

Data File : VL033845.D
Acq On : 29 May 2019 21:27
Operator : SY/AP
Sample : K3067-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-25-20190522-ODL

Quant Time: May 30 02:13:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-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	5.76	49	684416	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1564995	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1528793	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1310234	10.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	4599	0.059	ppbv #	84
9) Propene	3.38	41	1210	0.036	ppbv	89
11) Trichlorofluoromethane	4.00	101	7196	0.052	ppbv #	78
13) Ethanol	3.65	45	13791	1.280	ppbv #	50
15) Acetone	3.90	43	104022	1.095	ppbv	94
19) Isopropyl Alcohol	4.03	45	9171	0.150	ppbv #	57
20) Methylene Chloride	4.41	84	13881	0.380	ppbv	94
23) Vinyl Acetate	5.14	43	4290	0.034	ppbv #	58
25) Ethyl Acetate	5.77	43	14038	0.084	ppbv #	80
26) Hexane	5.77	57	11797	0.165	ppbv #	1
27) Carbon Disulfide	4.62	76	2998	0.030	ppbv #	5
29) Chloroform	5.83	83	7683	0.058	ppbv	97
39) 1,2-Dichloropropane	7.28	63	417041	7.857	ppbv #	22
52) Tetrachloroethene	11.36	164	3123	0.062	ppbv #	40
53) Toluene	9.94	91	11030	0.072	ppbv	97

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

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SG-25-20190522-ODL

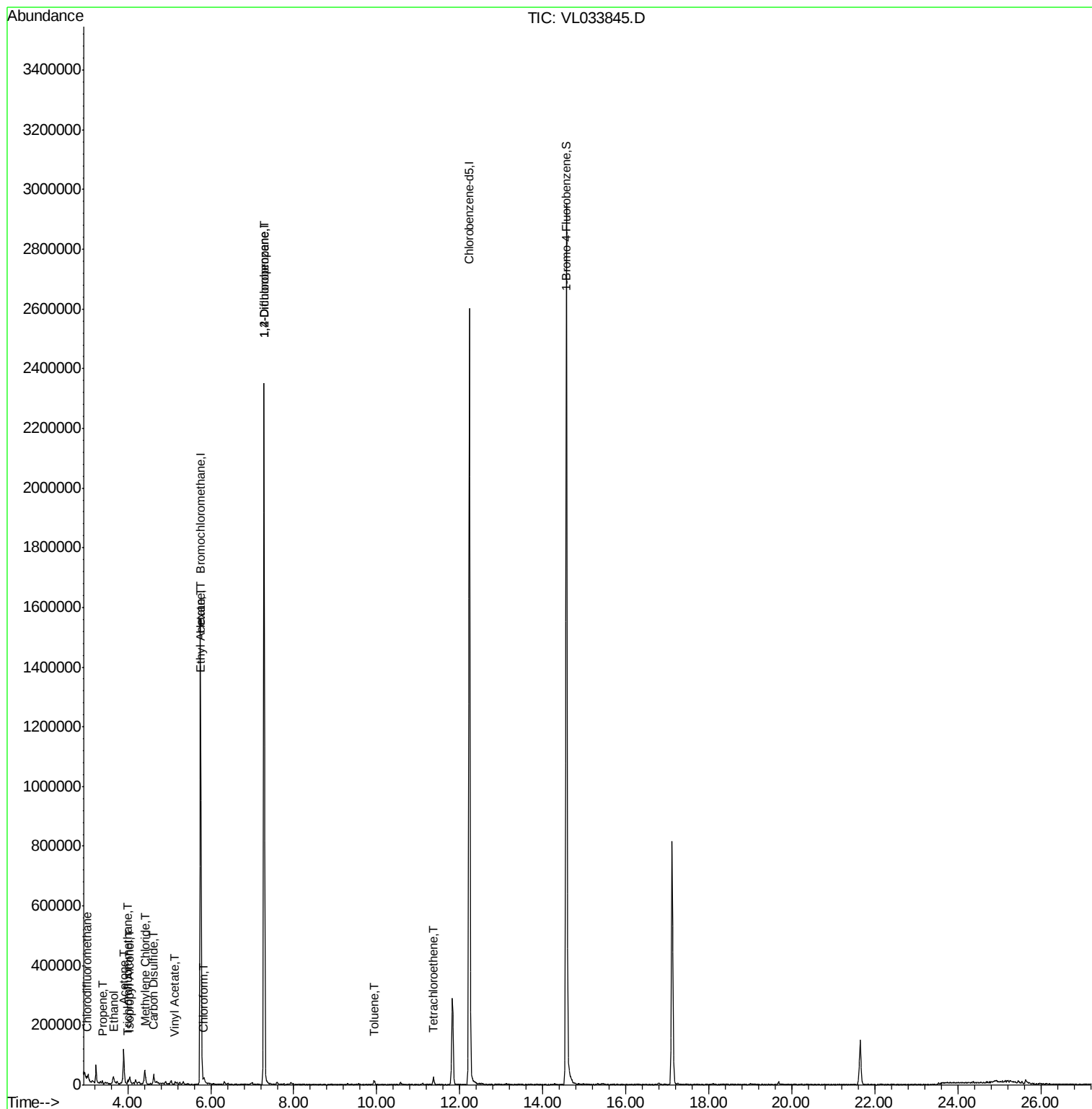
Quant Time: May 30 02:13:07 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

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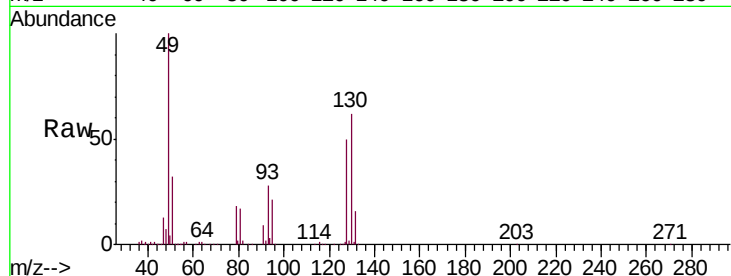
Tgt Ion: 49 Resp: 684416

Ion Ratio Lower Upper

49 100

128 50.5 25.2 75.6

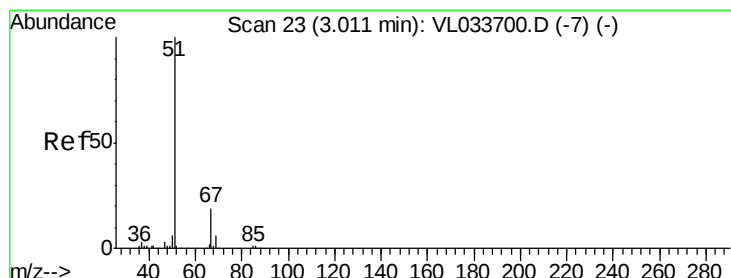
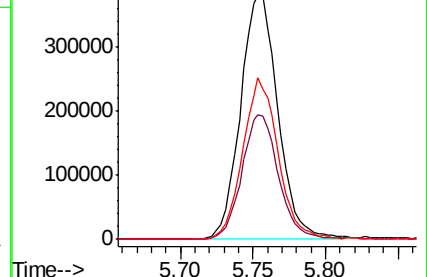
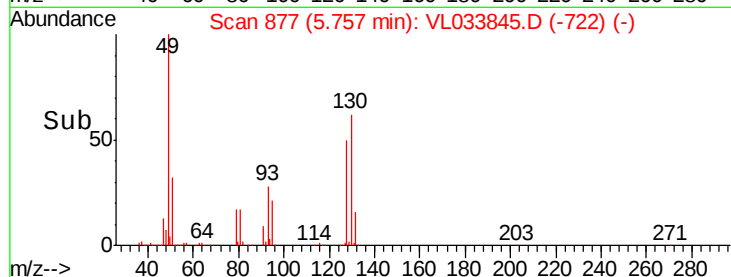
130 62.9 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.01 min

Lab File: VL033845.D

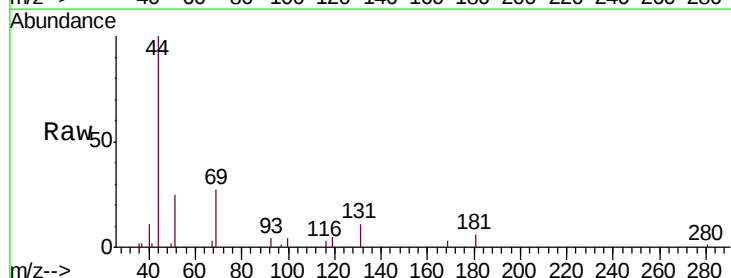
Acq: 29 May 2019 21:27

Tgt Ion: 51 Resp: 4599

Ion Ratio Lower Upper

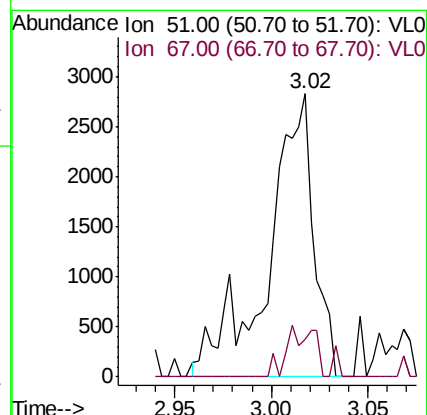
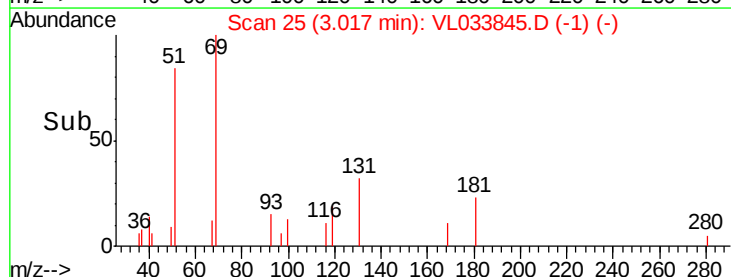
51 100

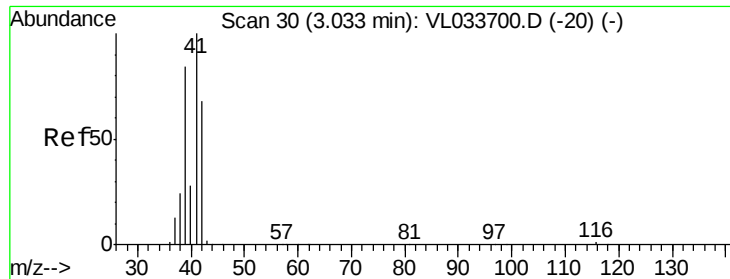
67 12.2 15.6 23.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.036 ppbv

RT: 3.38 min Scan# 139

Delta R.T. 0.35 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

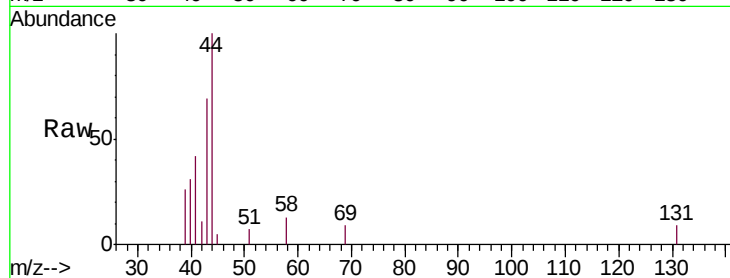
SG-25-20190522-ODL

Tgt Ion: 41 Resp: 1210

Ion Ratio Lower Upper

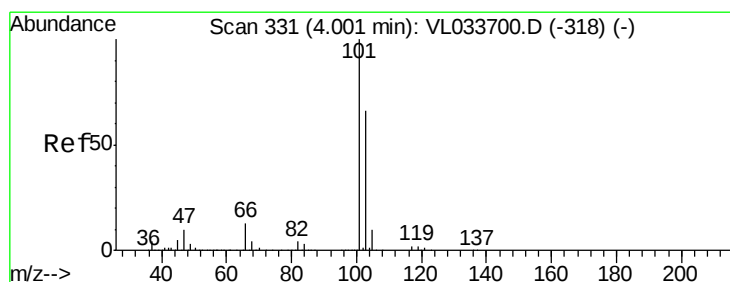
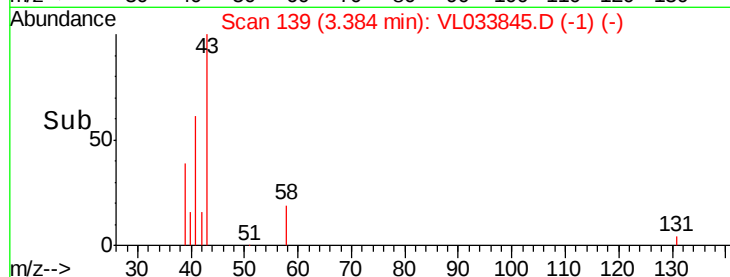
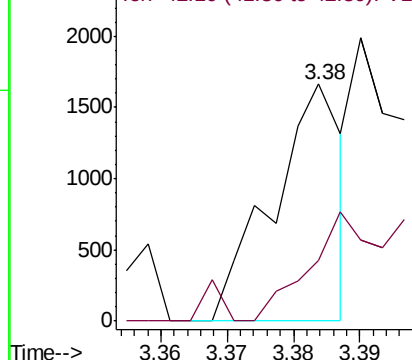
41 100

42 79.3 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: 0.052 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033845.D

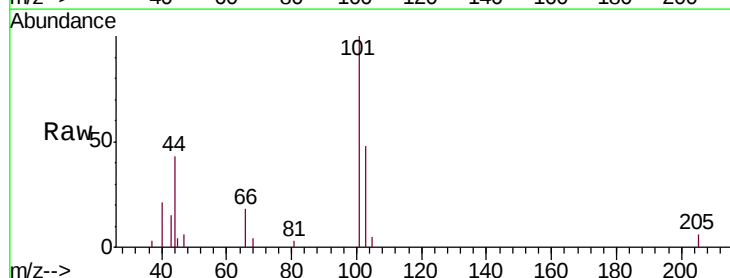
Acq: 29 May 2019 21:27

Tgt Ion: 101 Resp: 7196

Ion Ratio Lower Upper

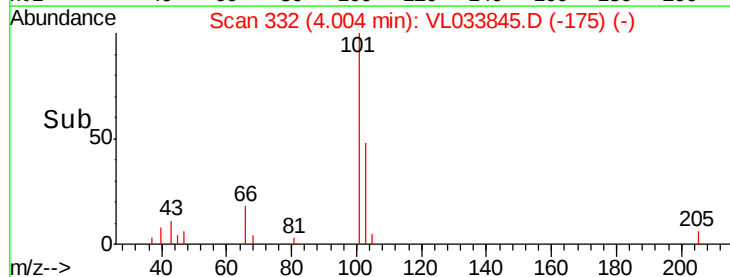
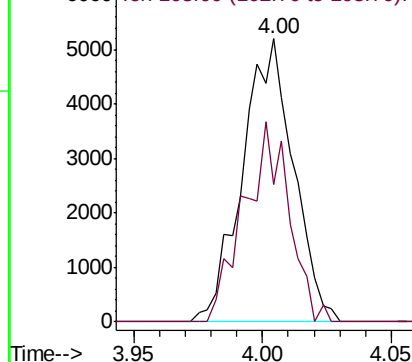
101 100

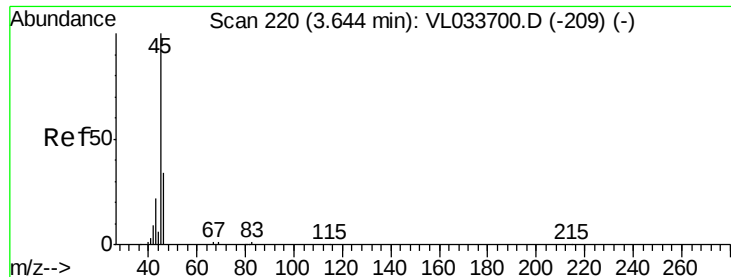
103 48.5 52.6 78.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 1.280 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

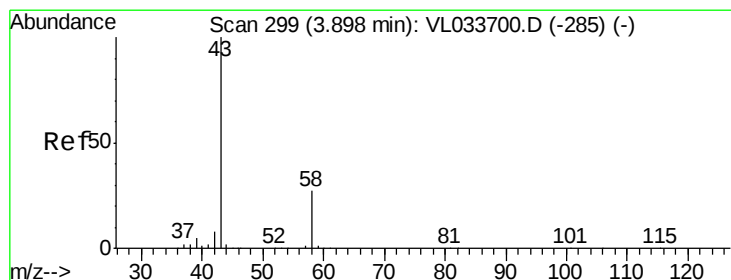
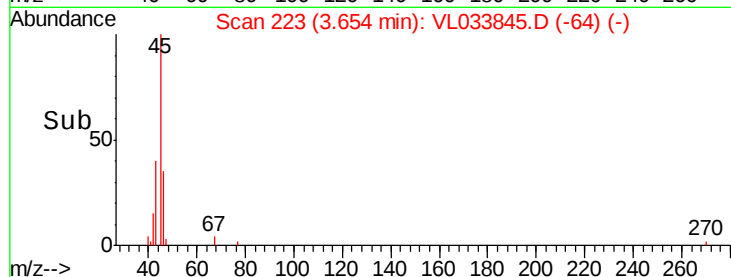
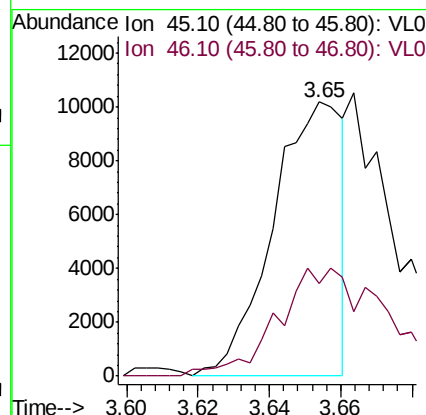
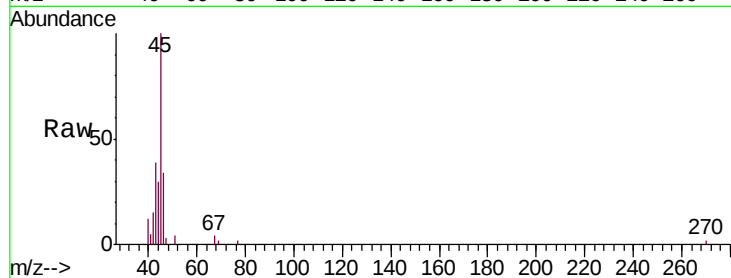
SG-25-20190522-ODL

Tgt Ion: 45 Resp: 13791

Ion Ratio Lower Upper

45 100

46 66.6 14.8 59.0#



#15

Acetone

Concen: 1.095 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033845.D

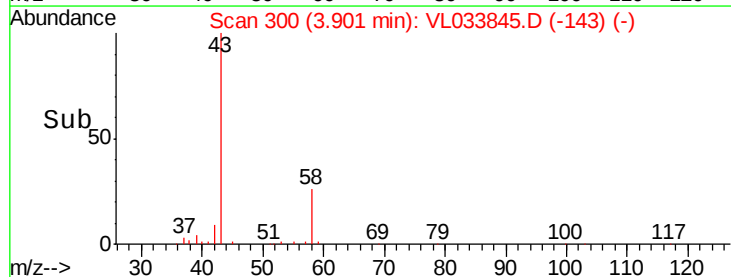
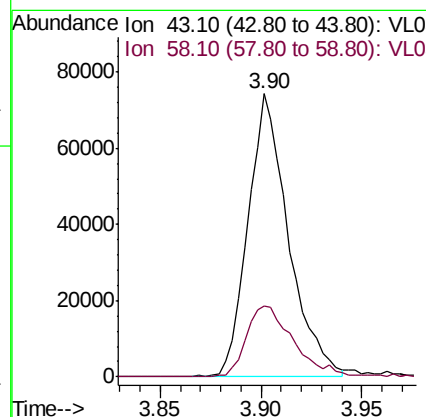
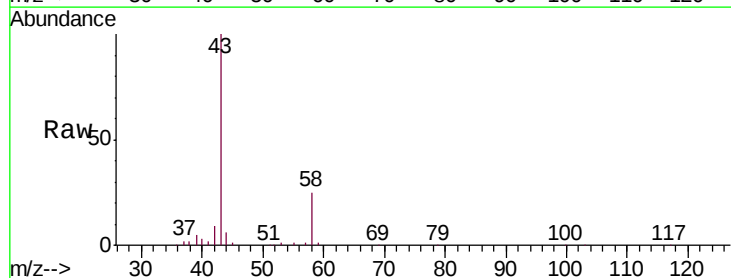
Acq: 29 May 2019 21:27

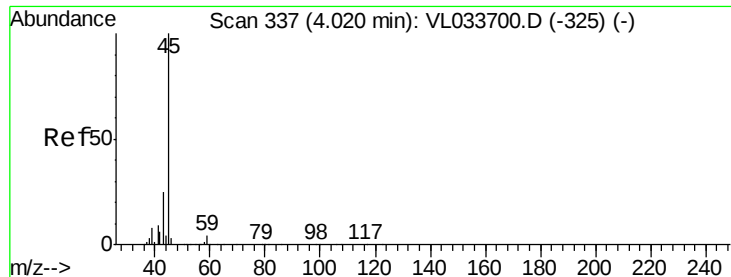
Tgt Ion: 43 Resp: 104022

Ion Ratio Lower Upper

43 100

58 29.8 21.3 31.9





#19

Isopropyl Alcohol

Concen: 0.150 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

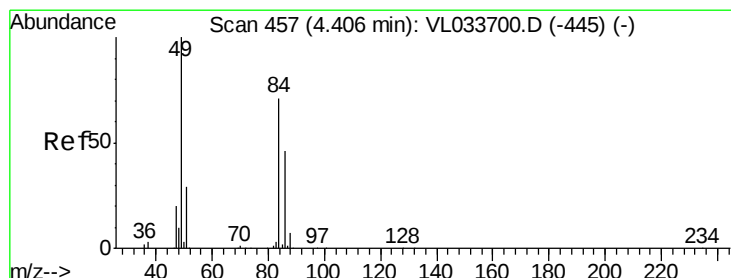
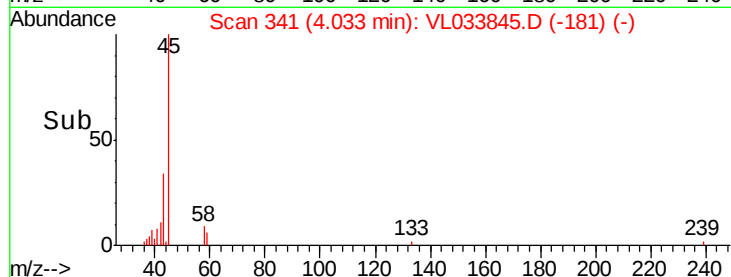
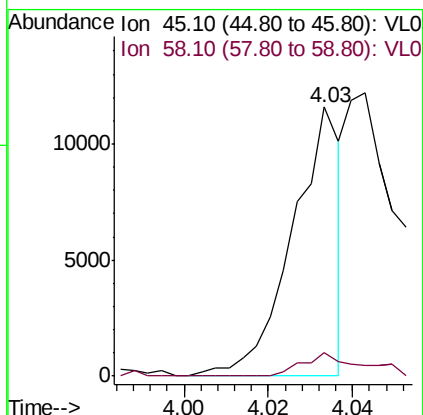
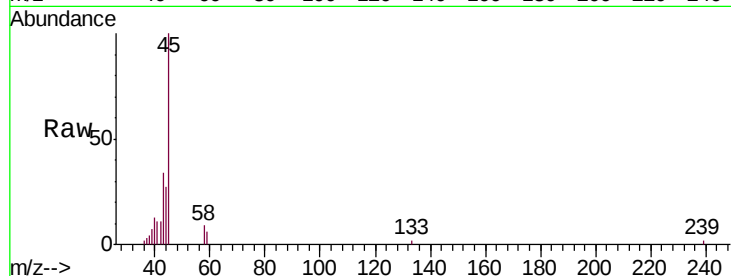
SG-25-20190522-ODL

Tgt Ion: 45 Resp: 9171

Ion Ratio Lower Upper

45 100

58 17.3 1.6 2.4#



#20

Methylene Chloride

Concen: 0.380 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Tgt Ion: 84 Resp: 13881

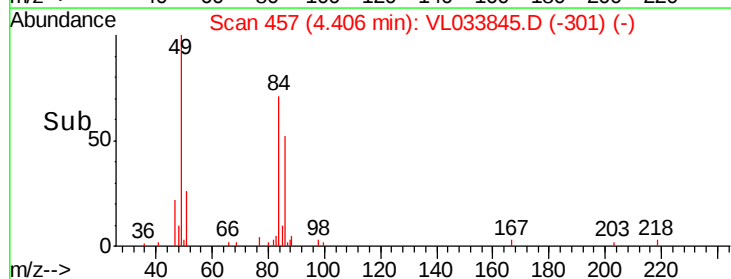
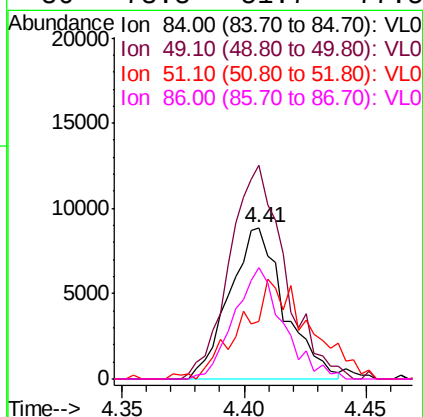
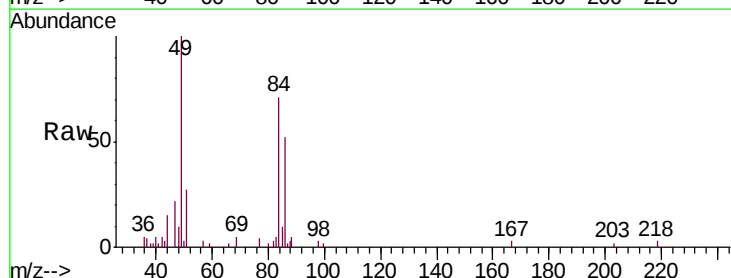
Ion Ratio Lower Upper

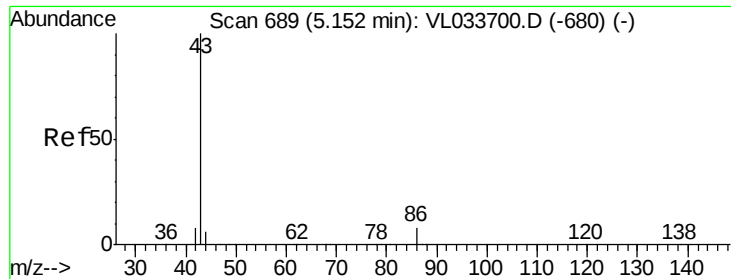
84 100

49 137.8 112.8 169.2

51 34.8 33.4 50.0

86 73.8 51.7 77.5





#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

SG-25-20190522-ODL

Tgt Ion: 43 Resp: 4290

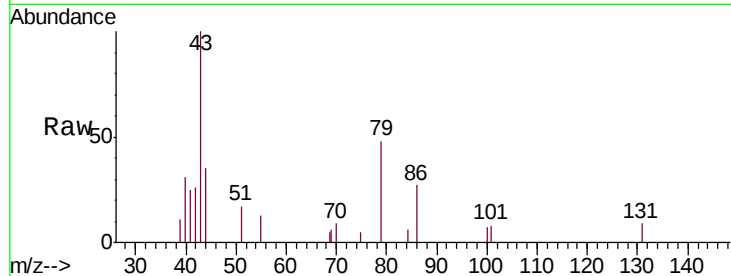
Ion Ratio Lower Upper

43 100

86 30.9 6.0 9.0#

42 23.7 7.5 11.3#

44 0.6 4.4 6.6#

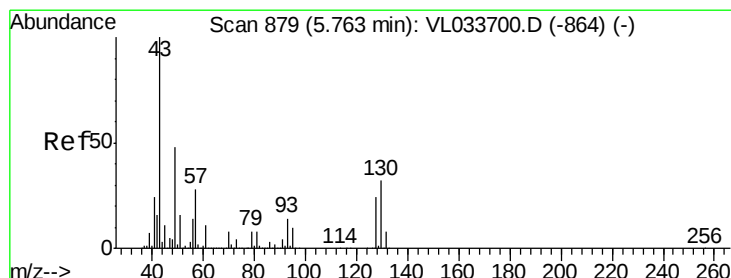
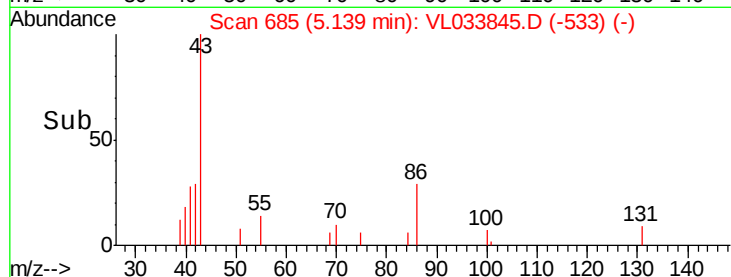
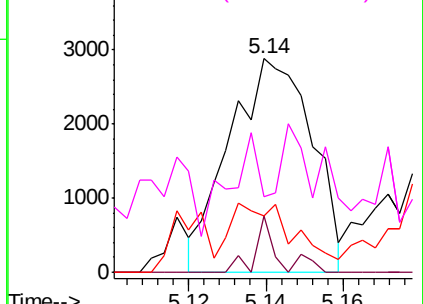


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.084 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Tgt Ion: 43 Resp: 14038

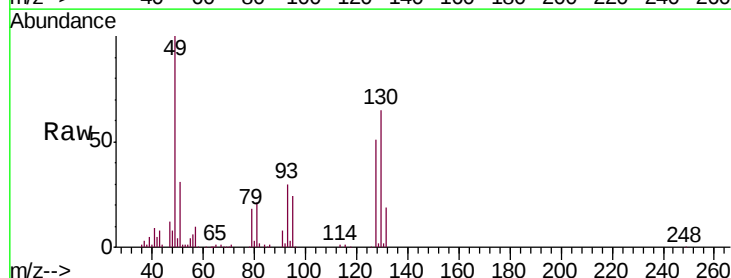
Ion Ratio Lower Upper

43 100

45 2.7 7.9 11.9#

61 2.7 7.7 11.5#

70 0.0 5.8 8.6#

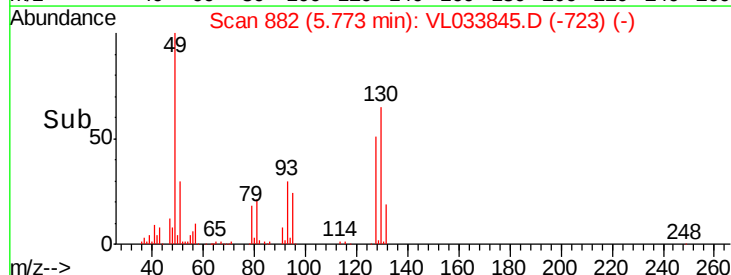
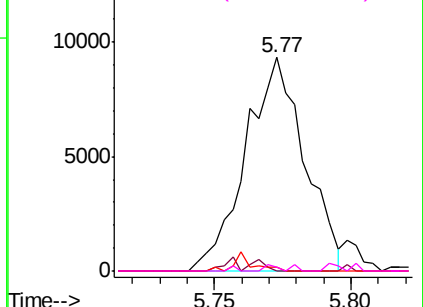


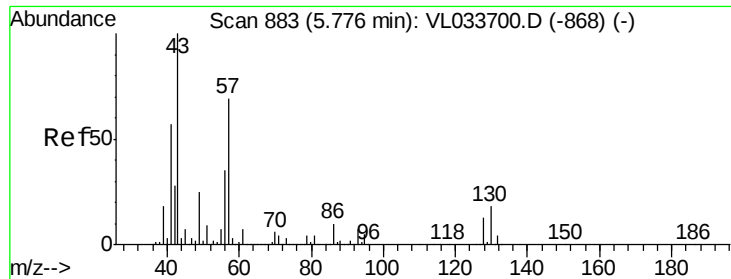
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

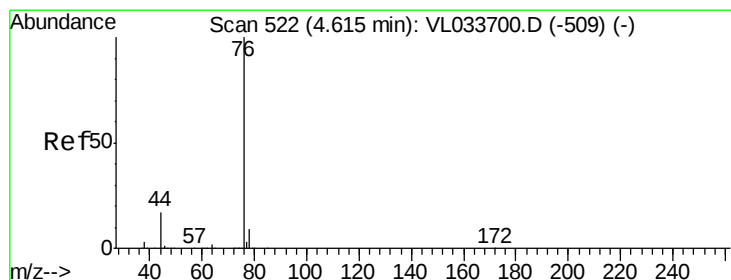
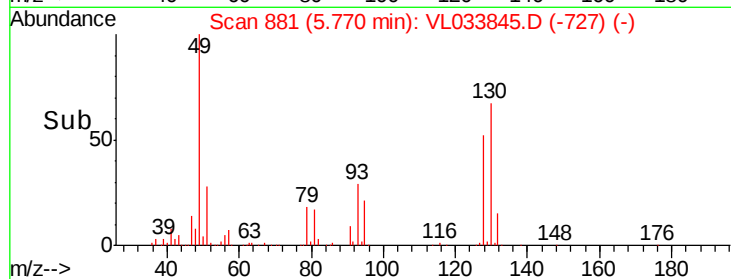
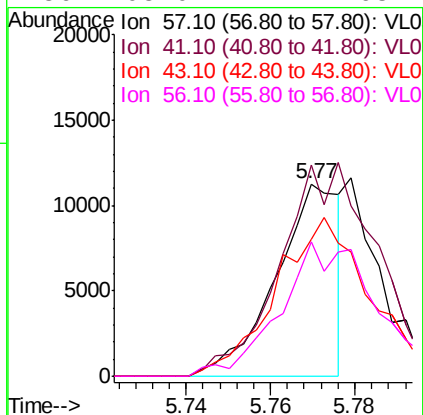
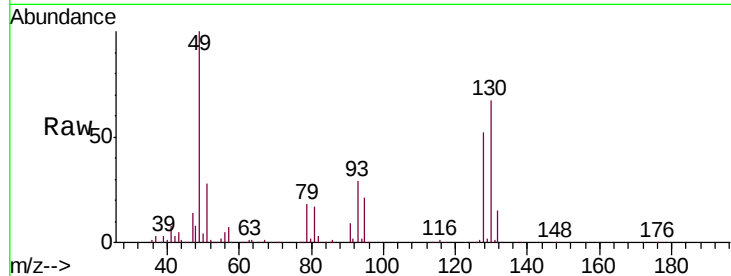




#26
Hexane
Concen: 0.165 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033845.D
Acq: 29 May 2019 21:27

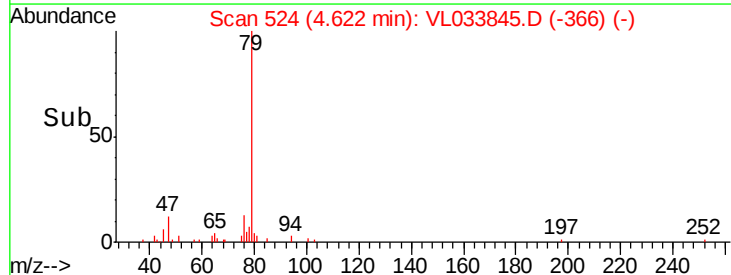
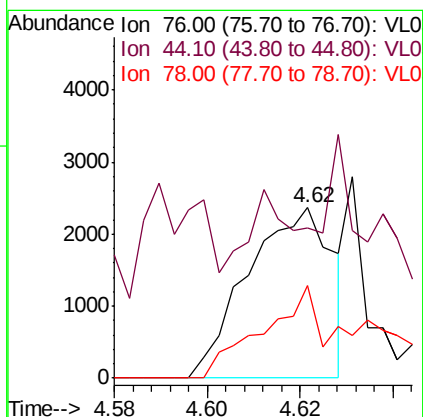
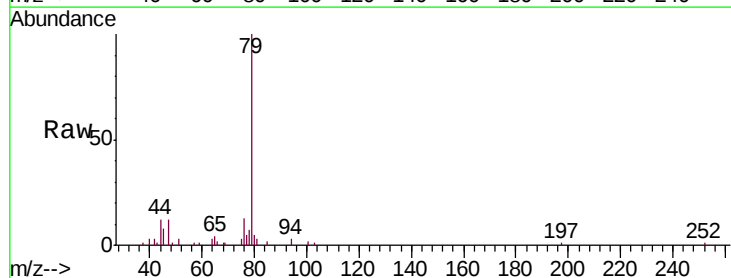
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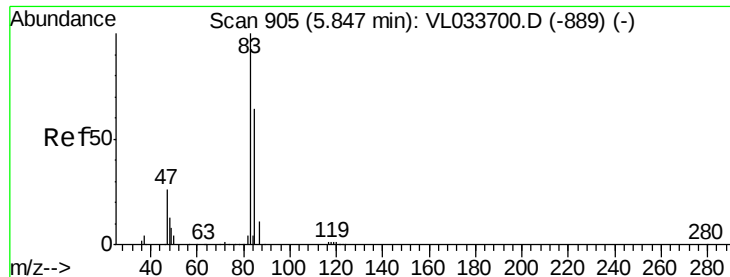
Tgt Ion: 57 Resp: 11797
Ion Ratio Lower Upper
57 100
41 0.0 69.8 104.6#
43 0.0 181.8 272.6#
56 105.0 42.1 63.1#



#27
Carbon Disulfide
Concen: 0.030 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.01 min
Lab File: VL033845.D
Acq: 29 May 2019 21:27

Tgt Ion: 76 Resp: 2998
Ion Ratio Lower Upper
76 100
44 47.7 13.8 20.8#
78 60.8 7.4 11.0#





#29

Chloroform

Concen: 0.058 ppbv

RT: 5.83 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

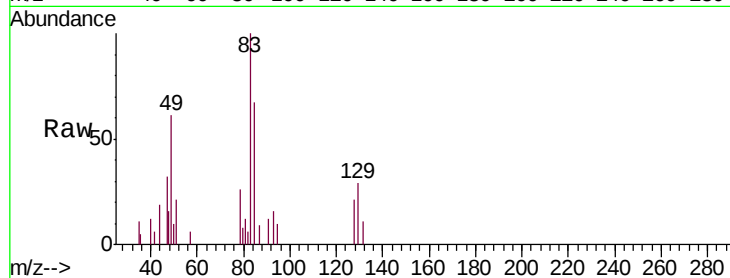
SG-25-20190522-ODL

Tgt Ion: 83 Resp: 7683

Ion Ratio Lower Upper

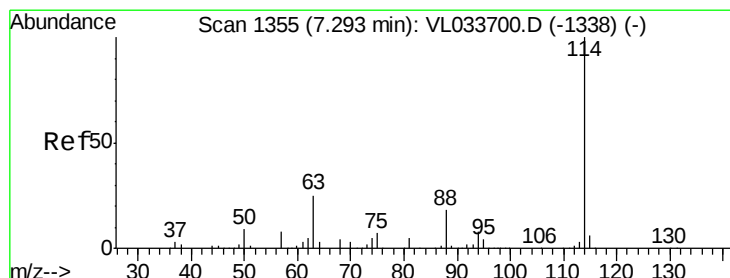
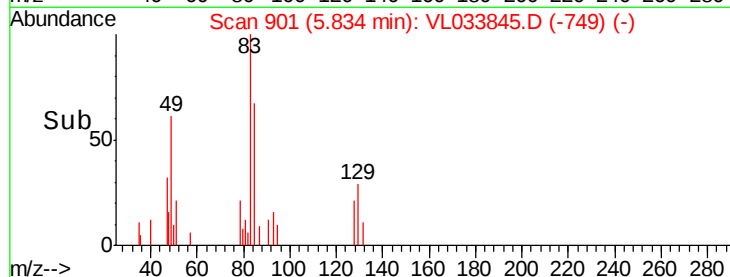
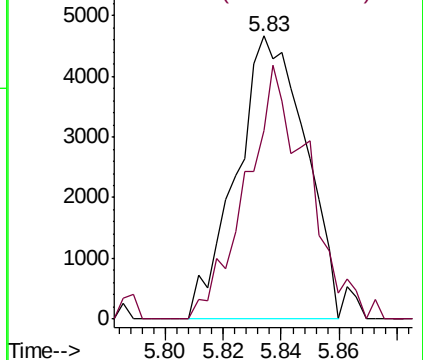
83 100

85 66.6 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

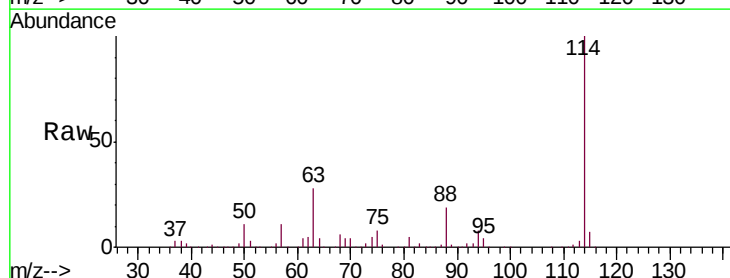
Tgt Ion: 114 Resp: 1564995

Ion Ratio Lower Upper

114 100

63 26.8 20.9 31.3

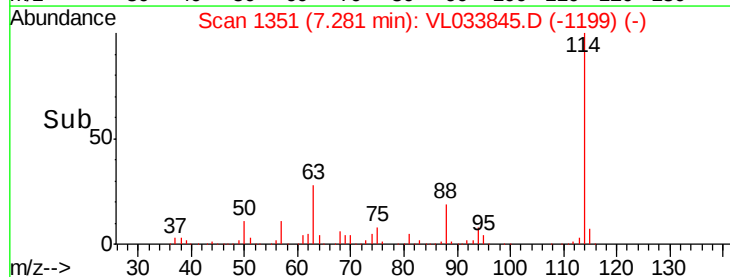
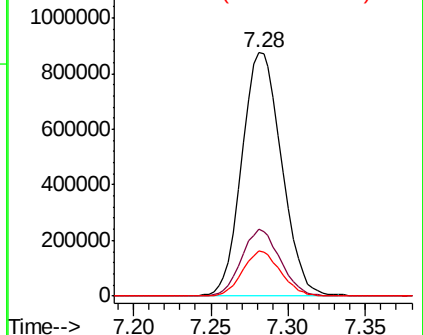
88 17.8 14.3 21.5

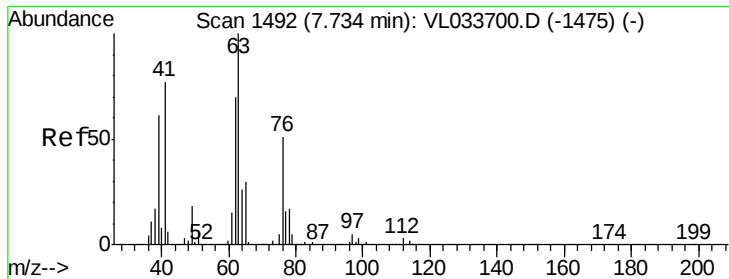


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 7.857 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.45 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

SG-25-20190522-ODL

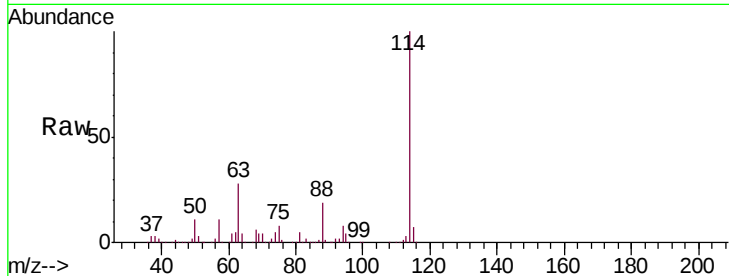
Tgt Ion: 63 Resp: 417041

Ion Ratio Lower Upper

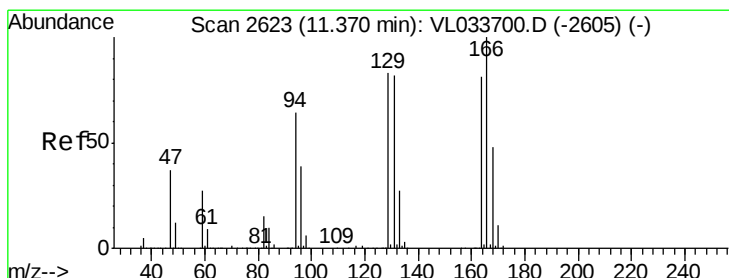
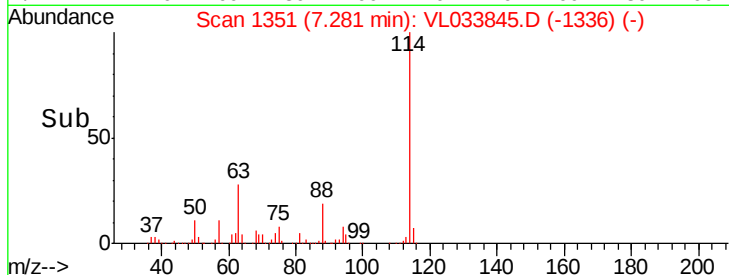
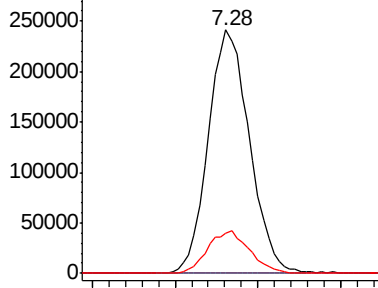
63 100

41 0.1 61.5 92.3#

62 16.7 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: 0.062 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Tgt Ion: 164 Resp: 3123

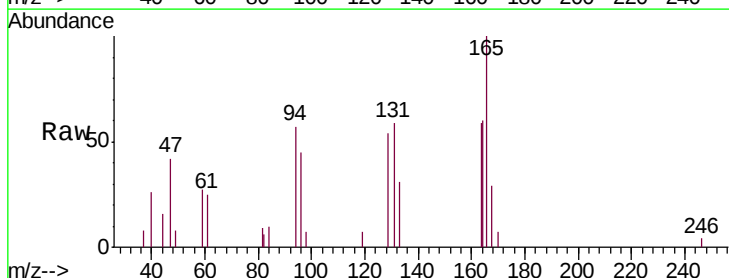
Ion Ratio Lower Upper

164 100

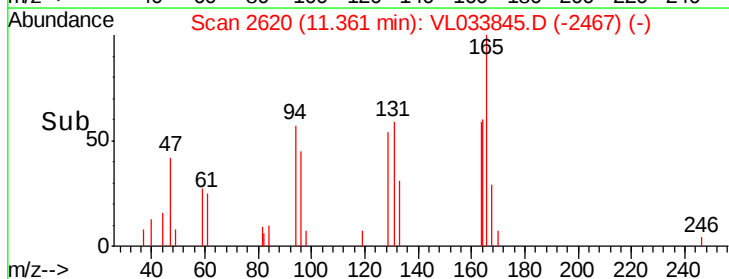
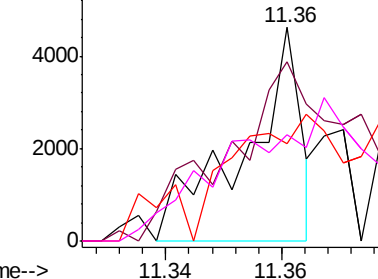
166 70.3 98.9 148.3#

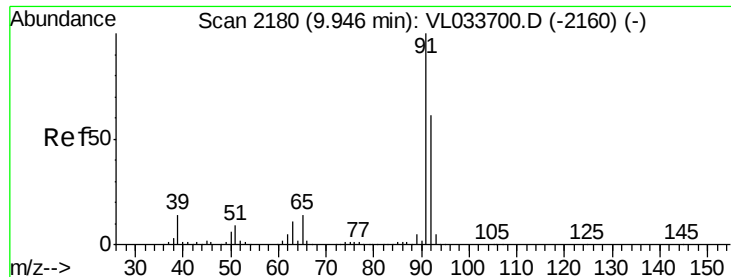
129 29.7 81.8 122.6#

131 36.4 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: 0.072 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

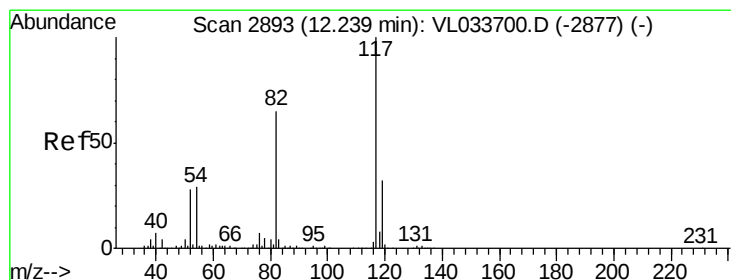
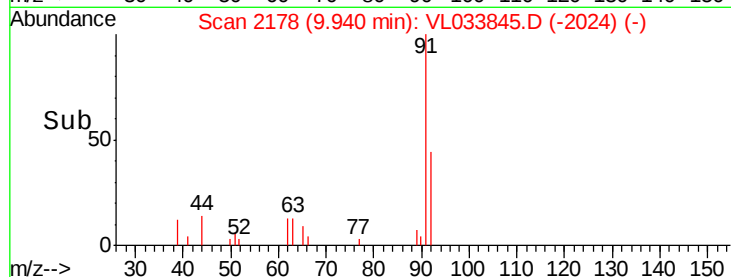
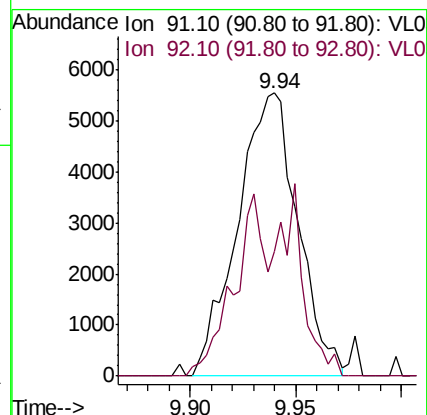
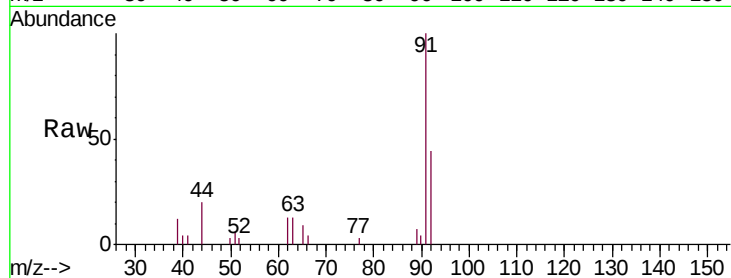
SG-25-20190522-ODL

Tgt Ion: 91 Resp: 11030

Ion Ratio Lower Upper

91 100

92 61.8 47.6 71.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

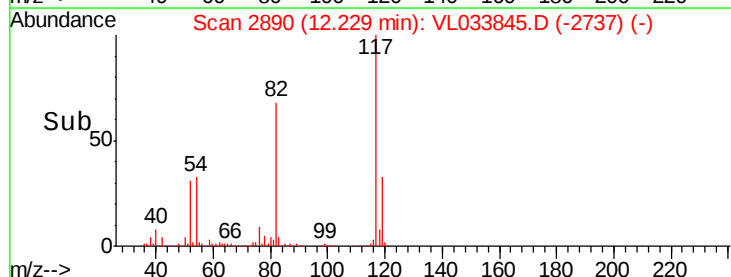
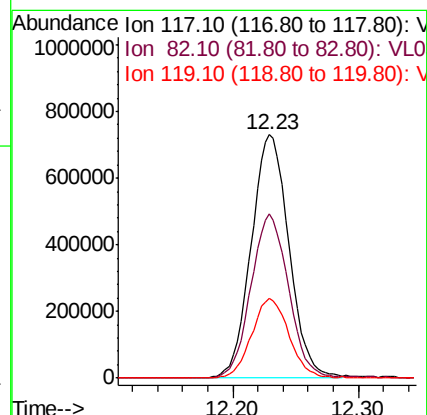
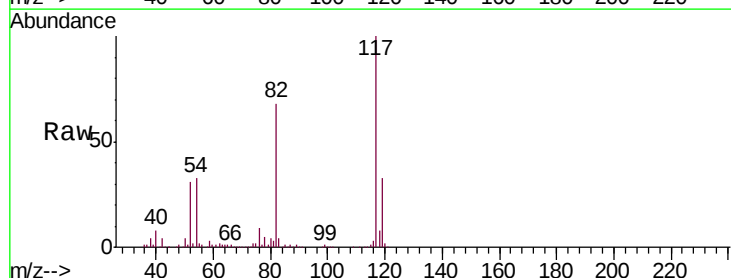
Tgt Ion: 117 Resp: 1528793

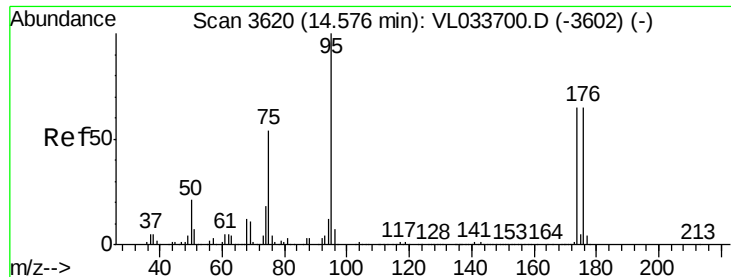
Ion Ratio Lower Upper

117 100

82 67.5 49.4 74.0

119 32.7 24.9 37.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.572 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033845.D

Acq: 29 May 2019 21:27

Instrument :

MSVOA_L

ClientSampleId :

SG-25-20190522-ODL

Tgt Ion: 95 Resp: 1310234

Ion Ratio Lower Upper

95 100

174 66.8 53.9 80.9

175 4.7 3.8 5.8

