

Data File : VL033859.D
Acq On : 30 May 2019 6:52
Operator : SY/AP
Sample : K3067-08DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-22-20190523-ODL

Quant Time: May 30 08:09:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	714589	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1627180	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1647324	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1353034	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	11959	0.079	ppbv	94
3) Chlorodifluoromethane	3.01	51	8572	0.105	ppbv	98
4) Chloromethane	3.17	50	1802	0.038	ppbv #	77
9) Propene	3.04	41	1696	0.049	ppbv #	31
11) Trichlorofluoromethane	4.00	101	4648	0.032	ppbv	99
13) Ethanol	3.65	45	121077	10.760	ppbv	99
15) Acetone	3.90	43	77162	0.778	ppbv	98
16) 1,3-Butadiene	3.34	39	2428	0.061	ppbv #	12
17) tert-Butyl alcohol	4.37	59	2837	0.035	ppbv	99
19) Isopropyl Alcohol	4.04	45	22666	0.355	ppbv #	70
20) Methylene Chloride	4.40	84	3434	0.090	ppbv #	87
25) Ethyl Acetate	5.77	43	8615	0.049	ppbv #	64
26) Hexane	5.77	57	4466	0.060	ppbv #	1
29) Chloroform	5.83	83	16867	0.122	ppbv	94
39) 1,2-Dichloropropane	7.28	63	425461	7.710	ppbv #	23
52) Tetrachloroethene	11.37	164	48975	0.941	ppbv	90
53) Toluene	9.93	91	10836	0.068	ppbv #	21

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

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Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-22-20190523-0DL

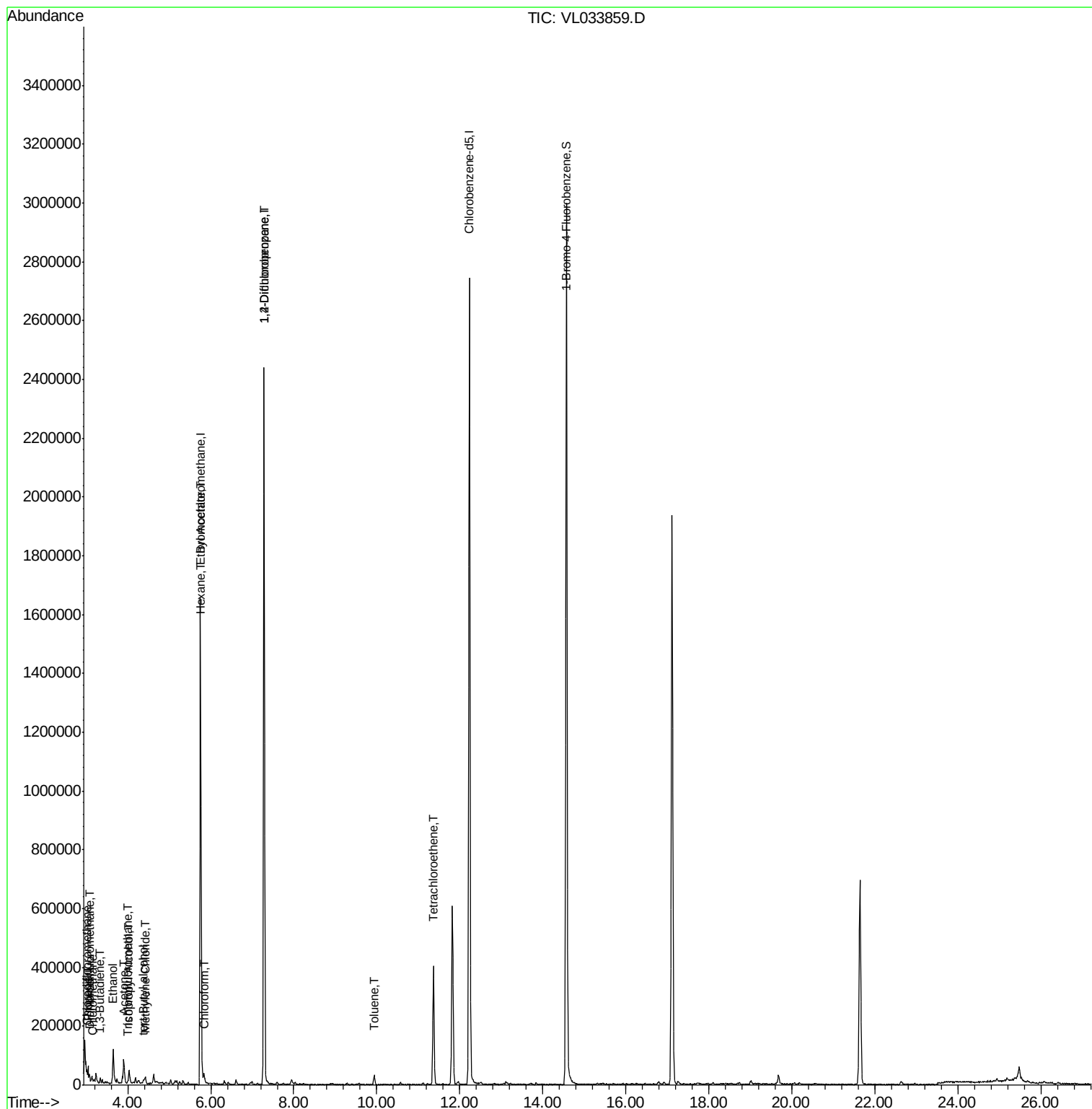
Quant Time: May 30 08:09:47 2019

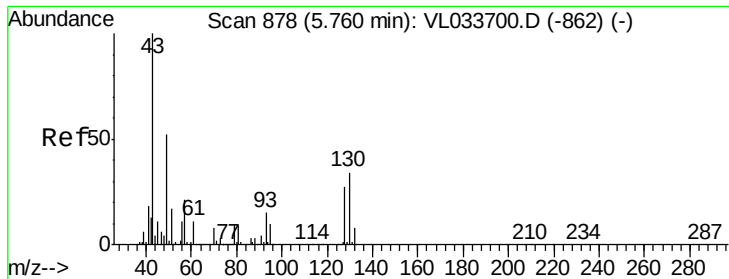
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL051719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri May 17 08:15:41 2019

QLast Update : Fri May 17 08:15:41 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033859.D

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Instrument :

MSVOA_L

ClientSampleId :

SG-22-20190523-ODL

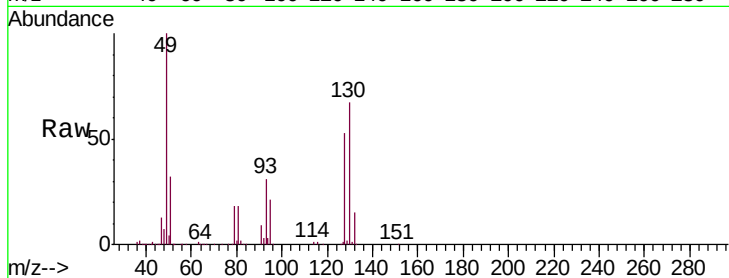
Tgt Ion: 49 Resp: 714589

Ion Ratio Lower Upper

49 100

128 50.9 25.2 75.6

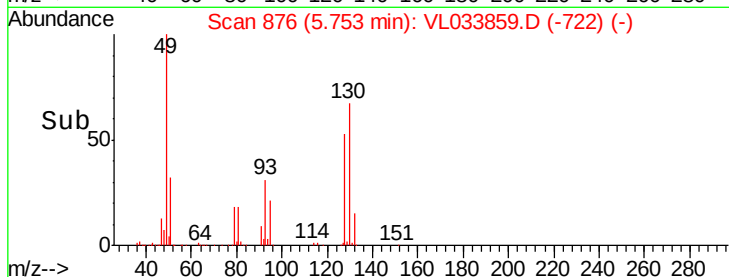
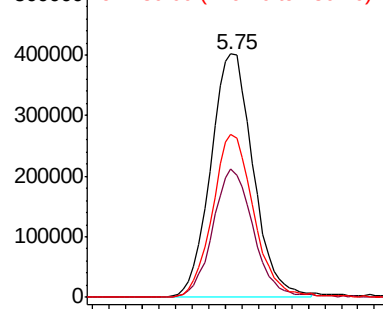
130 65.9 32.5 97.5



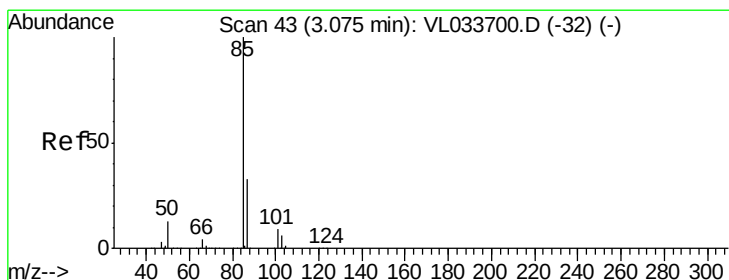
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.079 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033859.D

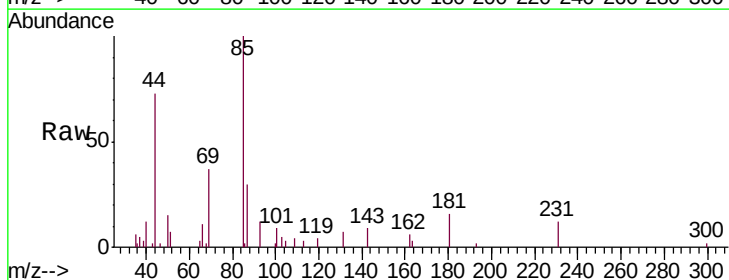
Acq: 30 May 2019 6:52

Tgt Ion: 85 Resp: 11959

Ion Ratio Lower Upper

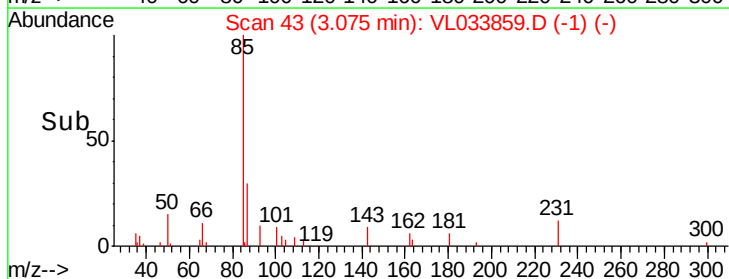
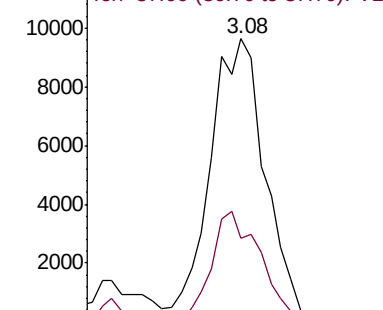
85 100

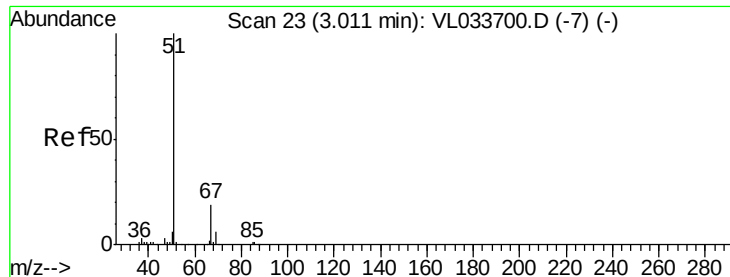
87 29.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.105 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

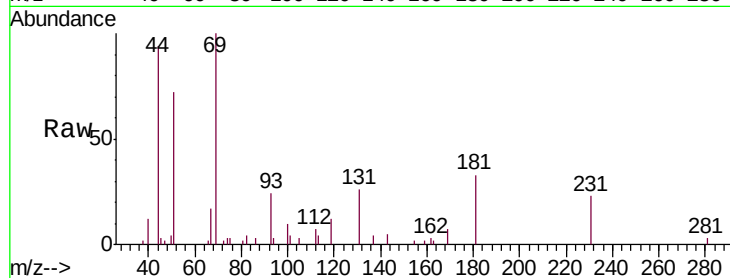
SG-22-20190523-ODL

Tgt Ion: 51 Resp: 8572

Ion Ratio Lower Upper

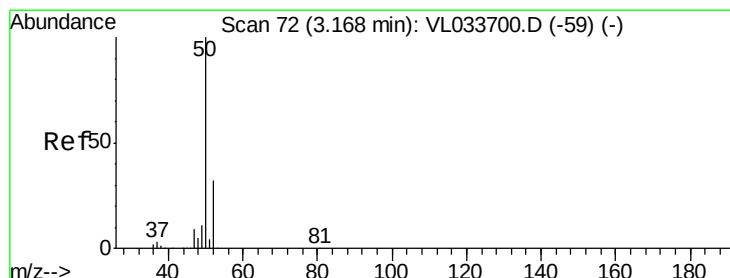
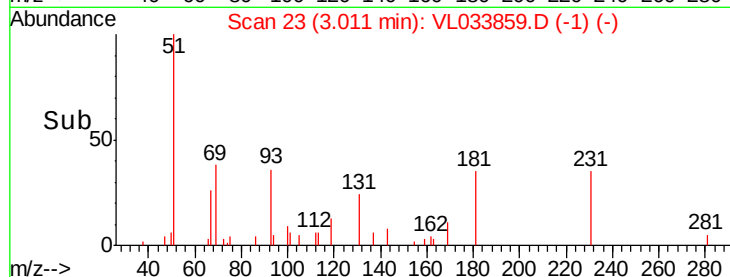
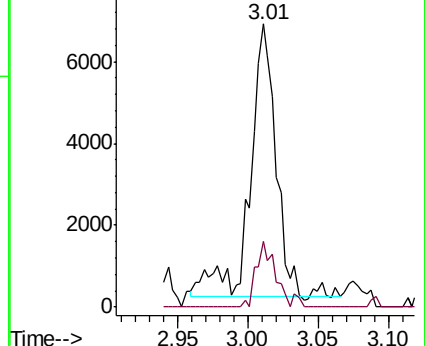
51 100

67 18.7 15.6 23.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.038 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033859.D

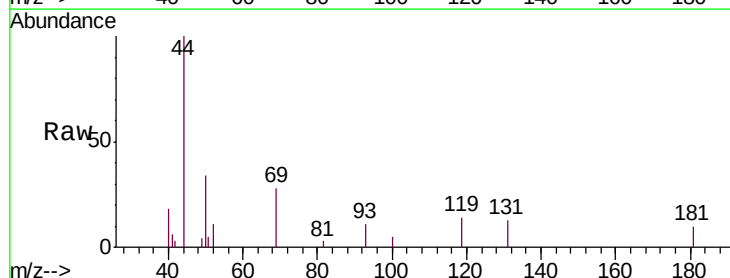
Acq: 30 May 2019 6:52

Tgt Ion: 50 Resp: 1802

Ion Ratio Lower Upper

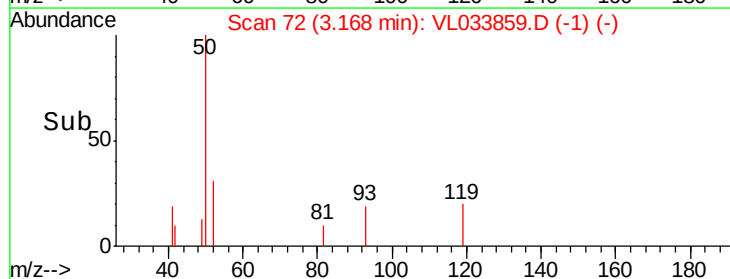
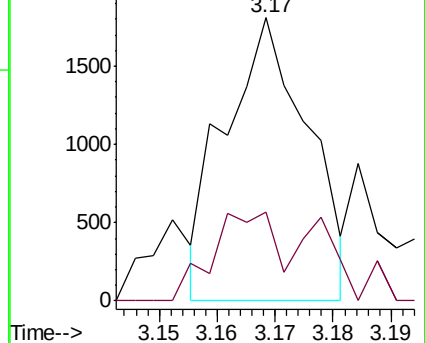
50 100

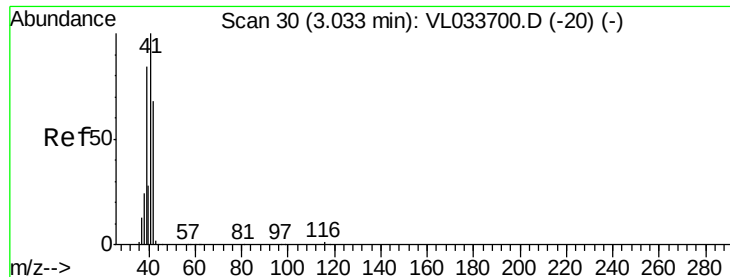
52 19.5 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.049 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

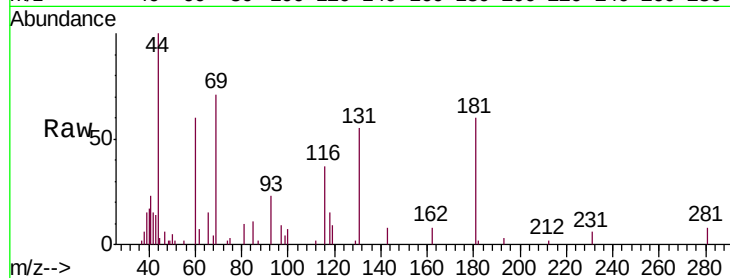
SG-22-20190523-ODL

Tgt Ion: 41 Resp: 1696

Ion Ratio Lower Upper

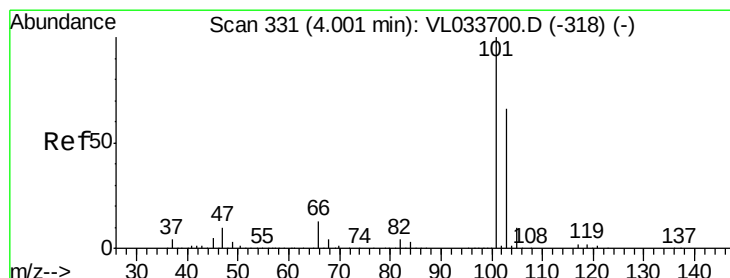
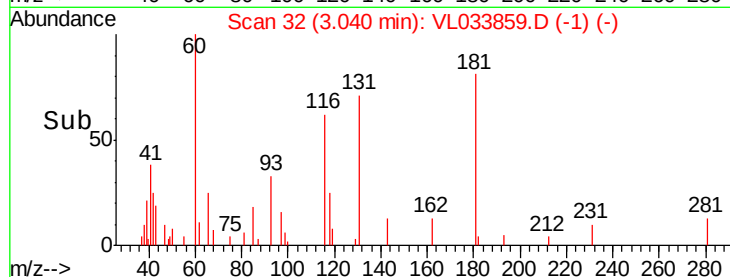
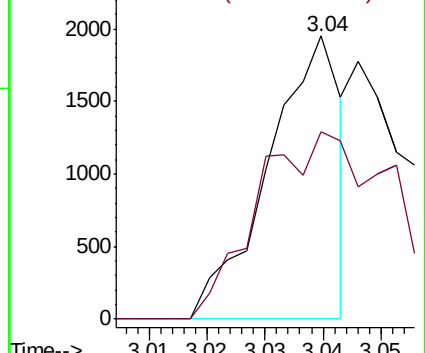
41 100

42 126.9 56.1 84.1#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL033859.D

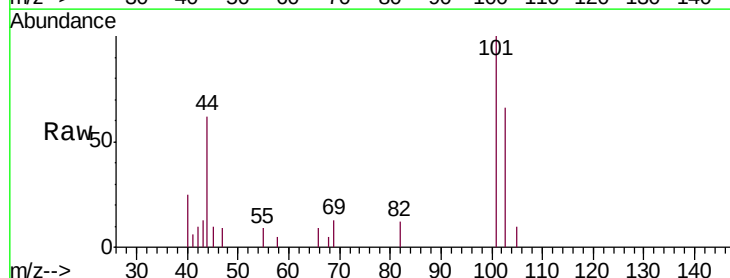
Acq: 30 May 2019 6:52

Tgt Ion: 101 Resp: 4648

Ion Ratio Lower Upper

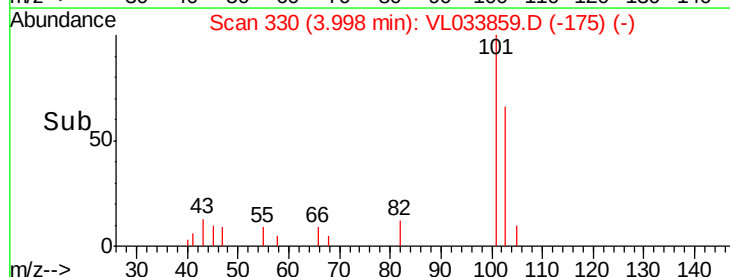
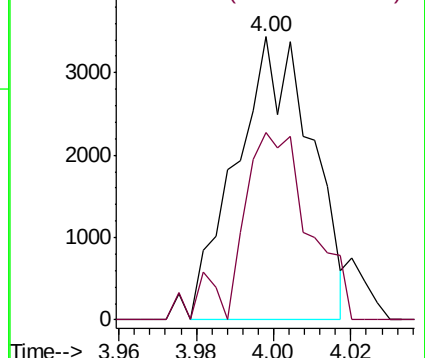
101 100

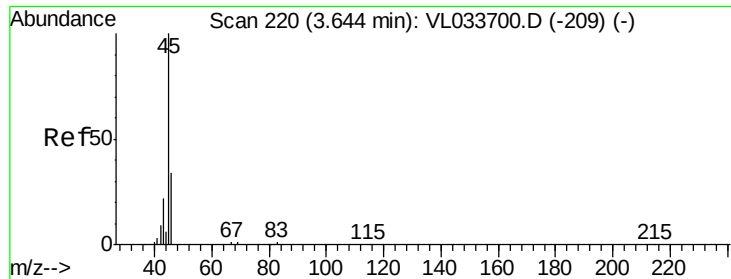
103 66.2 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 10.760 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.00 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

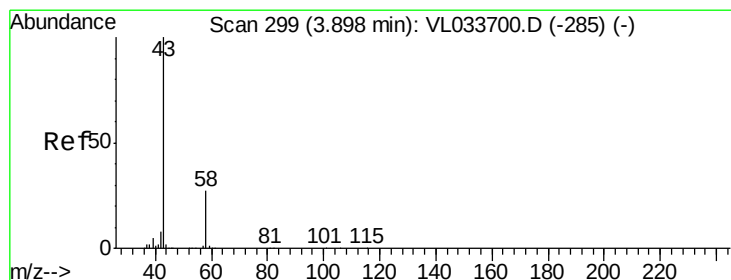
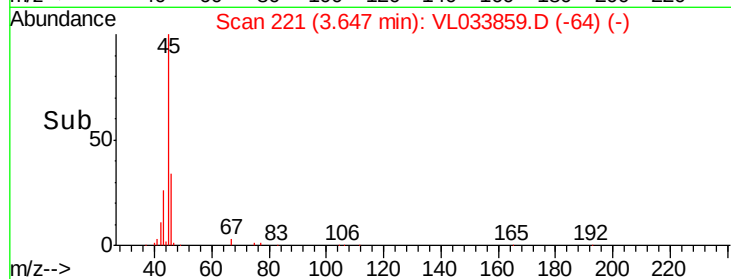
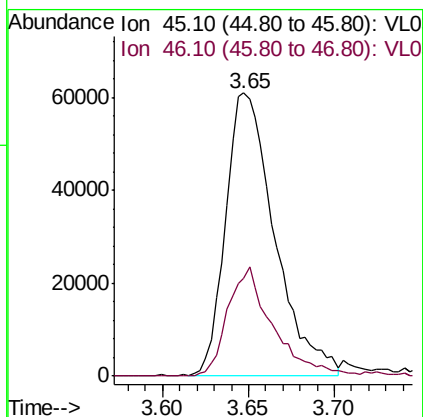
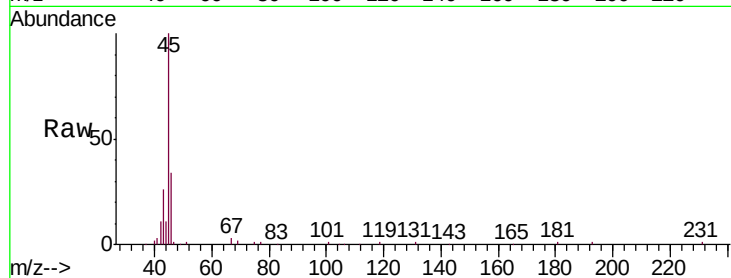
SG-22-20190523-ODL

Tgt Ion: 45 Resp: 121077

Ion Ratio Lower Upper

45 100

46 36.4 14.8 59.0



#15

Acetone

Concen: 0.778 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033859.D

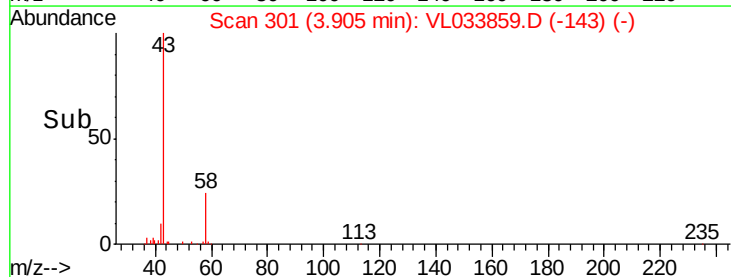
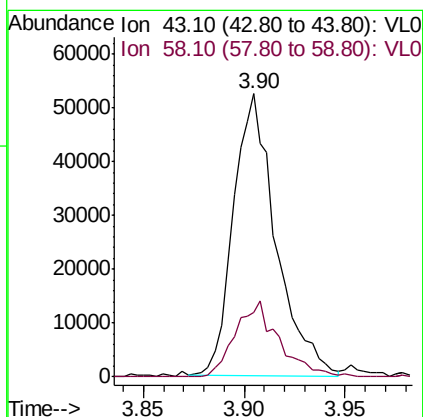
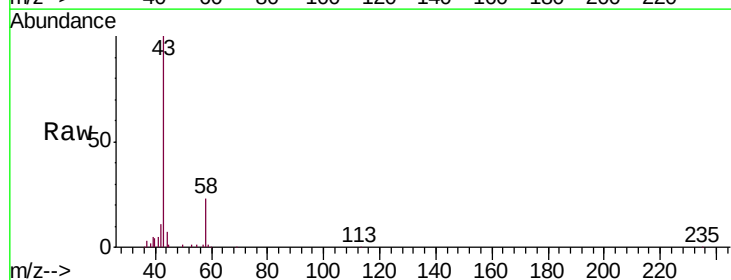
Acq: 30 May 2019 6:52

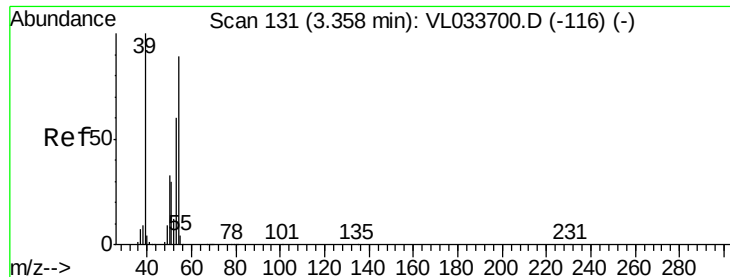
Tgt Ion: 43 Resp: 77162

Ion Ratio Lower Upper

43 100

58 27.6 21.3 31.9

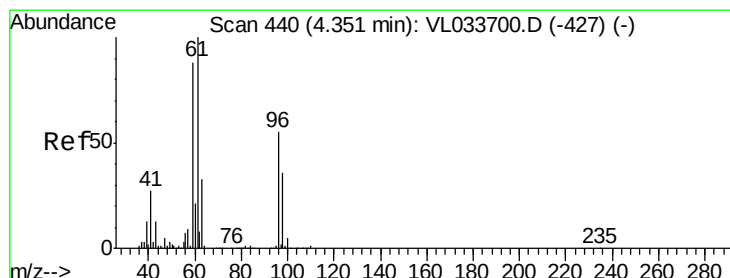
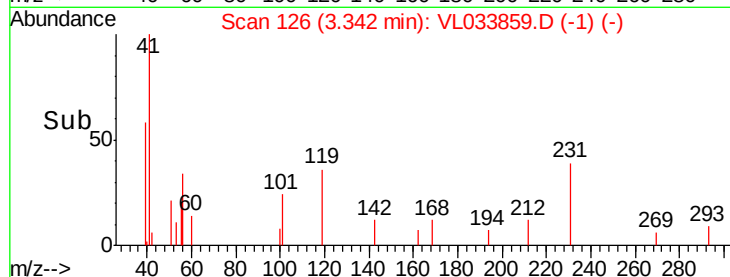
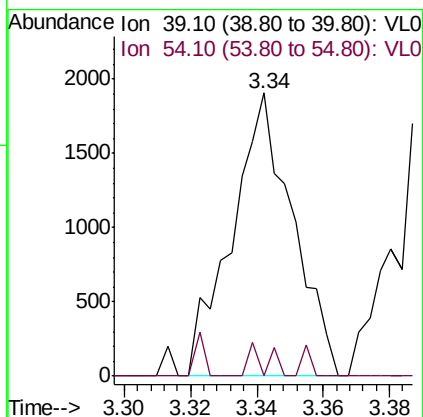
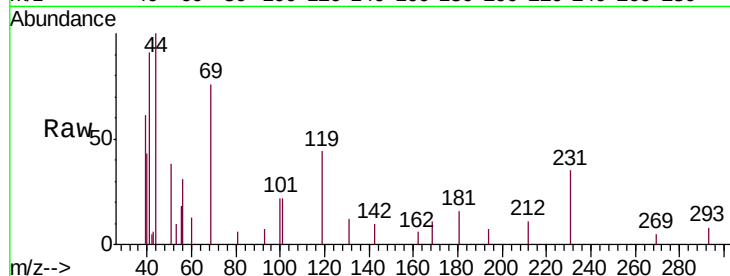




#16
 1,3-Butadiene
 Concen: 0.061 ppbv
 RT: 3.34 min Scan# 126
 Delta R.T. -0.02 min
 Lab File: VL033859.D
 Acq: 30 May 2019 6:52

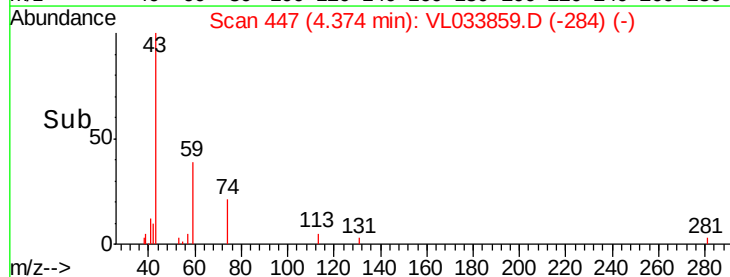
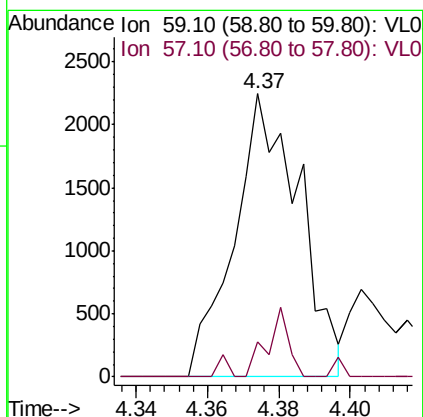
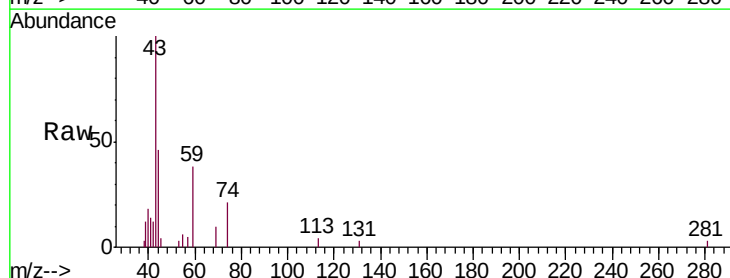
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-22-20190523-ODL

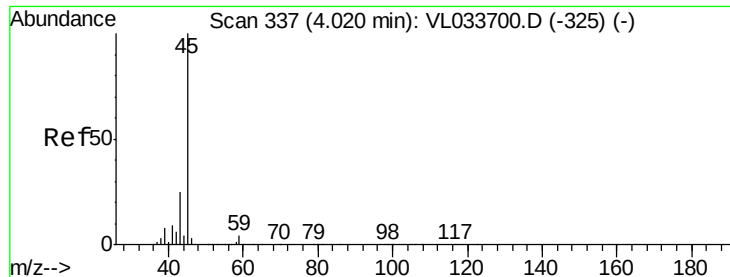
Tgt Ion: 39 Resp: 2428
 Ion Ratio Lower Upper
 39 100
 54 5.0 69.0 103.6#



#17
 tert-Butyl alcohol
 Concen: 0.035 ppbv
 RT: 4.37 min Scan# 447
 Delta R.T. 0.02 min
 Lab File: VL033859.D
 Acq: 30 May 2019 6:52

Tgt Ion: 59 Resp: 2837
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.4 12.6





#19

Isopropyl Alcohol

Concen: 0.355 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

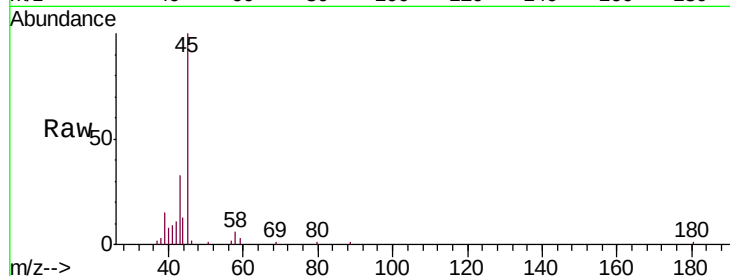
SG-22-20190523-ODL

Tgt Ion: 45 Resp: 22666

Ion Ratio Lower Upper

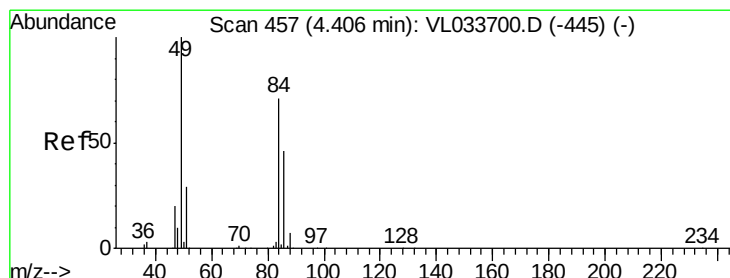
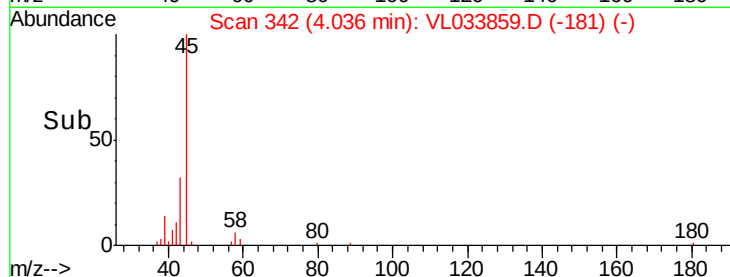
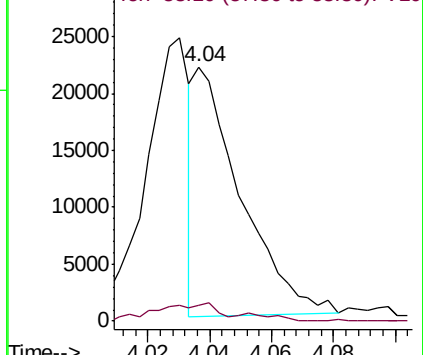
45 100

58 12.8 1.6 2.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.090 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Tgt Ion: 84 Resp: 3434

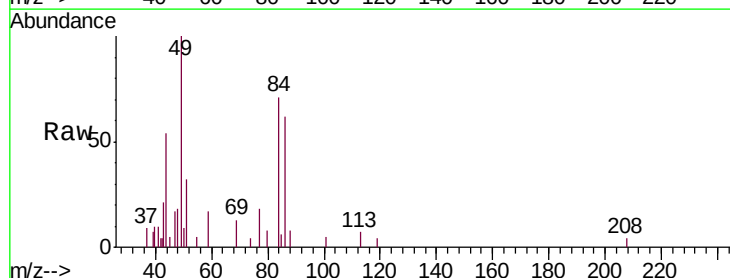
Ion Ratio Lower Upper

84 100

49 125.1 112.8 169.2

51 39.1 33.4 50.0

86 78.1 51.7 77.5#

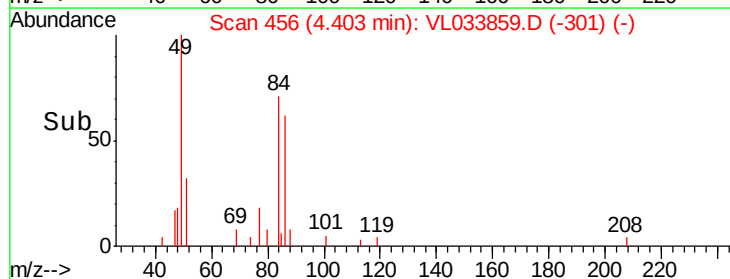
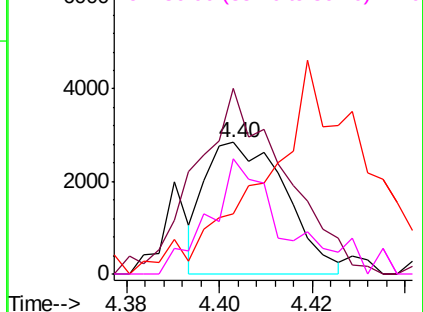


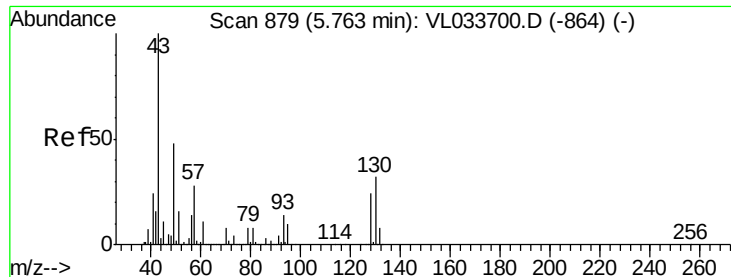
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

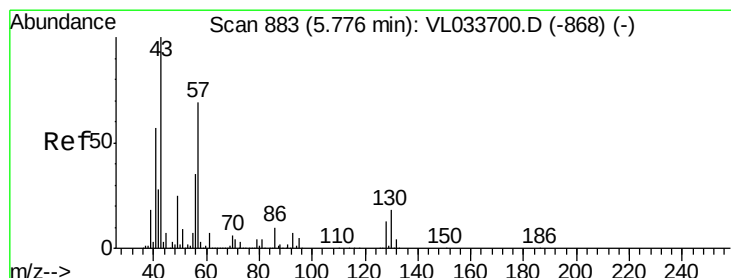
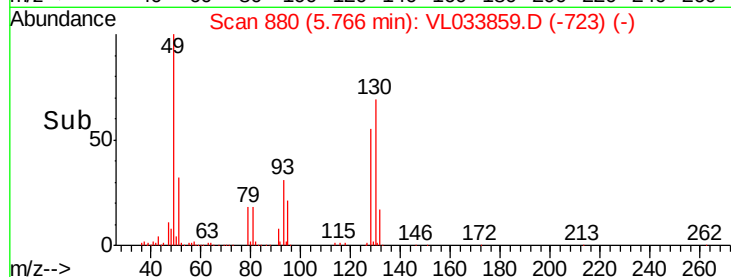
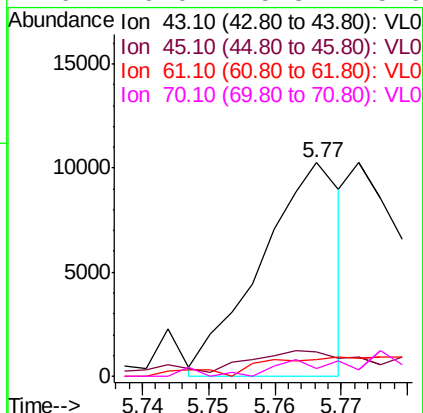
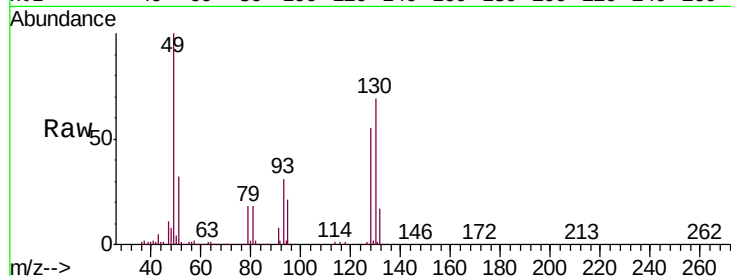




#25
Ethyl Acetate
Concen: 0.049 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033859.D
Acq: 30 May 2019 6:52

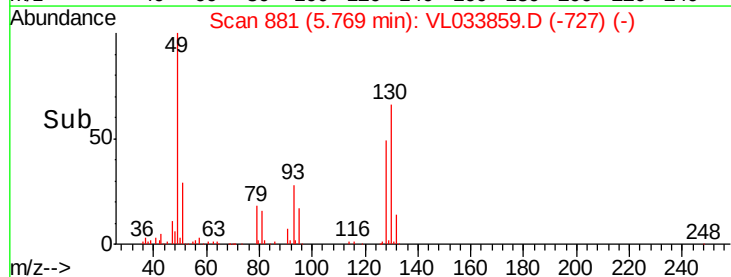
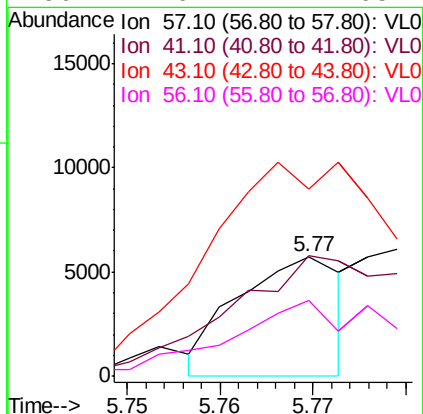
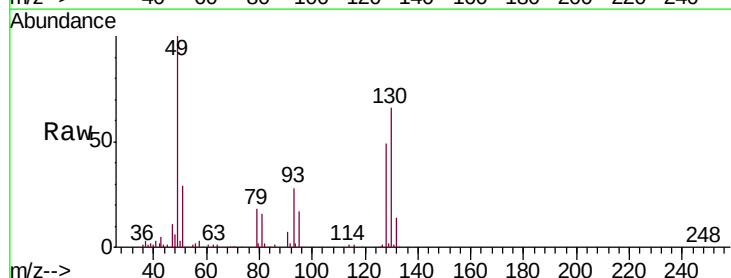
Instrument :
MSVOA_L
ClientSampleId :
SG-22-20190523-ODL

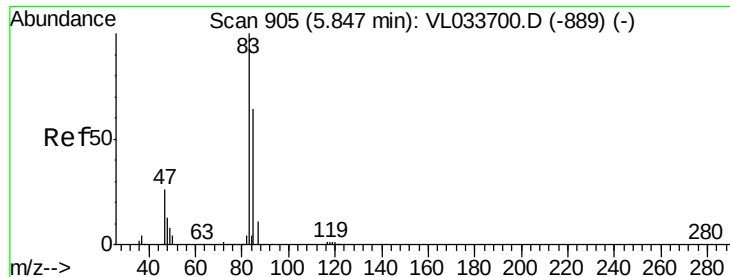
Tgt Ion:	43	Resp:	8615
Ion	Ratio	Lower	Upper
43	100		
45	30.5	7.9	11.9#
61	0.0	7.7	11.5#
70	0.0	5.8	8.6#



#26
Hexane
Concen: 0.060 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033859.D
Acq: 30 May 2019 6:52

Tgt Ion:	57	Resp:	4466
Ion	Ratio	Lower	Upper
57	100		
41	215.7	69.8	104.6#
43	427.3	181.8	272.6#
56	124.6	42.1	63.1#





#29

Chloroform

Concen: 0.122 ppbv

RT: 5.83 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

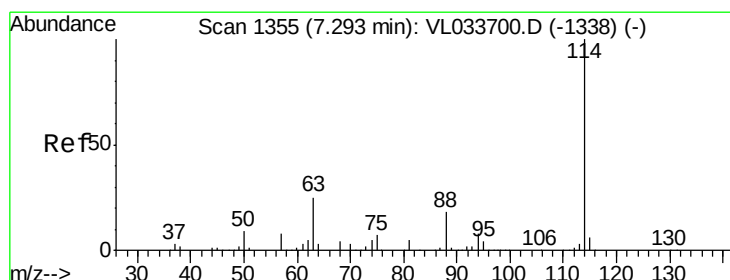
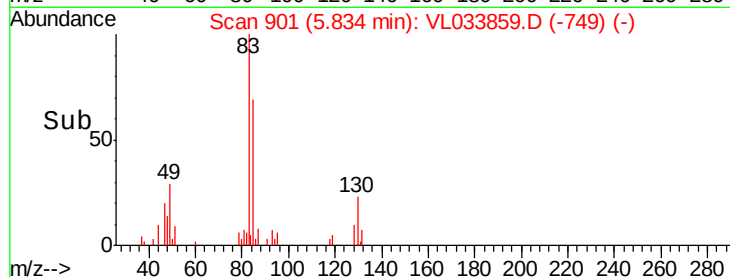
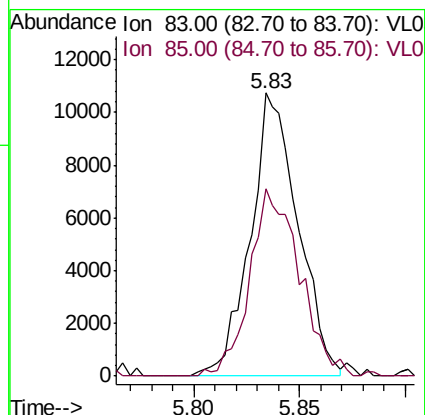
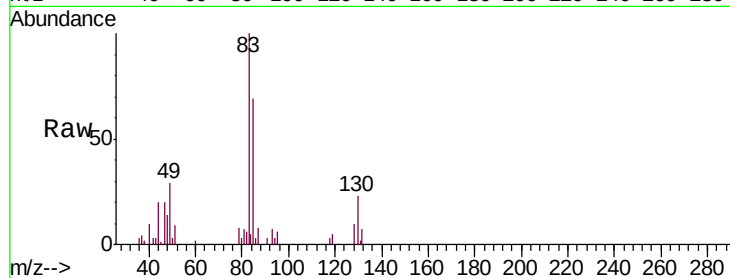
SG-22-20190523-ODL

Tgt Ion: 83 Resp: 16867

Ion Ratio Lower Upper

83 100

85 69.1 51.5 77.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.01 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

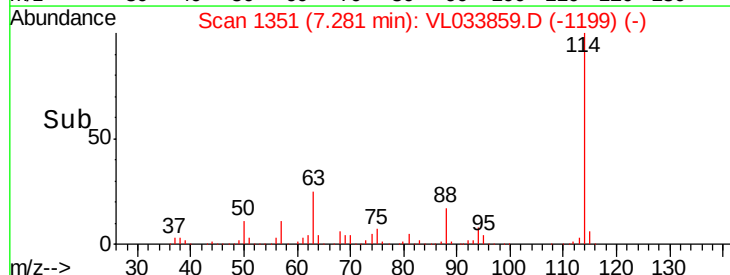
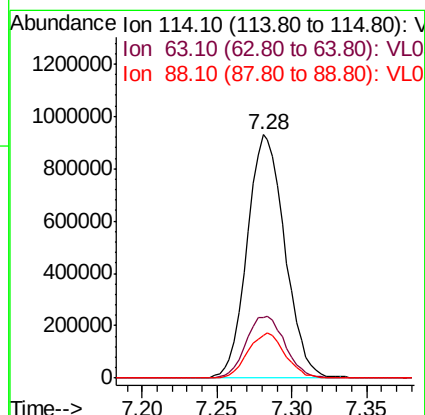
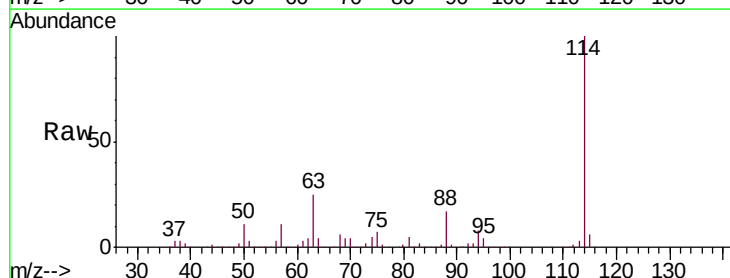
Tgt Ion: 114 Resp: 1627180

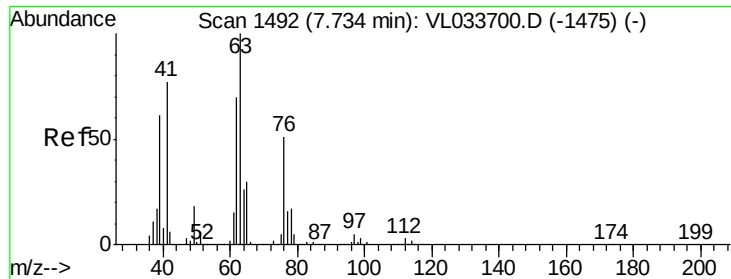
Ion Ratio Lower Upper

114 100

63 26.3 20.9 31.3

88 18.2 14.3 21.5





#39

1,2-Dichloropropane

Concen: 7.710 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.45 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

SG-22-20190523-ODL

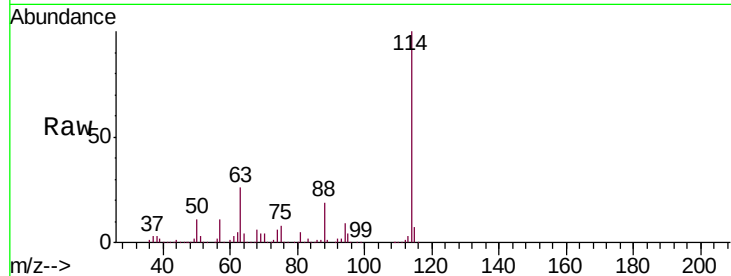
Tgt Ion: 63 Resp: 425461

Ion Ratio Lower Upper

63 100

41 0.1 61.5 92.3#

62 17.7 56.2 84.4#

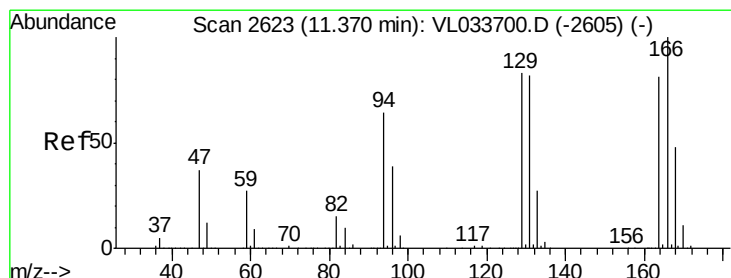
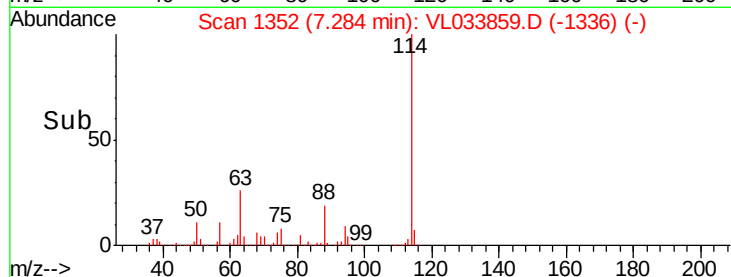
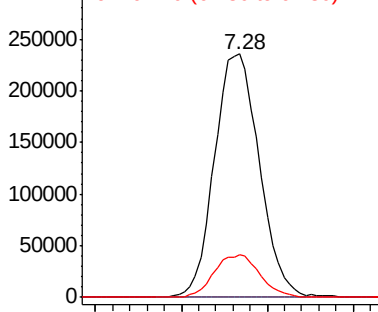


Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#52

Tetrachloroethene

Concen: 0.941 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Tgt Ion: 164 Resp: 48975

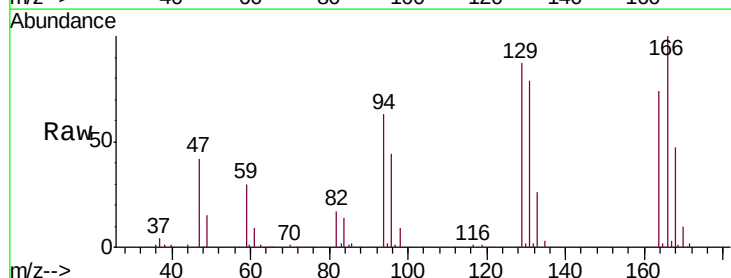
Ion Ratio Lower Upper

164 100

166 134.0 98.9 148.3

129 118.7 81.8 122.6

131 106.2 81.1 121.7



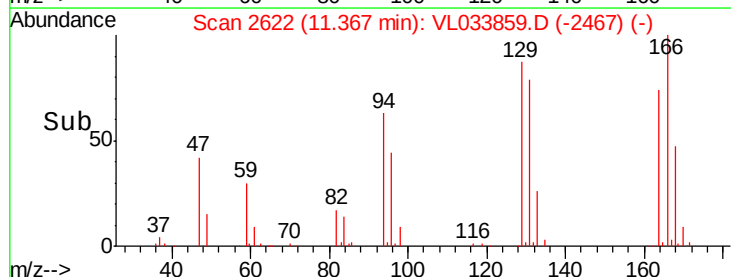
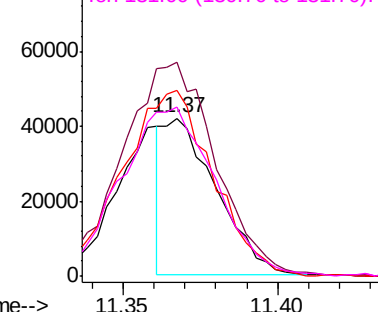
Abundance

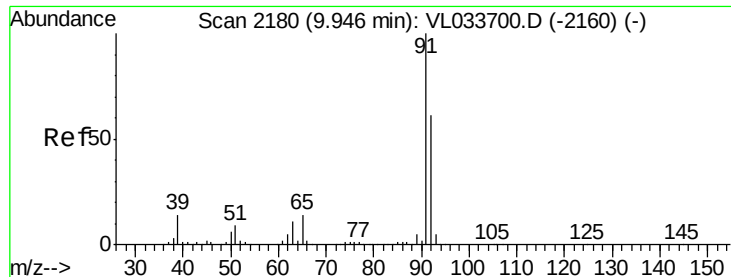
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.068 ppbv

RT: 9.93 min Scan# 2175

Delta R.T. -0.02 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

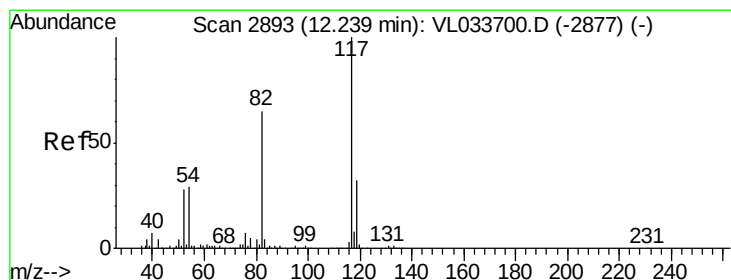
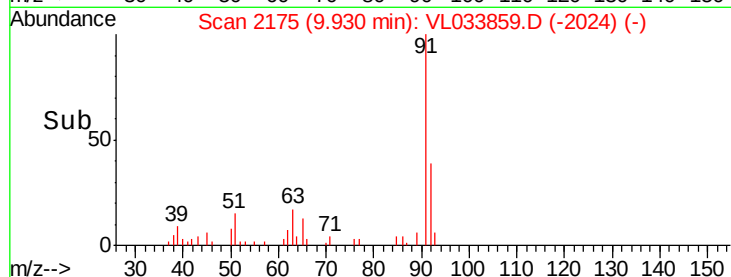
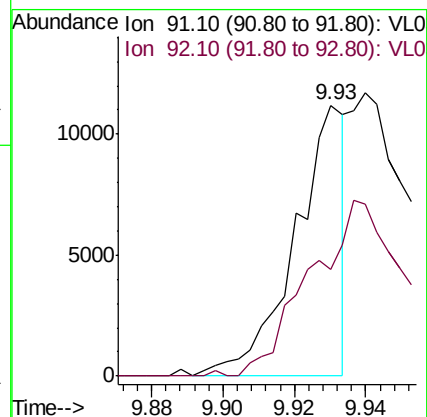
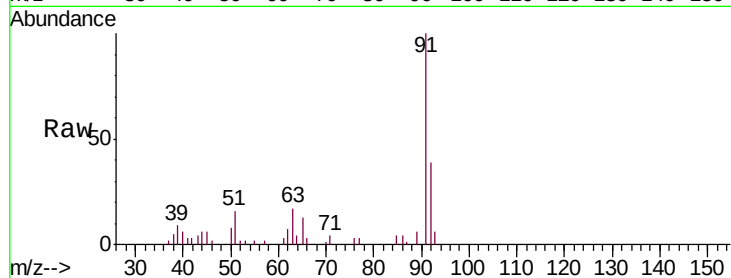
SG-22-20190523-ODL

Tgt Ion: 91 Resp: 10836

Ion Ratio Lower Upper

91 100

92 0.0 47.6 71.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

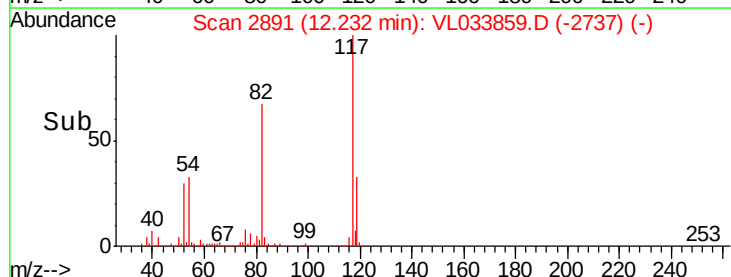
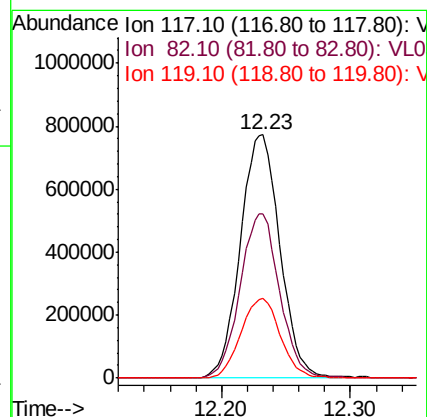
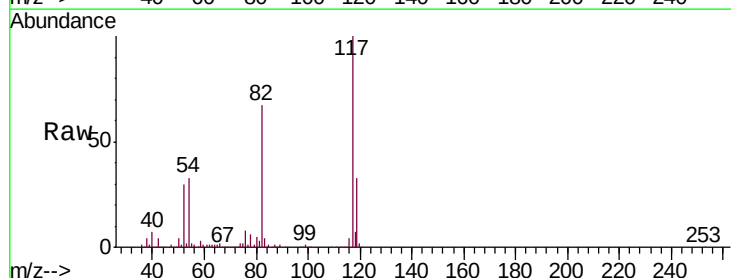
Tgt Ion: 117 Resp: 1647324

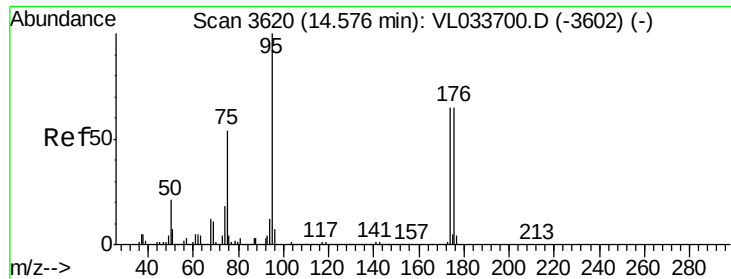
Ion Ratio Lower Upper

117 100

82 67.8 49.4 74.0

119 32.8 24.9 37.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.132 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033859.D

Acq: 30 May 2019 6:52

Instrument :

MSVOA_L

ClientSampleId :

SG-22-20190523-ODL

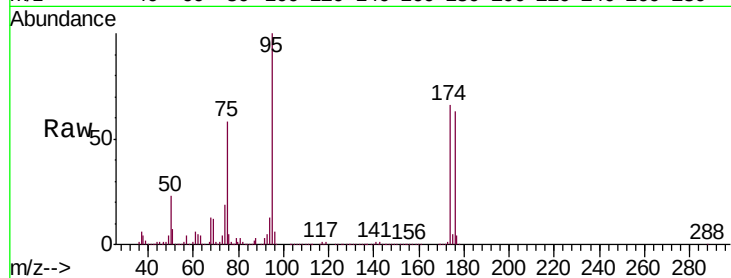
Tgt Ion: 95 Resp: 1353034

Ion Ratio Lower Upper

95 100

174 66.0 53.9 80.9

175 4.8 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

