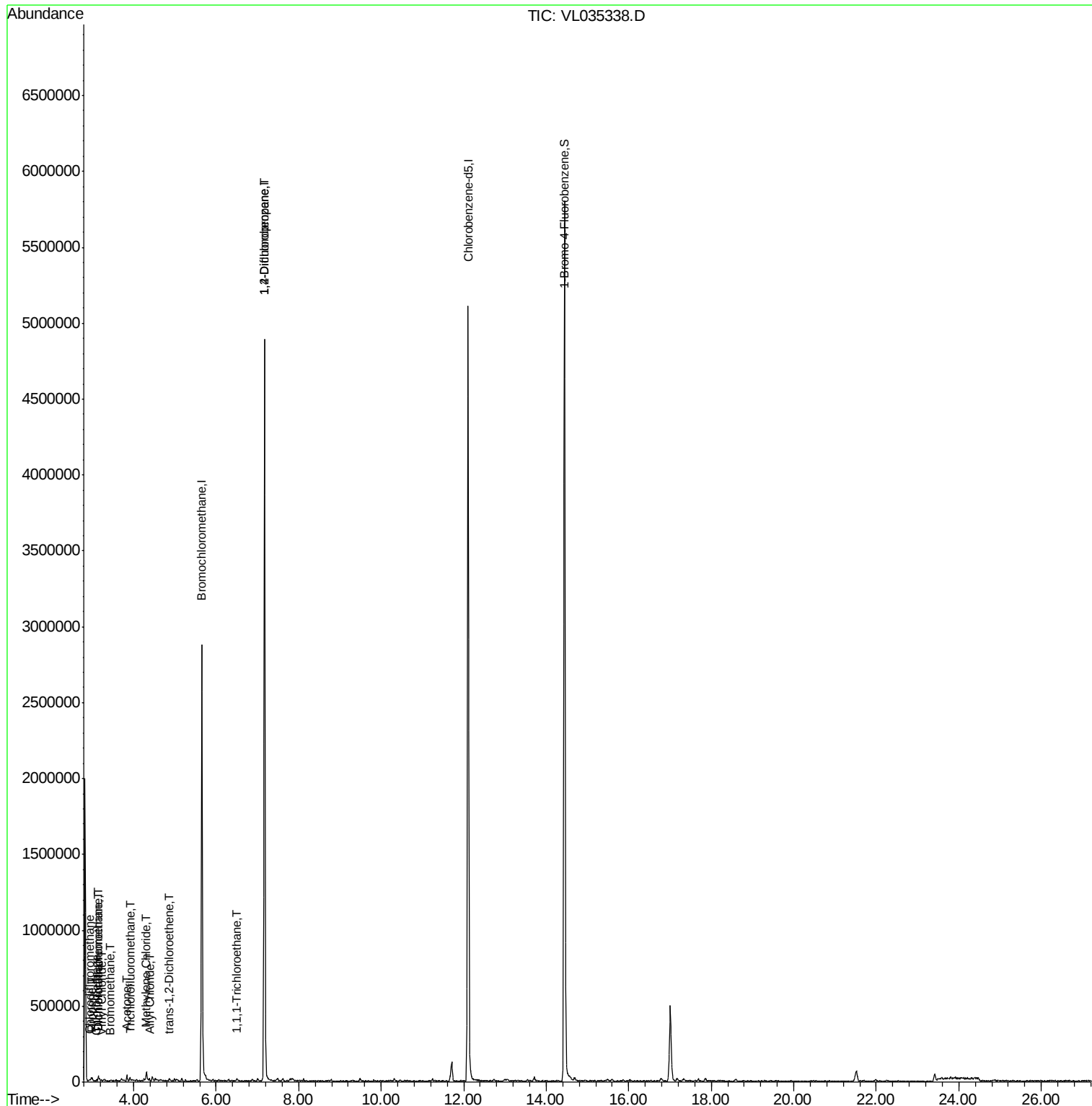
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.14	85	8715	0.055	ppbv	88
3) Chlorodifluoromethane	2.94	51	7241	0.052	ppbv #	87
4) Chloromethane	3.10	50	4555	0.057	ppbv #	86
5) Vinyl Chloride	3.21	62	2817	0.036	ppbv	98
6) Bromomethane	3.43	94	1553	0.030	ppbv	97
8) Dichlorotetrafluoroethane	3.14	85	8715	0.045	ppbv #	16
9) Propene	2.97	41	5589	0.110	ppbv #	79
11) Trichlorofluoromethane	3.91	101	10775	0.052	ppbv	87
15) Acetone	3.83	43	7865	0.045	ppbv #	49
20) Methylene Chloride	4.31	84	15359	0.191	ppbv #	85
21) Allyl Chloride	4.38	41	3714	0.037	ppbv #	29
22) trans-1,2-Dichloroethene	4.86	96	2079	0.032	ppbv #	22
32) 1,1,1-Trichloroethane	6.50	97	5959	0.031	ppbv #	63
39) 1,2-Dichloropropane	7.17	63	834879	9.131	ppbv #	23

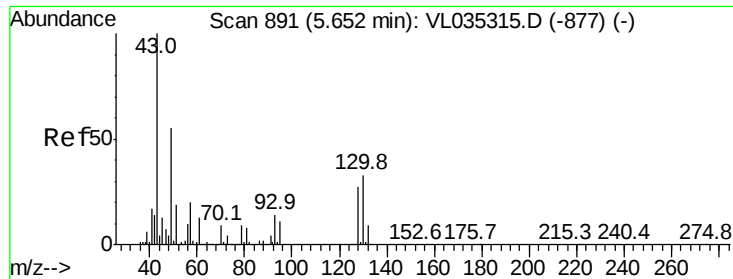
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL035338.D

Acq: 5 Aug 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

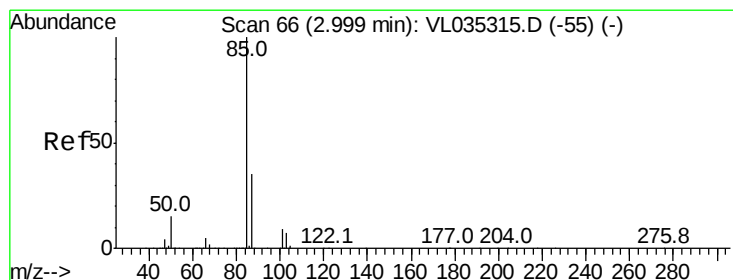
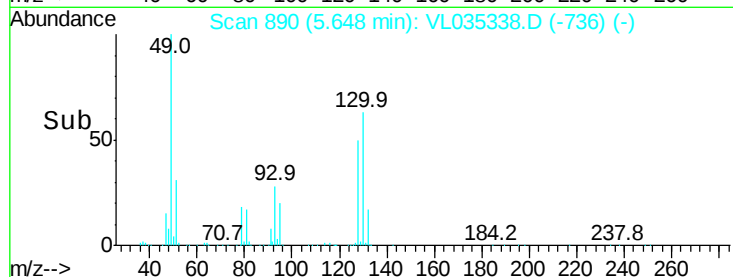
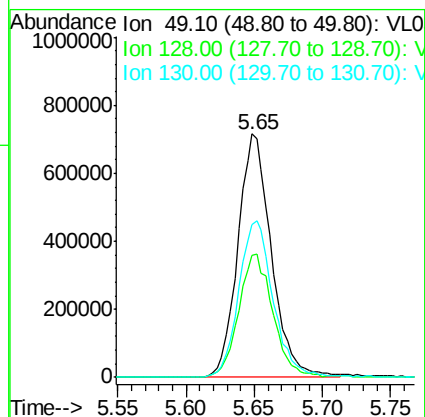
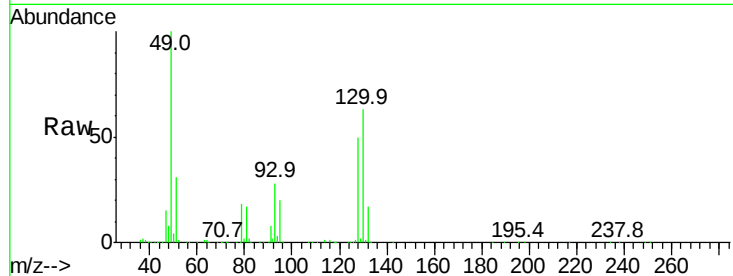
Tgt Ion: 49 Resp: 1220501

Ion Ratio Lower Upper

49 100

128 52.1 25.4 76.0

130 66.6 32.1 96.3



#2

Dichlorodifluoromethane

Concen: 0.055 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.13 min

Lab File: VL035338.D

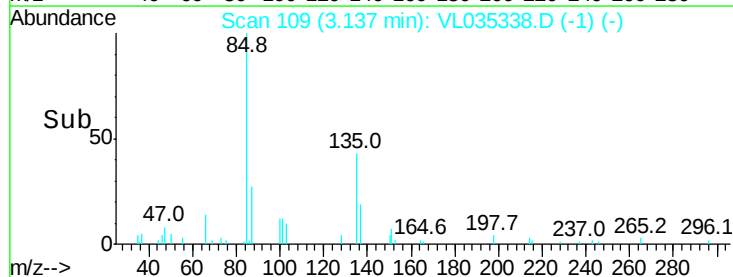
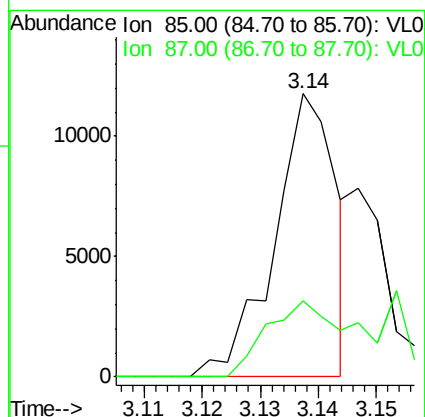
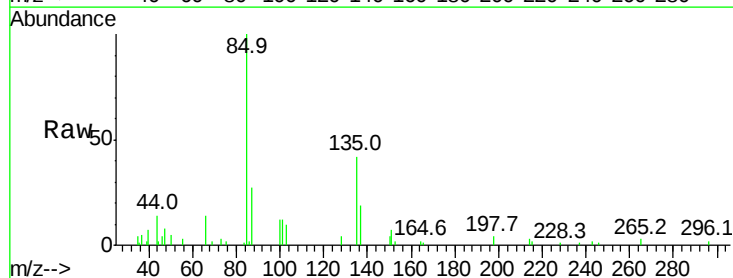
Acq: 5 Aug 2020 11:51

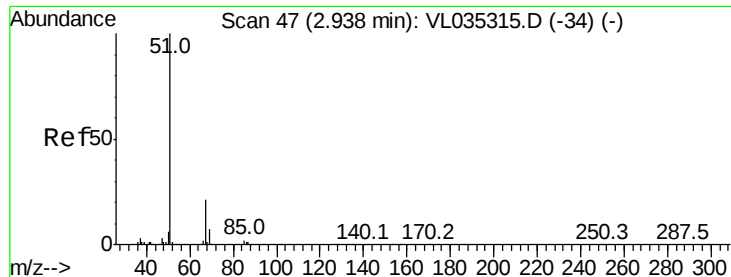
Tgt Ion: 85 Resp: 8715

Ion Ratio Lower Upper

85 100

87 26.9 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.052 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.00 min

Lab File: VL035338.D

Acq: 5 Aug 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

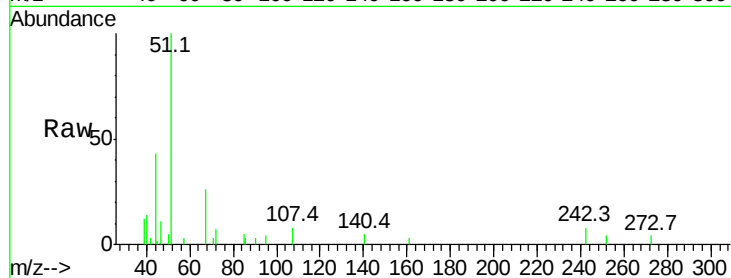
VSTDIC0.03

Tgt Ion: 51 Resp: 7241

Ion Ratio Lower Upper

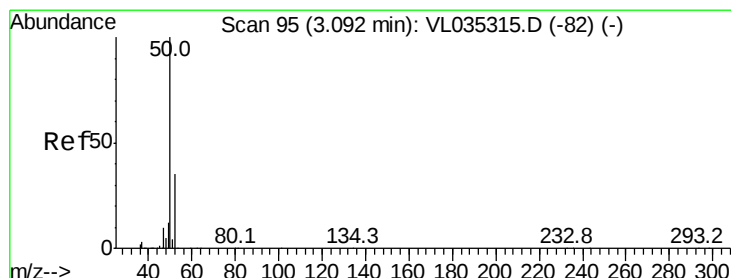
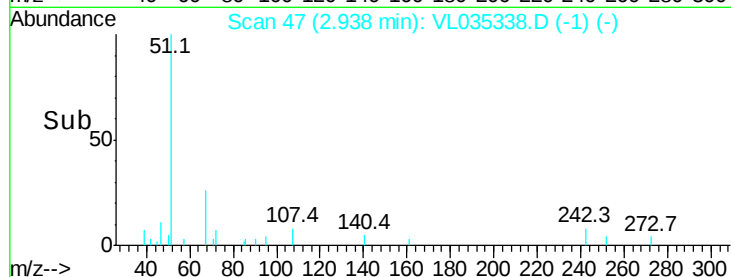
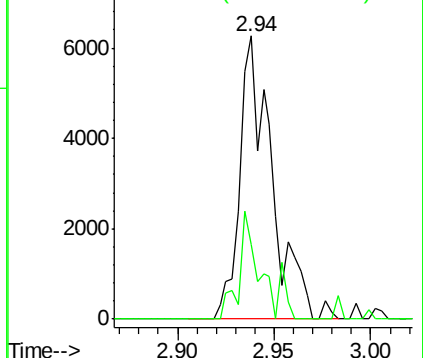
51 100

67 26.7 16.6 25.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.10 min Scan# 96

Delta R.T. 0.00 min

Lab File: VL035338.D

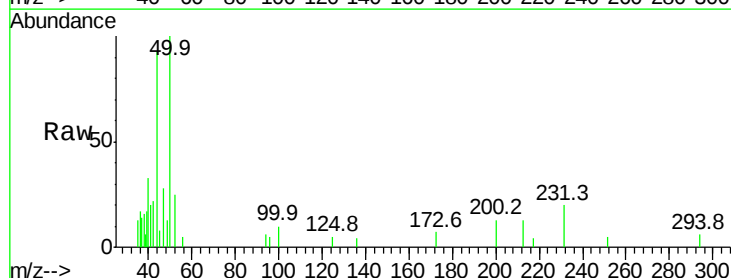
Acq: 5 Aug 2020 11:51

Tgt Ion: 50 Resp: 4555

Ion Ratio Lower Upper

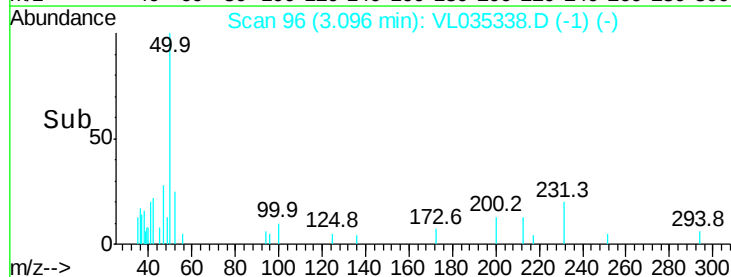
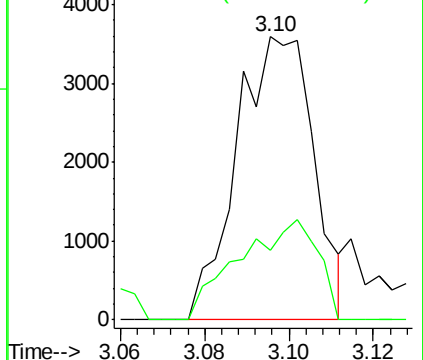
50 100

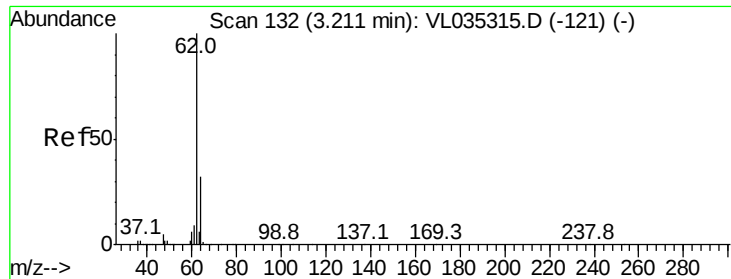
52 24.7 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.036 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035338.D

Acq: 5 Aug 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

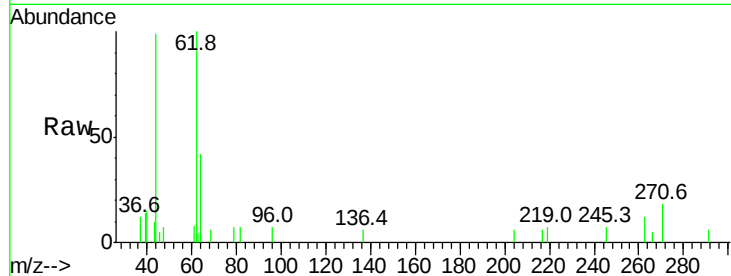
VSTDIC0.03

Tgt Ion: 62 Resp: 2817

Ion Ratio Lower Upper

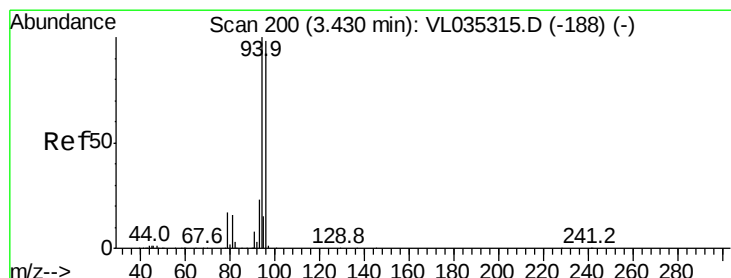
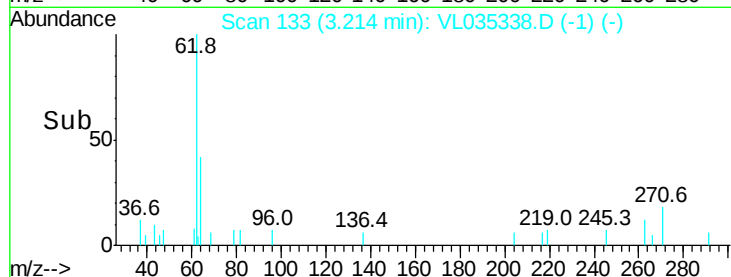
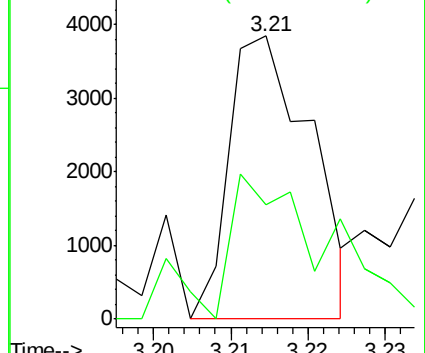
62 100

64 30.8 25.8 38.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.030 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035338.D

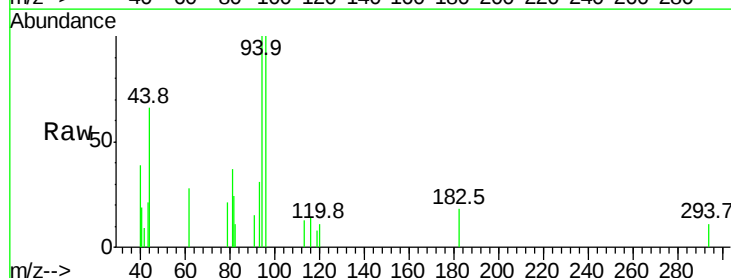
Acq: 5 Aug 2020 11:51

Tgt Ion: 94 Resp: 1553

Ion Ratio Lower Upper

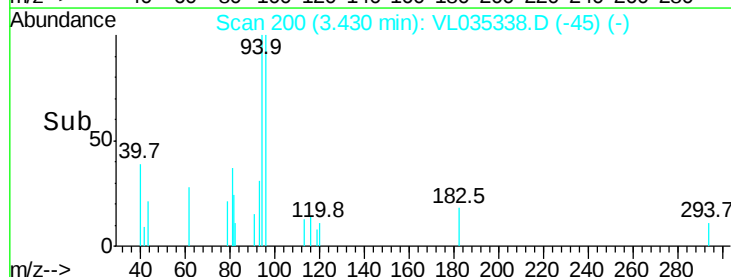
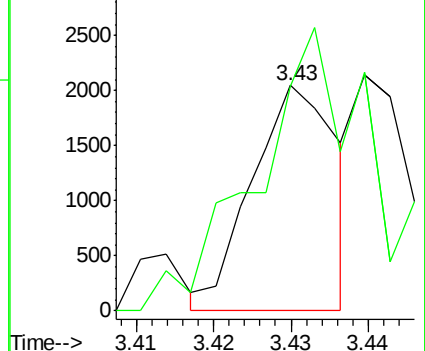
94 100

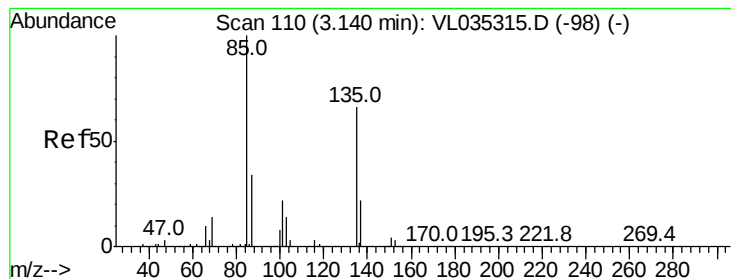
96 99.3 77.3 115.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.045 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL035338.D

Acq: 5 Aug 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

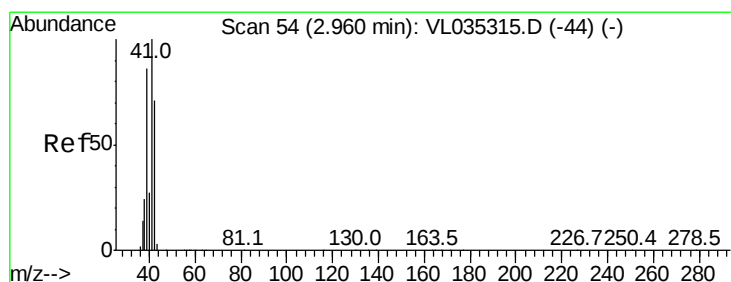
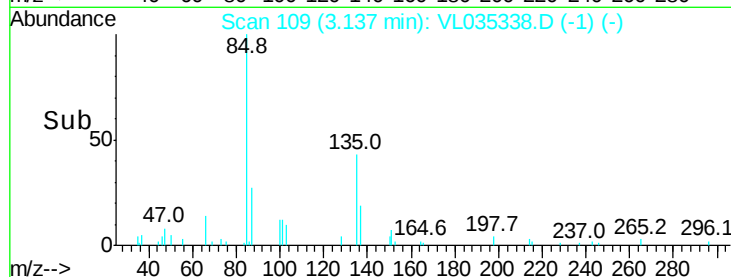
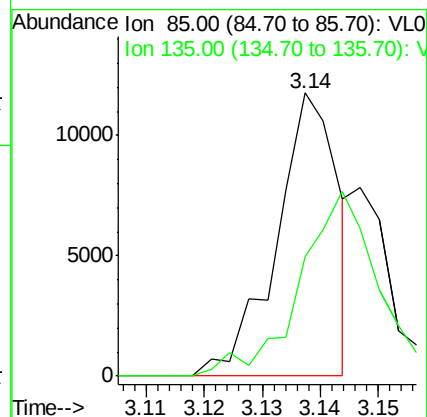
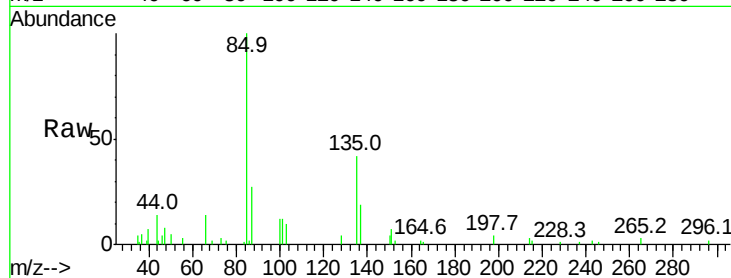
VSTDIC0.03

Tgt Ion: 85 Resp: 8715

Ion Ratio Lower Upper

85 100

135 0.0 54.5 81.7#



#9

Propene

Concen: 0.110 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035338.D

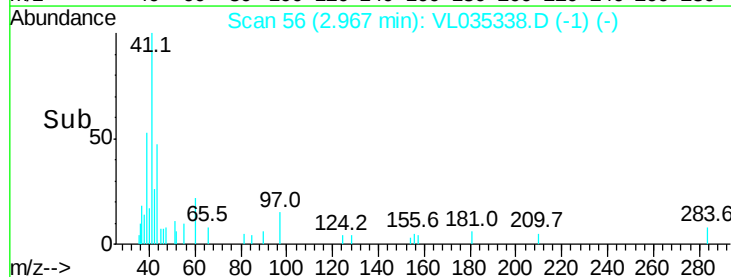
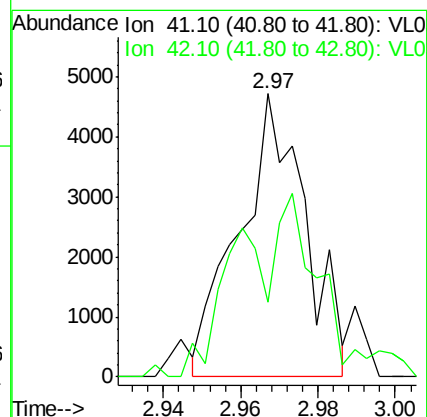
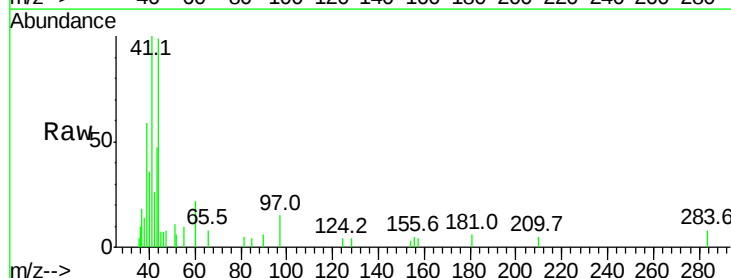
Acq: 5 Aug 2020 11:51

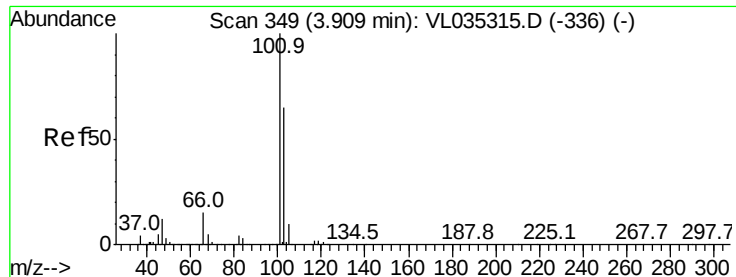
Tgt Ion: 41 Resp: 5589

Ion Ratio Lower Upper

41 100

42 86.2 55.3 82.9#





#11

Trichlorofluoromethane

Concen: 0.052 ppbv

RT: 3.91 min Scan# 350

Delta R.T. -0.00 min

Lab File: VL035338.D

Acq: 5 Aug 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

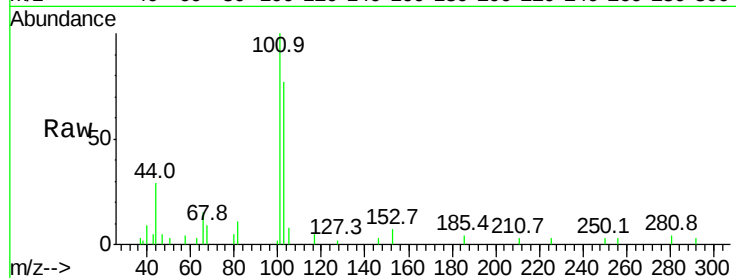
VSTDIC0.03

Tgt Ion:101 Resp: 10775

Ion Ratio Lower Upper

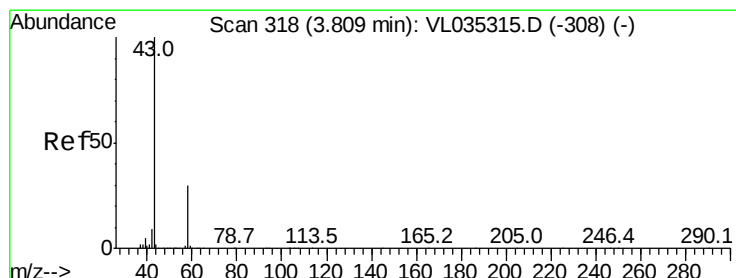
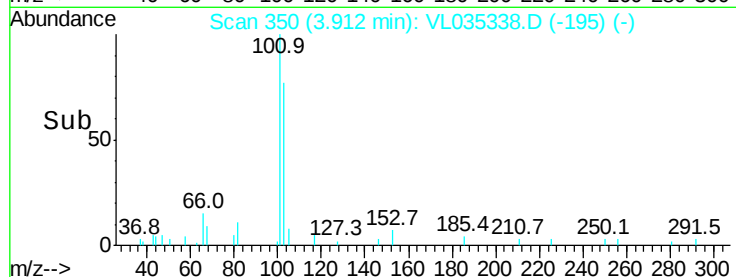
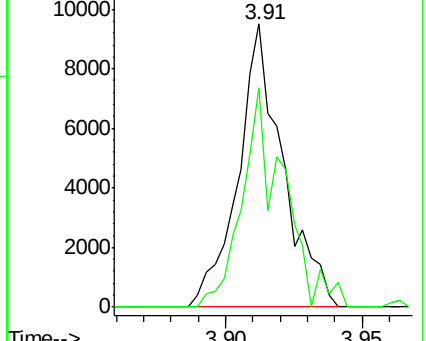
101 100

103 77.5 53.8 80.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#15

Acetone

Concen: 0.045 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL035338.D

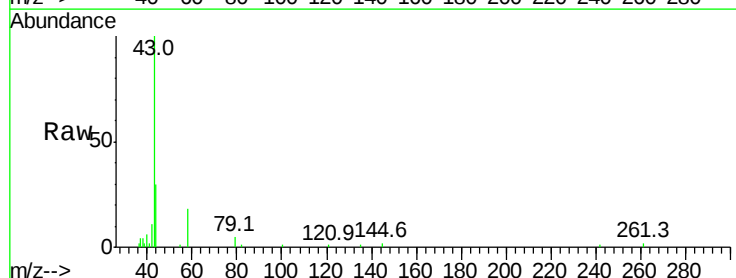
Acq: 5 Aug 2020 11:51

Tgt Ion: 43 Resp: 7865

Ion Ratio Lower Upper

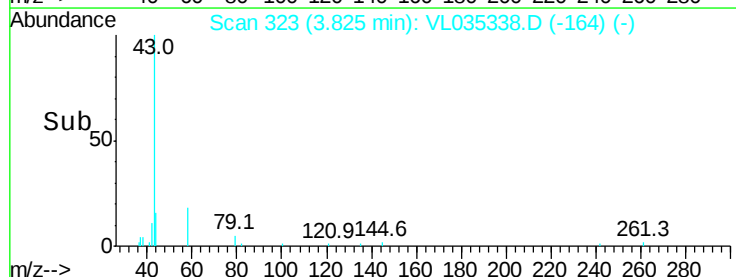
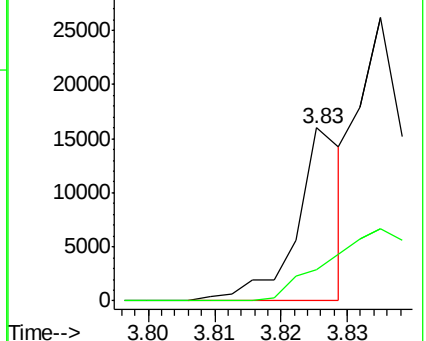
43 100

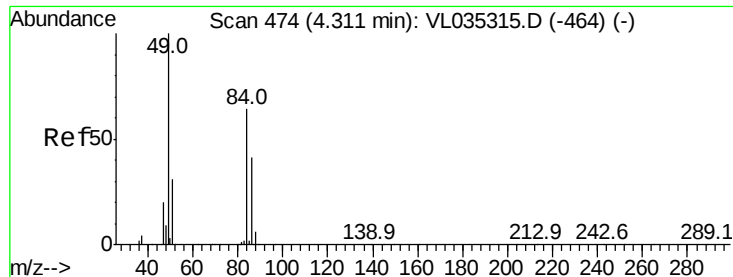
58 0.0 21.0 31.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

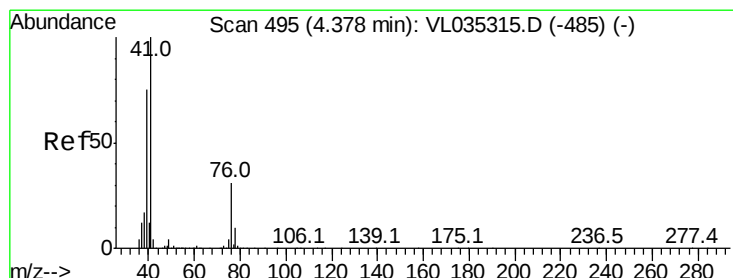
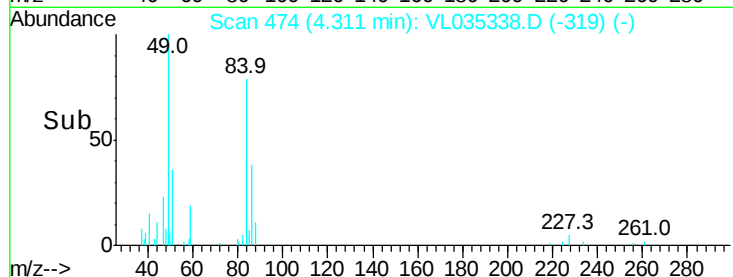
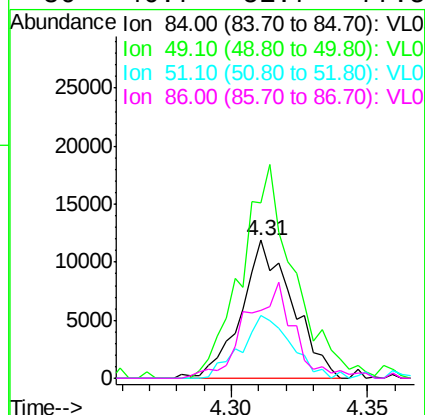
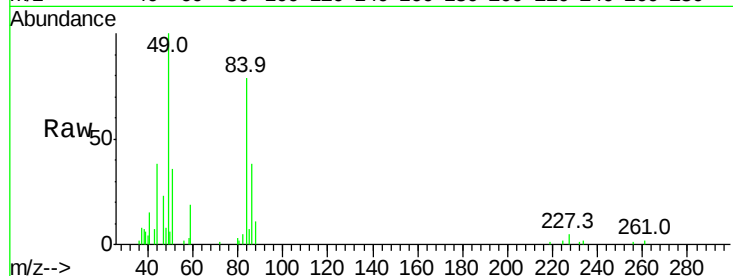




#20
Methylene Chloride
Concen: 0.191 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL035338.D
Acq: 5 Aug 2020 11:51

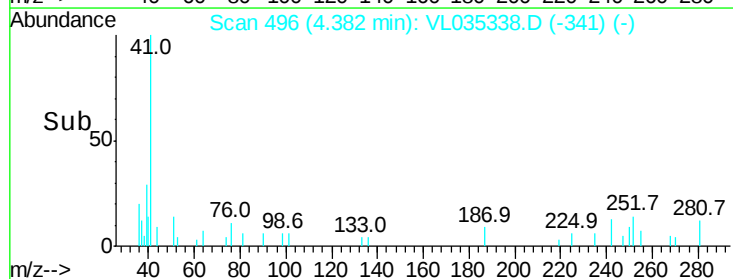
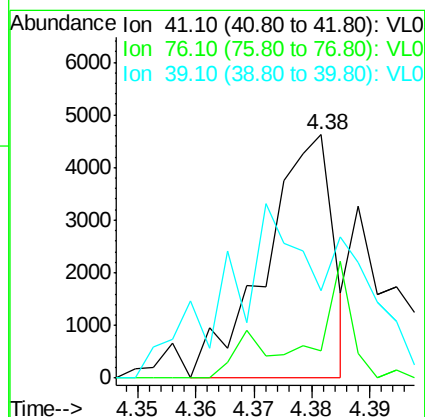
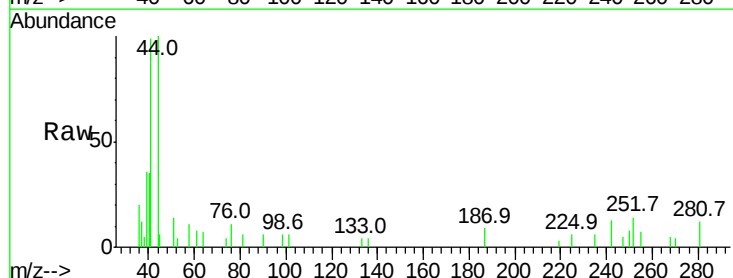
Instrument :
MSVOA_L
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VSTDIC0.03

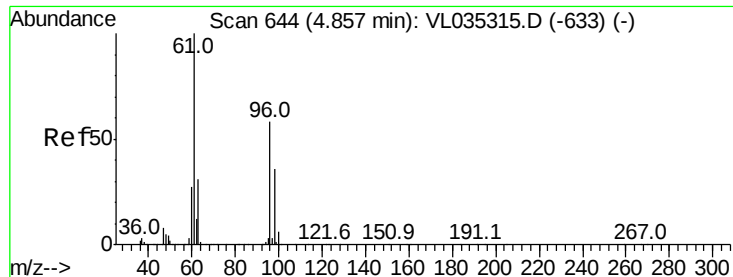
Tgt Ion: 84 Resp: 15359
Ion Ratio Lower Upper
84 100
49 134.8 122.8 184.2
51 45.7 40.1 60.1
86 46.7 51.7 77.5#



#21
Allyl Chloride
Concen: 0.037 ppbv
RT: 4.38 min Scan# 496
Delta R.T. -0.00 min
Lab File: VL035338.D
Acq: 5 Aug 2020 11:51

Tgt Ion: 41 Resp: 3714
Ion Ratio Lower Upper
41 100
76 0.0 23.8 35.6#
39 149.4 65.0 97.6#





#22

trans-1,2-Dichloroethene

Concen: 0.032 ppbv

RT: 4.86 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL035338.D

Acq: 5 Aug 2020 11:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

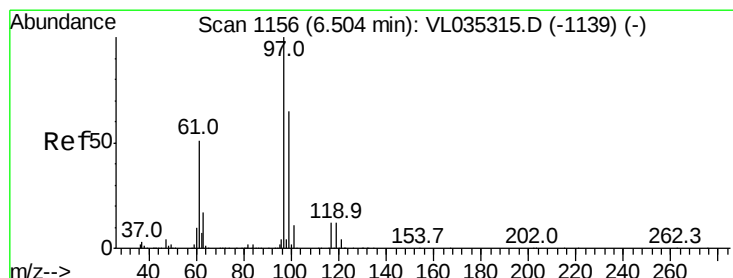
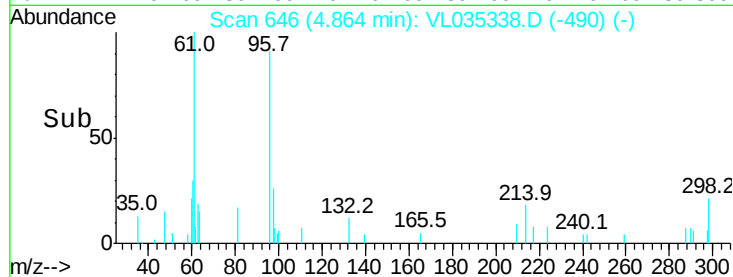
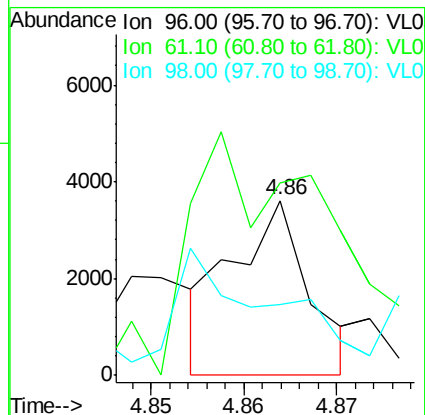
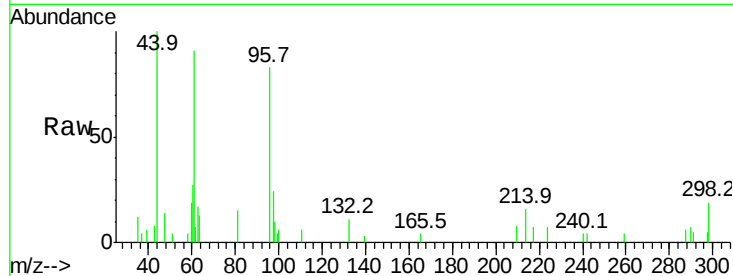
Tgt Ion: 96 Resp: 2079

Ion Ratio Lower Upper

96 100

61 49.4 138.5 207.7#

98 28.8 54.3 81.5#



#32

1,1,1-Trichloroethane

Concen: 0.031 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VL035338.D

Acq: 5 Aug 2020 11:51

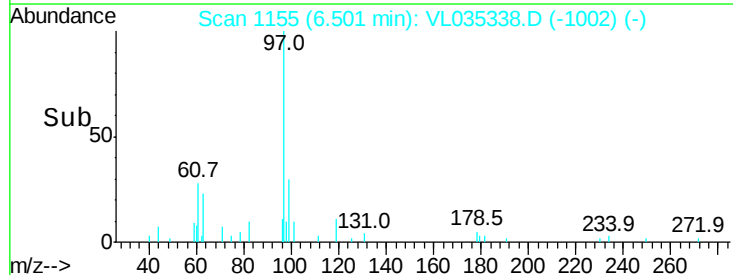
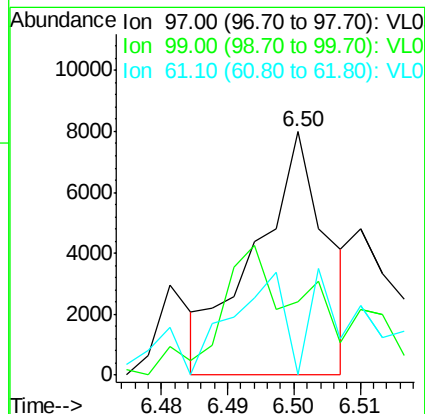
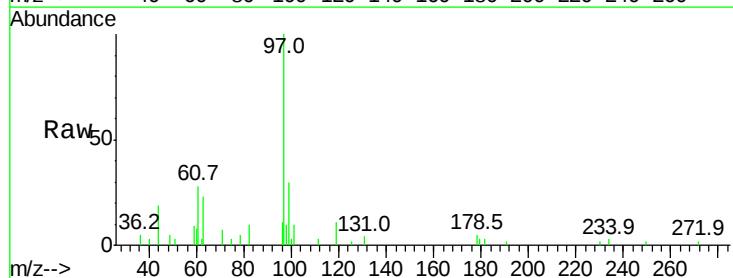
Tgt Ion: 97 Resp: 5959

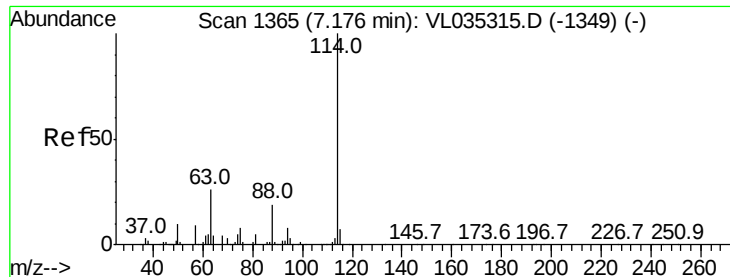
Ion Ratio Lower Upper

97 100

99 94.6 52.2 78.4#

61 77.1 40.9 61.3#

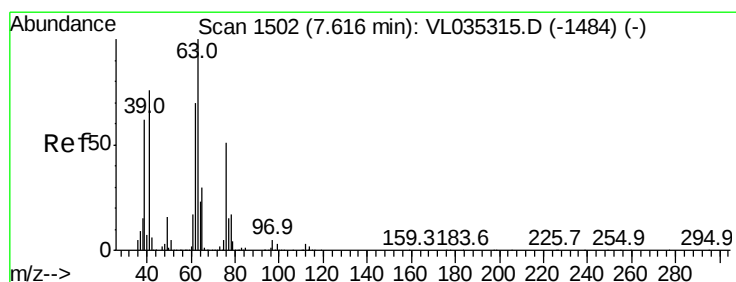
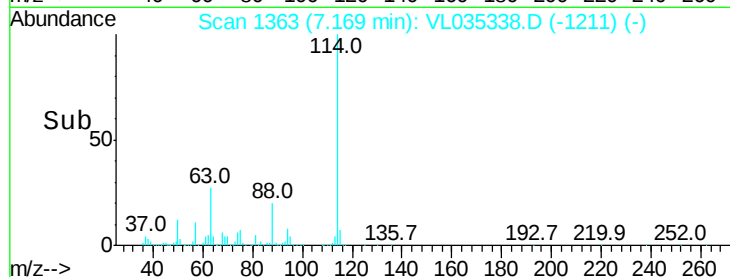
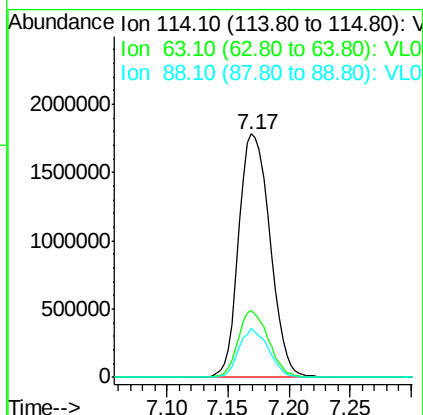
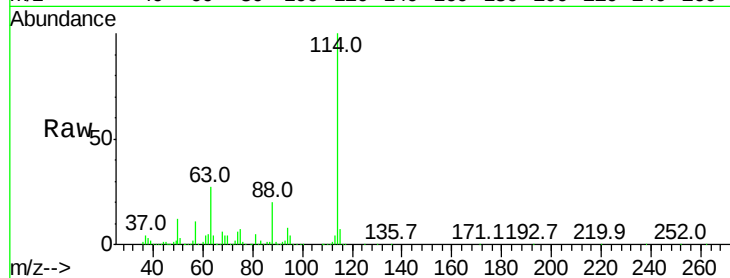




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL035338.D
 Acq: 5 Aug 2020 11:51

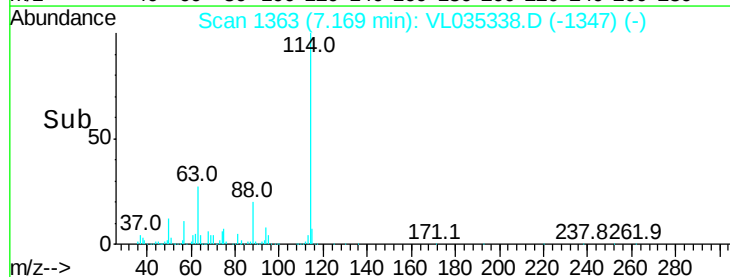
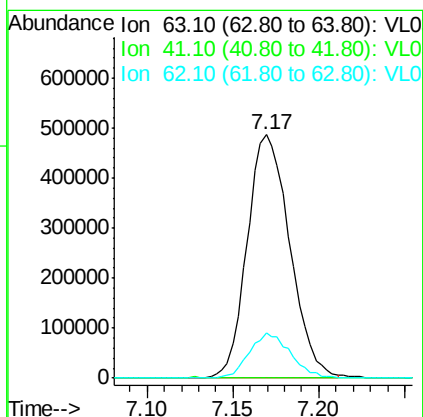
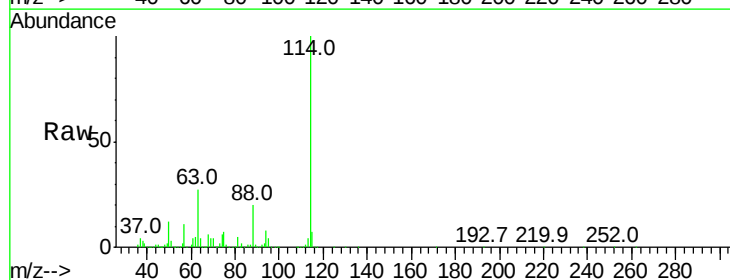
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

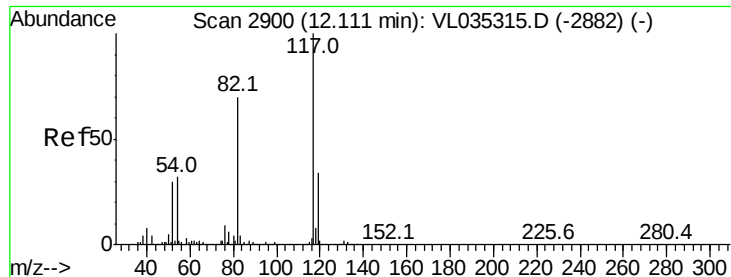
Tgt Ion: 114 Resp: 3164615
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.3 31.9
 88 18.8 15.3 22.9



#39
 1,2-Dichloropropane
 Concen: 9.131 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL035338.D
 Acq: 5 Aug 2020 11:51

Tgt Ion: 63 Resp: 834879
 Ion Ratio Lower Upper
 63 100
 41 0.2 64.4 96.6#
 62 18.7 52.6 78.8#

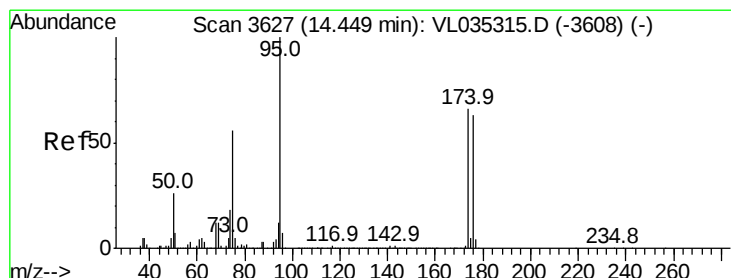
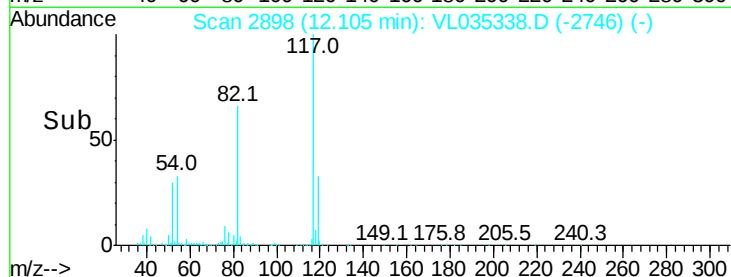
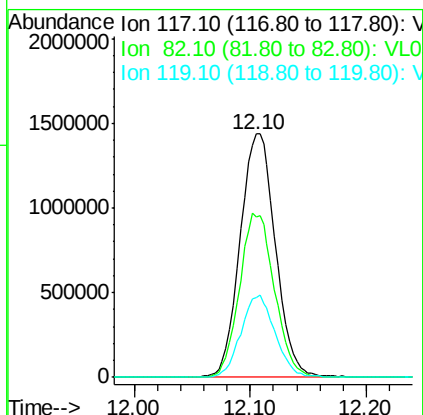
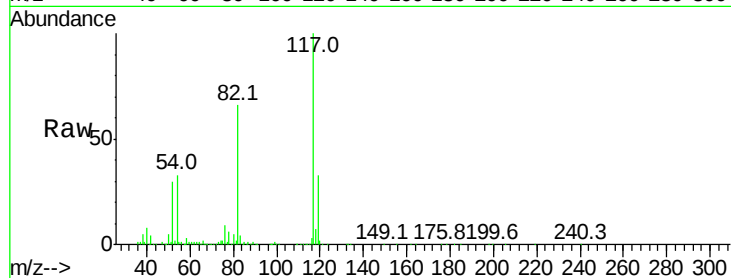




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035338.D
Acq: 5 Aug 2020 11:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 117 Resp: 3039597
Ion Ratio Lower Upper
117 100
82 66.8 51.0 76.4
119 32.7 24.7 37.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.029 ppbv
RT: 14.44 min Scan# 3624
Delta R.T. -0.01 min
Lab File: VL035338.D
Acq: 5 Aug 2020 11:51

Tgt Ion: 95 Resp: 2553538
Ion Ratio Lower Upper
95 100
174 66.3 53.5 80.3
175 5.0 4.2 6.2

