

Data File : VL033697.D
Acq On : 14 May 2019 18:54
Operator : SY/AP
Sample : K2730-02DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS02DL

Quant Time: May 15 02:36:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	938125	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2282940	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2258858	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1790382 9.67 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 96.70%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.07	85	3427	0.016 ppbv	94
3) Chlorodifluoromethane	3.01	51	2948	0.022 ppbv #	80
4) Chloromethane	3.17	50	1224	0.017 ppbv #	64
9) Propene	3.24	41	328202	6.354 ppbv	93
13) Ethanol	3.65	45	4567	0.295 ppbv #	38
15) Acetone	3.92	43	662629	4.748 ppbv #	68
16) 1,3-Butadiene	3.34	39	4097	0.068 ppbv #	7
19) Isopropyl Alcohol	4.05	45	12773	0.149 ppbv #	93
20) Methylene Chloride	4.40	84	5261	0.099 ppbv	97
21) Allyl Chloride	4.65	41	6407	0.076 ppbv #	76
23) Vinyl Acetate	5.13	43	50265	0.277 ppbv #	1
25) Ethyl Acetate	5.77	43	5130	0.023 ppbv #	86
26) Hexane	5.77	57	12939	0.133 ppbv #	40
30) Cyclohexane	7.24	84	114350	1.395 ppbv #	81
34) 2-Butanone	5.33	43	2186	0.015 ppbv #	1
39) 1,2-Dichloropropane	7.29	63	570495	7.477 ppbv #	23
41) Tetrahydrofuran	6.42	42	55643	0.737 ppbv #	37
42) Bromodichloromethane	7.91	83	5614	0.030 ppbv #	45

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

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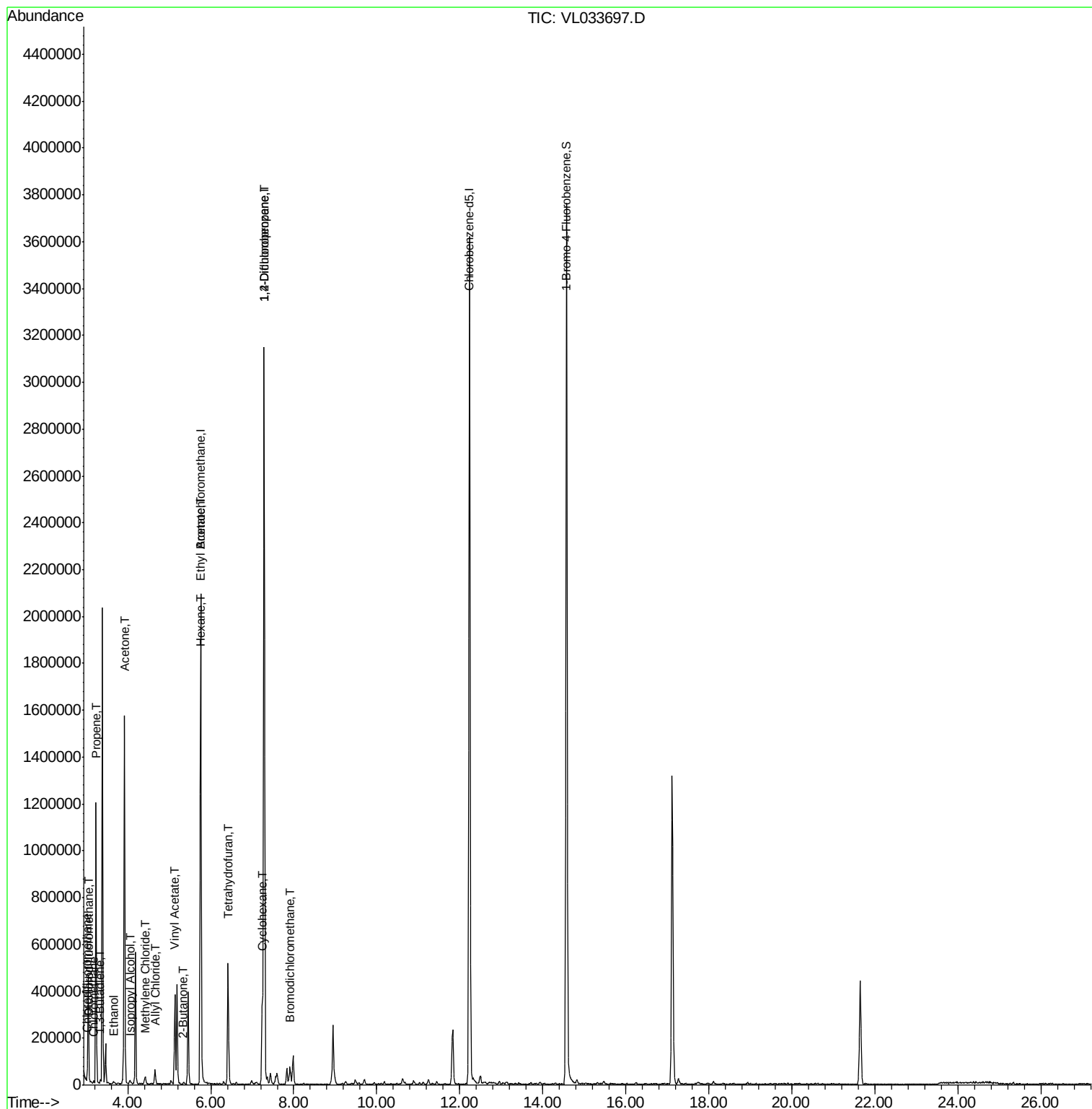
Quant Time: May 15 02:36:55 2019

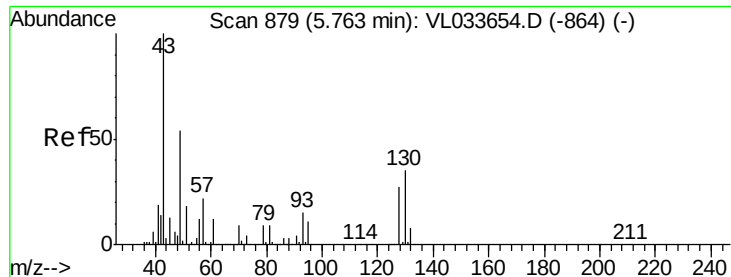
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019

QLast Update : Mon May 06 15:19:01 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: VL033697.D

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Instrument :

MSVOA_L

ClientSampleId :

SS02DL

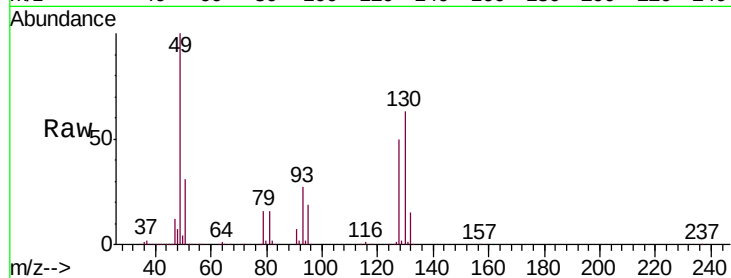
Tgt Ion: 49 Resp: 938125

Ion Ratio Lower Upper

49 100

128 50.7 24.8 74.3

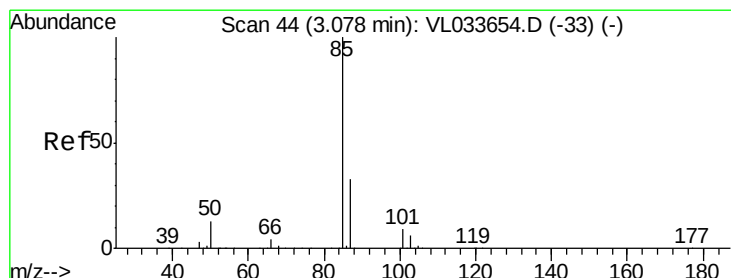
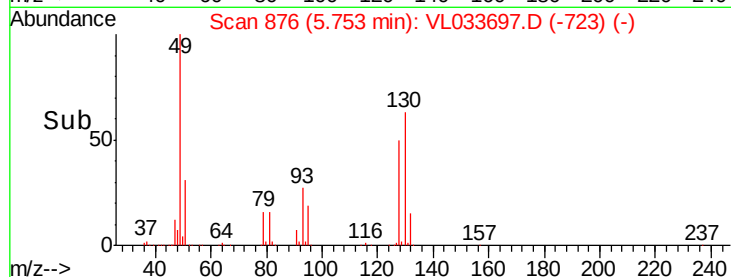
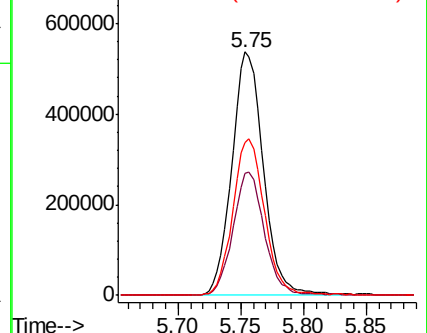
130 65.3 32.1 96.5



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



#2

Dichlorodifluoromethane

Concen: 0.016 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.01 min

Lab File: VL033697.D

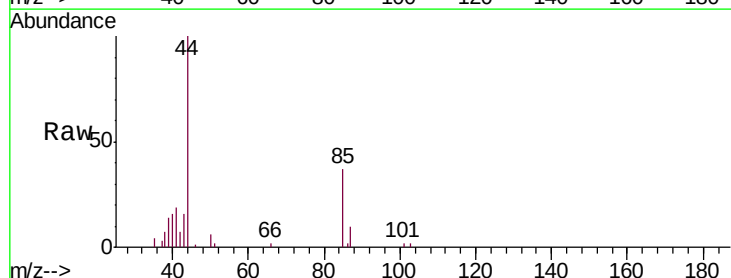
Acq: 14 May 2019 18:54

Tgt Ion: 85 Resp: 3427

Ion Ratio Lower Upper

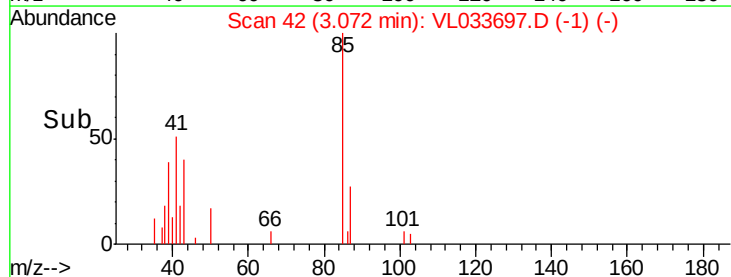
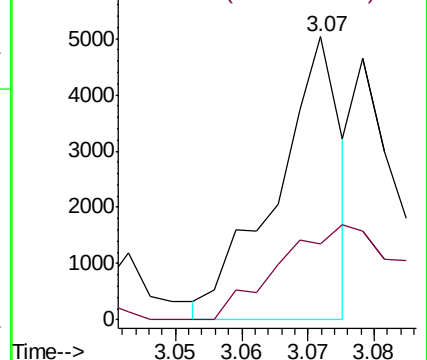
85 100

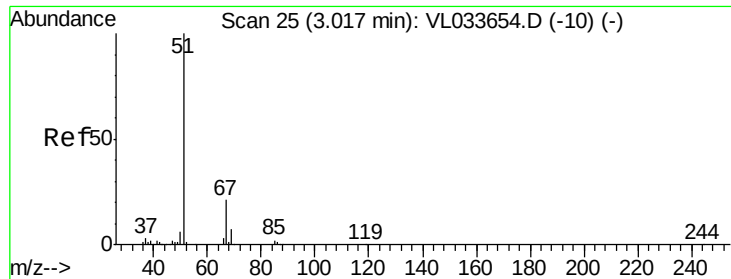
87 28.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.022 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Instrument :

MSVOA_L

ClientSampleId :

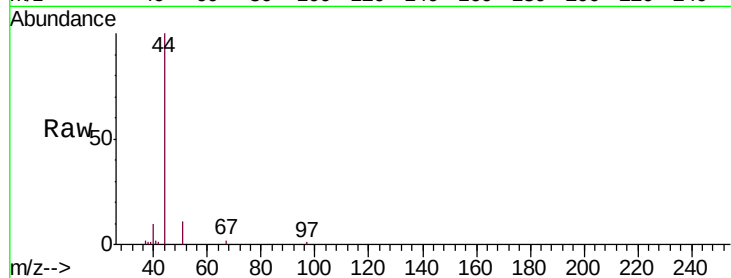
SS02DL

Tgt Ion: 51 Resp: 2948

Ion Ratio Lower Upper

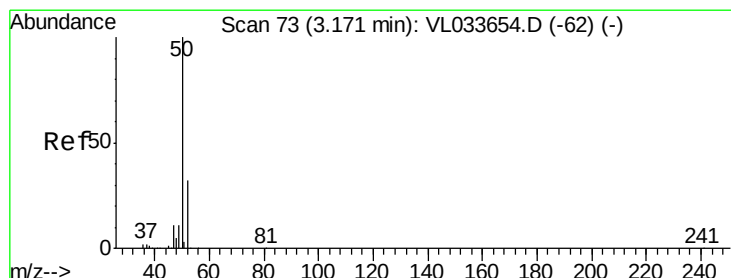
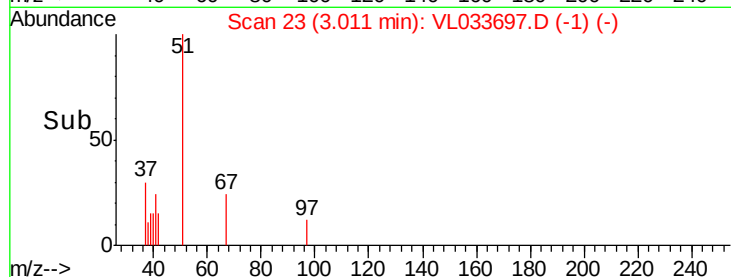
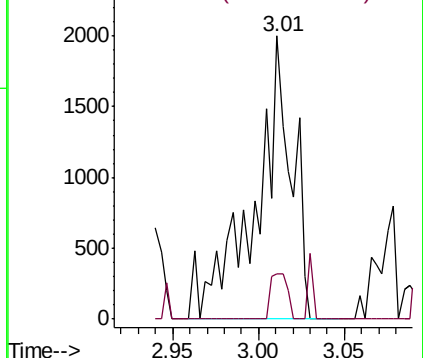
51 100

67 10.6 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.017 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL033697.D

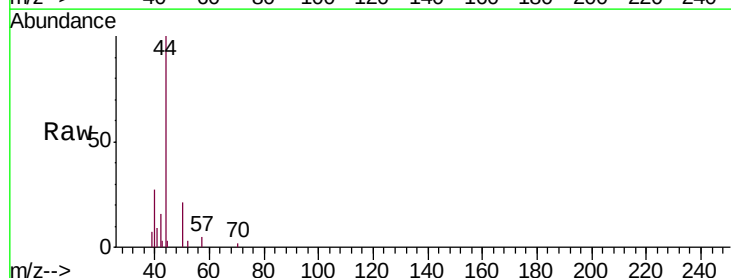
Acq: 14 May 2019 18:54

Tgt Ion: 50 Resp: 1224

Ion Ratio Lower Upper

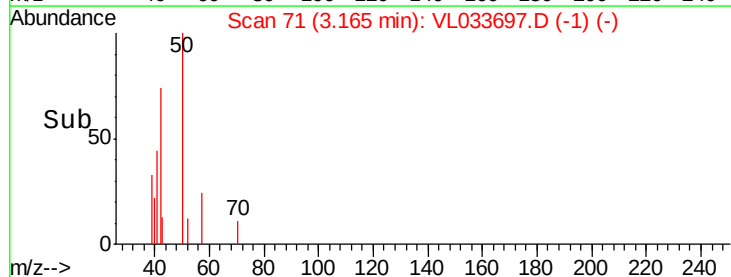
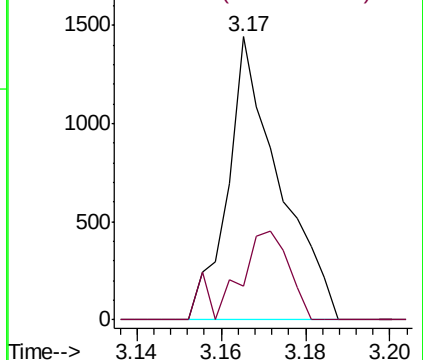
50 100

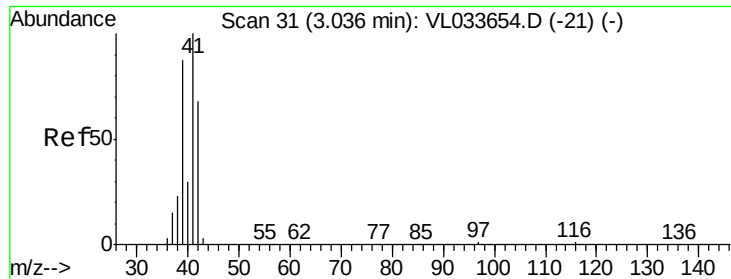
52 11.9 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 6.354 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Instrument :

MSVOA_L

ClientSampleId :

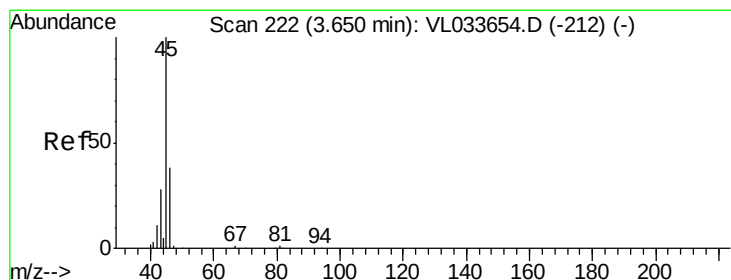
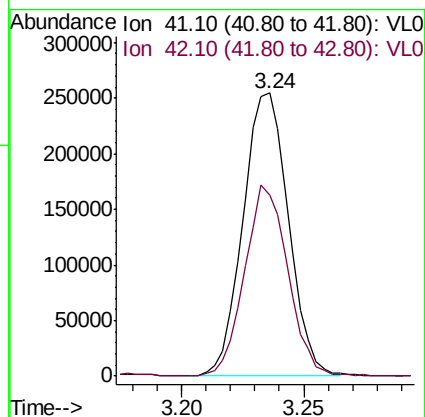
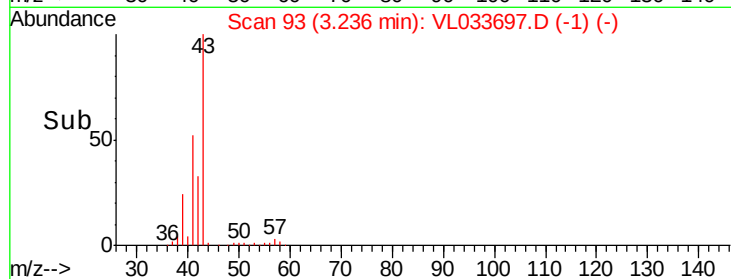
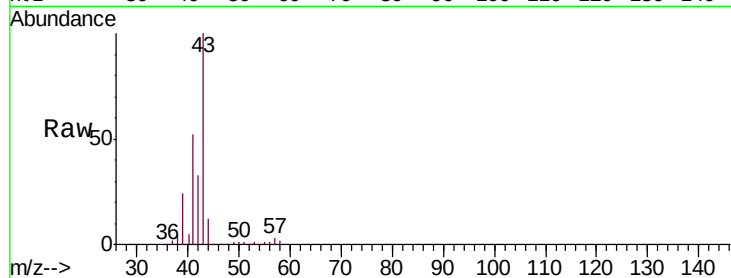
SS02DL

Tgt Ion: 41 Resp: 328202

Ion Ratio Lower Upper

41 100

42 63.8 55.6 83.4



#13

Ethanol

Concen: 0.295 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033697.D

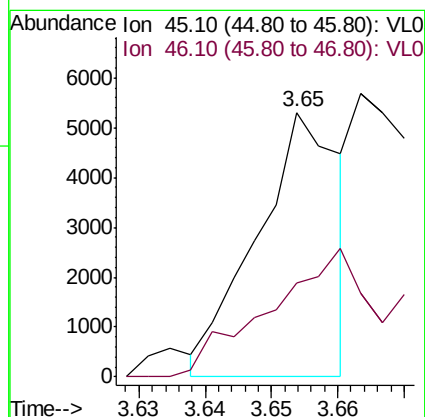
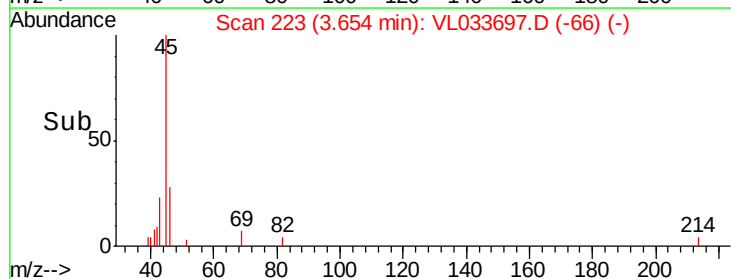
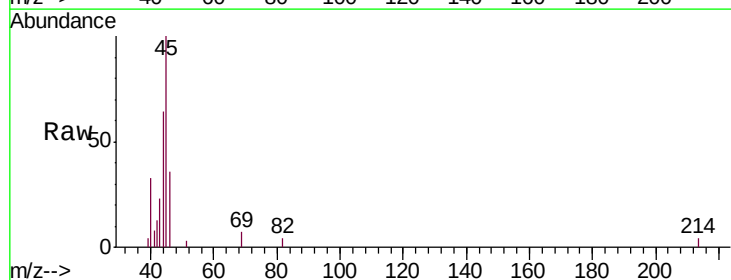
Acq: 14 May 2019 18:54

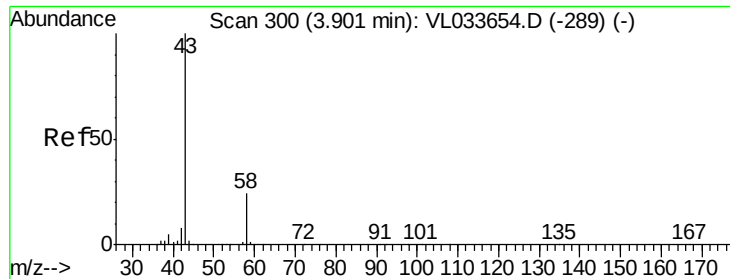
Tgt Ion: 45 Resp: 4567

Ion Ratio Lower Upper

45 100

46 0.0 14.9 59.7#





#15

Acetone

Concen: 4.748 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Instrument :

MSVOA_L

ClientSampleId :

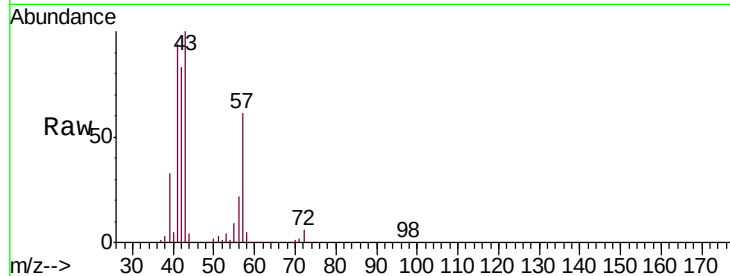
SS02DL

Tgt Ion: 43 Resp: 662629

Ion Ratio Lower Upper

43 100

58 9.6 20.9 31.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.92

400000

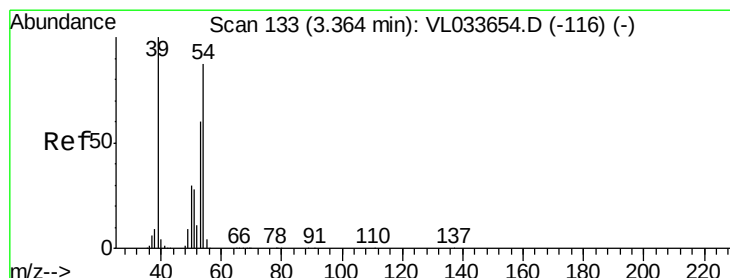
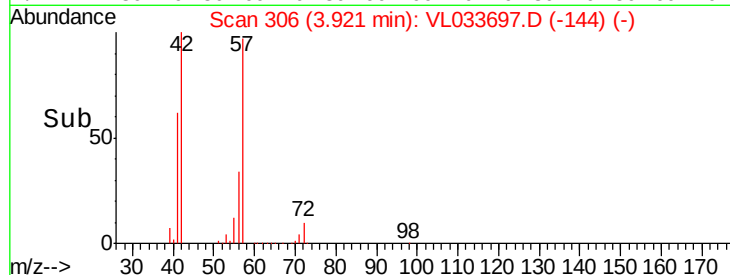
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 0.068 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033697.D

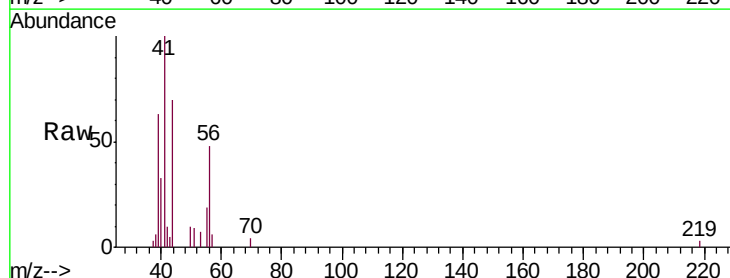
Acq: 14 May 2019 18:54

Tgt Ion: 39 Resp: 4097

Ion Ratio Lower Upper

39 100

54 0.0 67.0 100.4#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

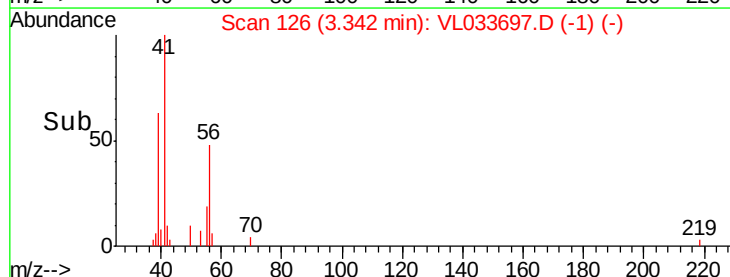
6000

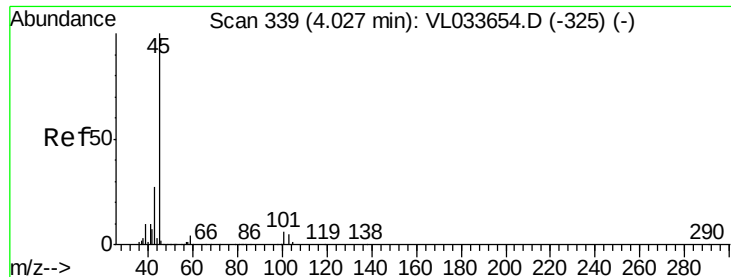
4000

2000

0

Time-->





#19

Isopropyl Alcohol

Concen: 0.149 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.02 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Instrument :

MSVOA_L

ClientSampleId :

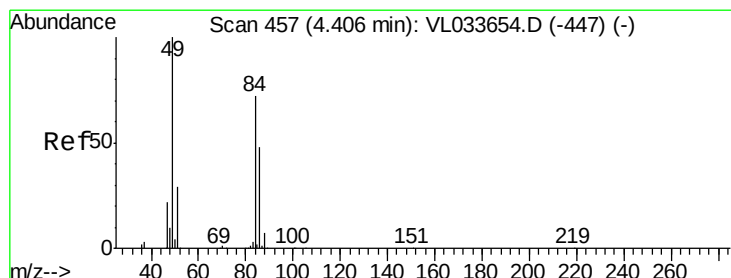
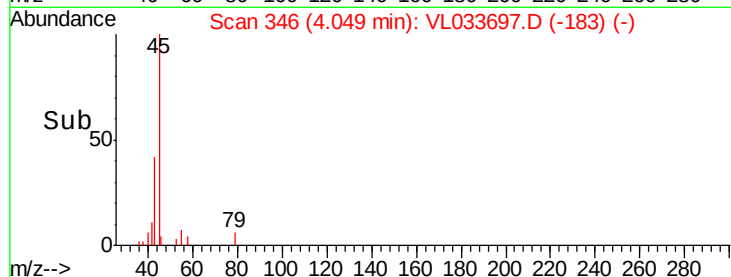
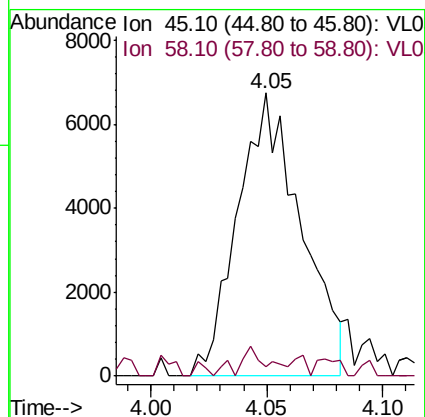
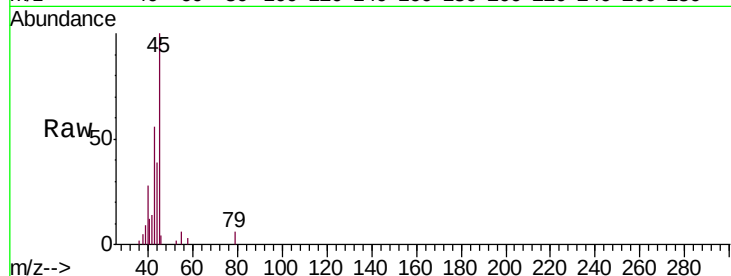
SS02DL

Tgt Ion: 45 Resp: 12773

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.099 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Tgt Ion: 84 Resp: 5261

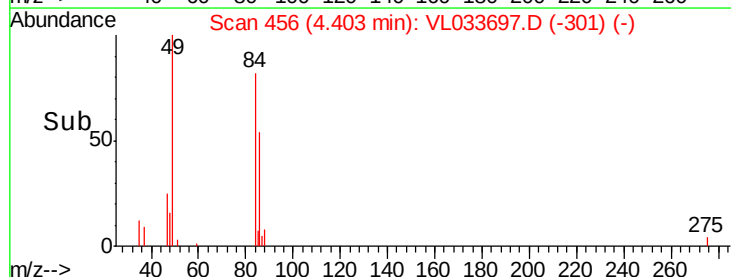
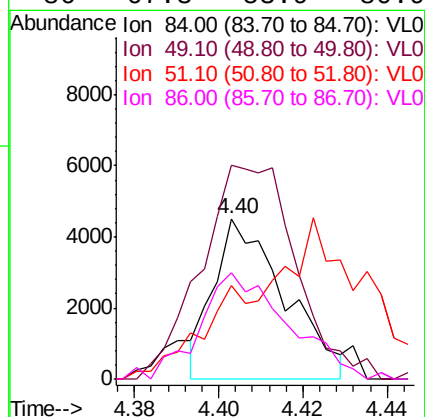
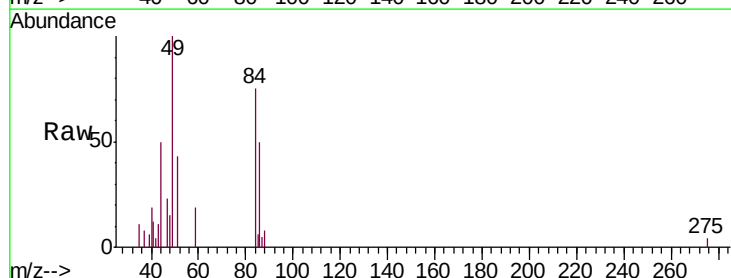
Ion Ratio Lower Upper

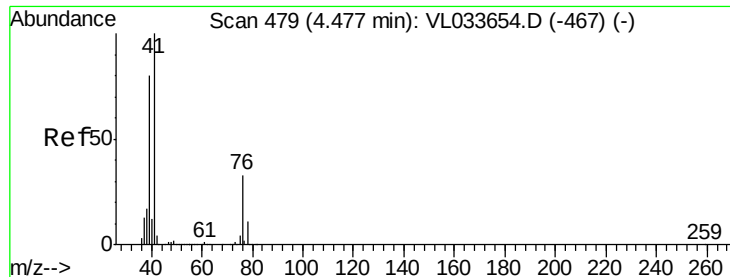
84 100

49 136.9 111.8 167.6

51 34.8 32.3 48.5

86 67.3 53.9 80.9





#21

Allyl Chloride

Concen: 0.076 ppbv

RT: 4.65 min Scan# 534

Delta R.T. 0.18 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

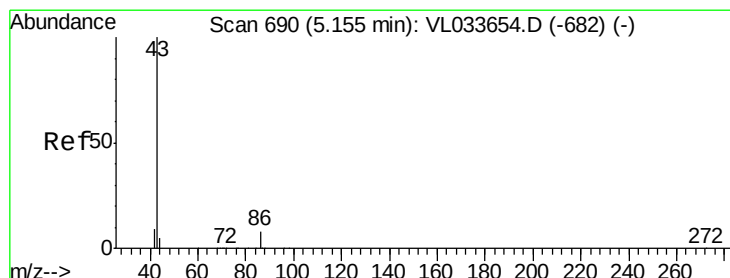
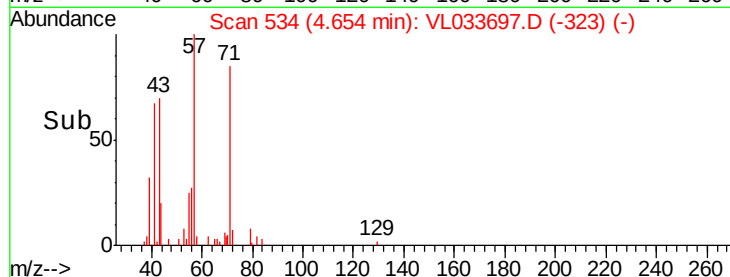
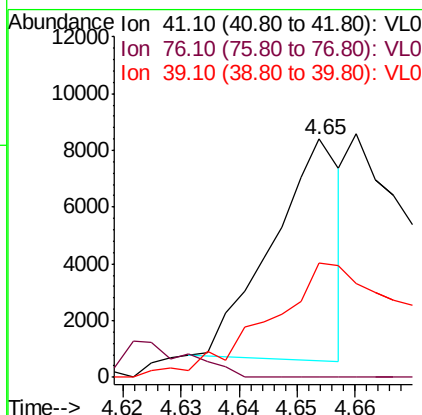
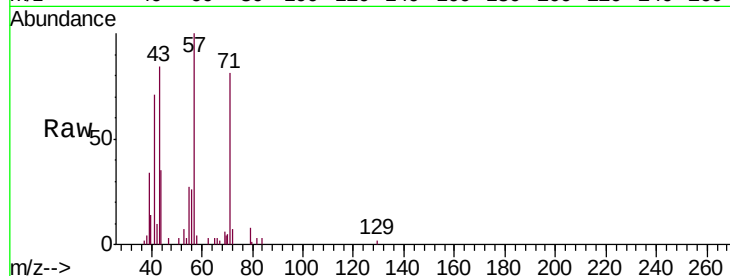
Instrument :

MSVOA_L

ClientSampleId :

SS02DL

Tgt Ion:	41	Resp:	6407
Ion	Ratio	Lower	Upper
41	100		
76	27.9	26.0	39.0
39	107.0	64.4	96.6#



#23

Vinyl Acetate

Concen: 0.277 ppbv

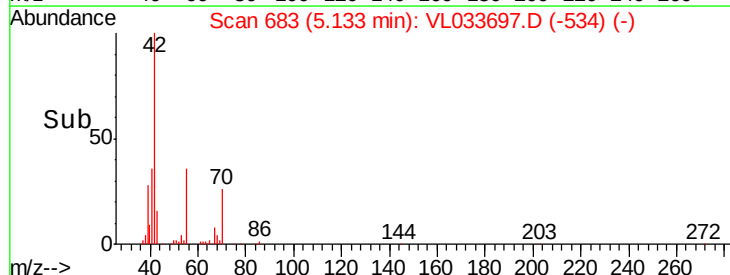
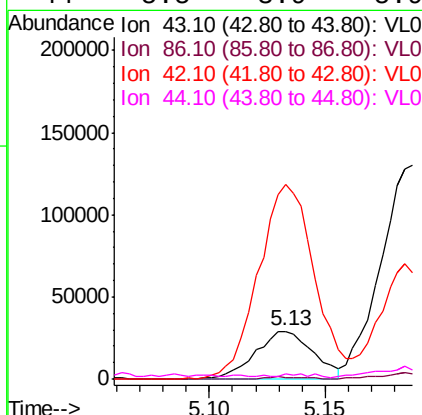
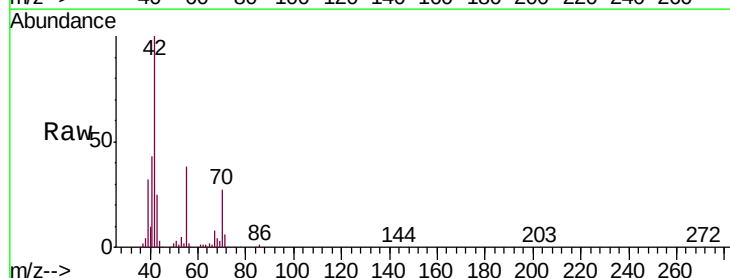
RT: 5.13 min Scan# 683

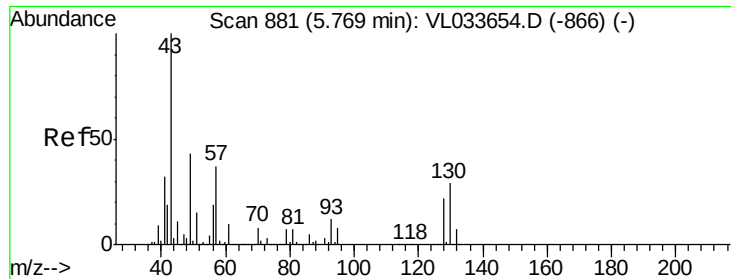
Delta R.T. -0.02 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Tgt Ion:	43	Resp:	50265
Ion	Ratio	Lower	Upper
43	100		
86	3.2	6.0	9.0#
42	405.0	8.0	12.0#
44	5.5	3.9	5.9





#25

Ethyl Acetate

Concen: 0.023 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Instrument :

MSVOA_L

ClientSampleId :

SS02DL

Tgt Ion: 43 Resp: 5130

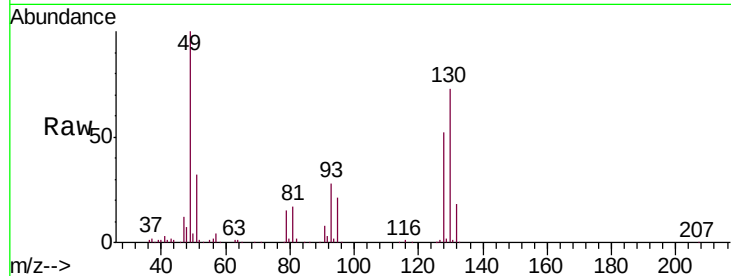
Ion Ratio Lower Upper

43 100

45 8.0 8.0 12.0

61 0.0 7.5 11.3#

70 3.2 5.8 8.8#

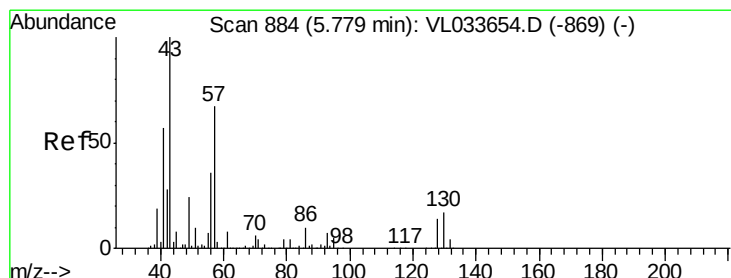
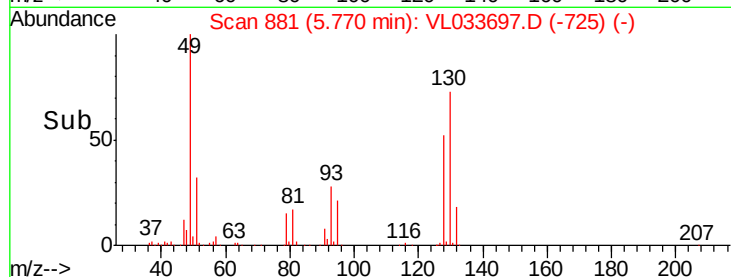
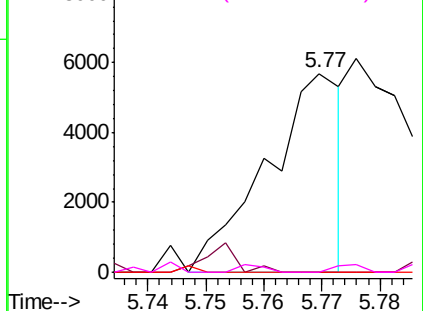


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.133 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Tgt Ion: 57 Resp: 12939

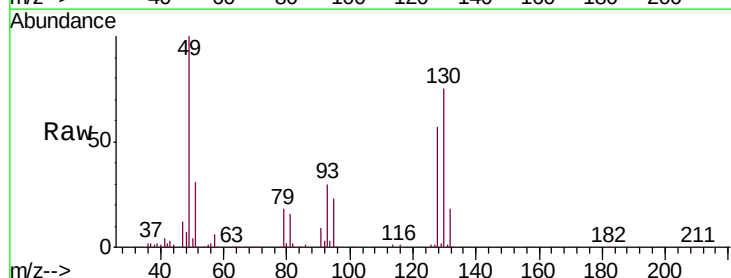
Ion Ratio Lower Upper

57 100

41 105.2 69.7 104.5#

43 83.5 181.9 272.9#

56 60.4 42.5 63.7

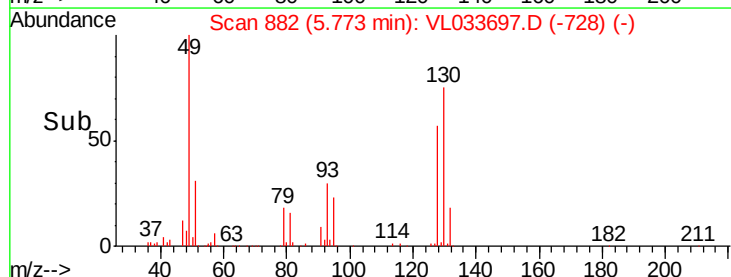
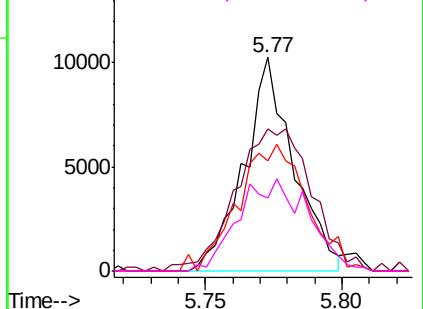


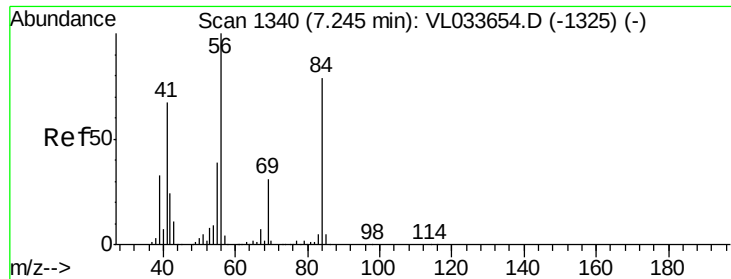
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

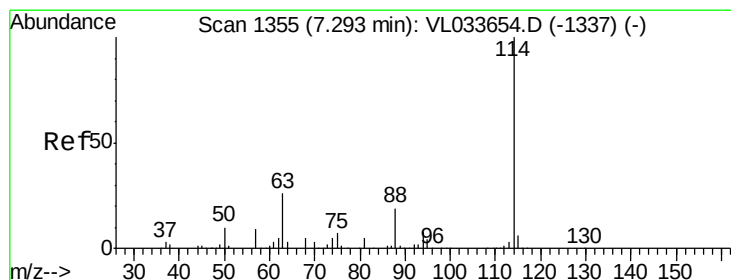
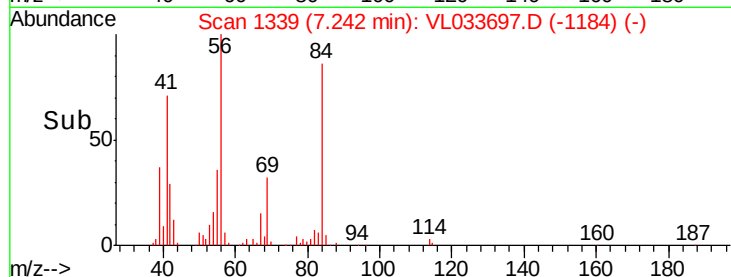
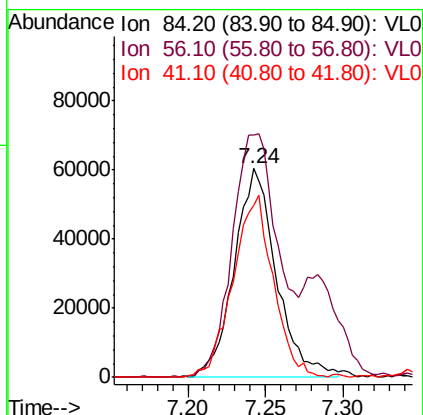
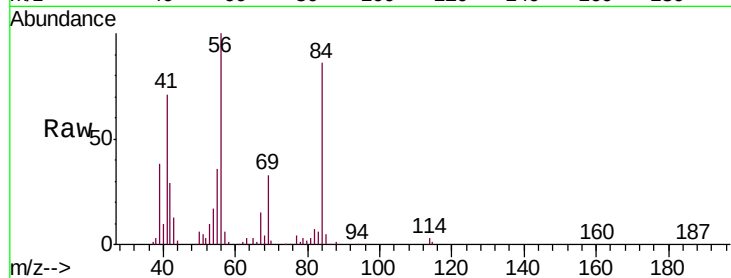




#30
Cyclohexane
Concen: 1.395 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033697.D
Acq: 14 May 2019 18:54

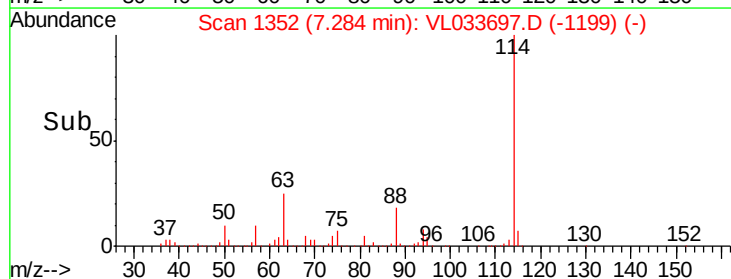
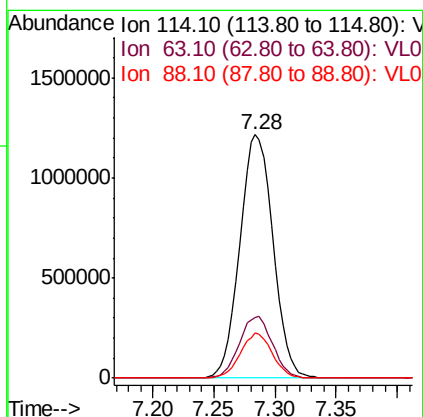
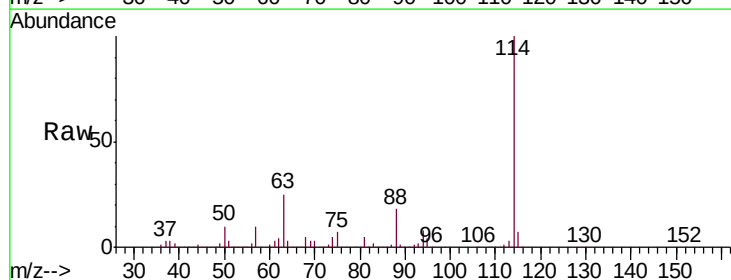
Instrument :
MSVOA_L
ClientSampleId :
SS02DL

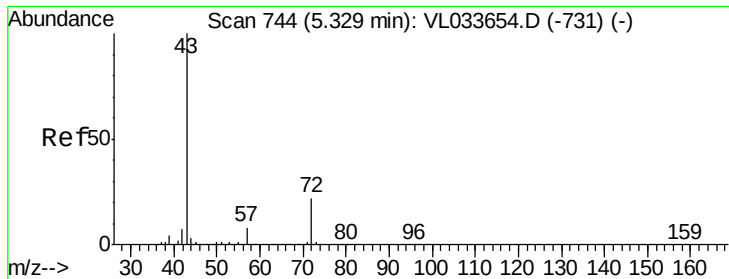
Tgt Ion: 84 Resp: 114350
Ion Ratio Lower Upper
84 100
56 170.1 107.0 160.4#
41 83.7 66.6 99.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033697.D
Acq: 14 May 2019 18:54

Tgt Ion: 114 Resp: 2282940
Ion Ratio Lower Upper
114 100
63 25.4 21.3 31.9
88 17.7 14.4 21.6





#34

2-Butanone

Concen: 0.015 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.00 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Instrument :

MSVOA_L

ClientSampleId :

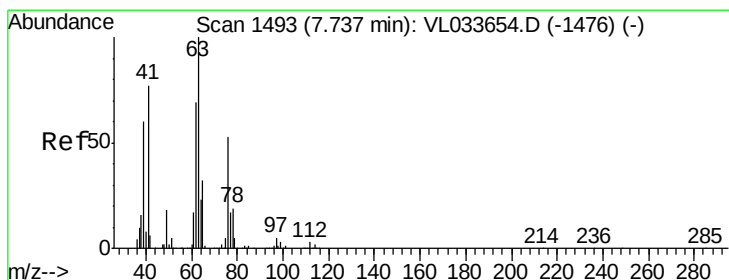
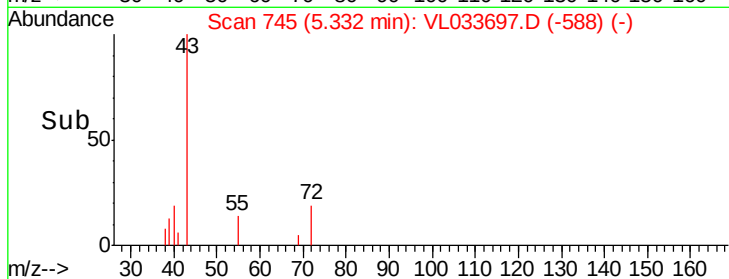
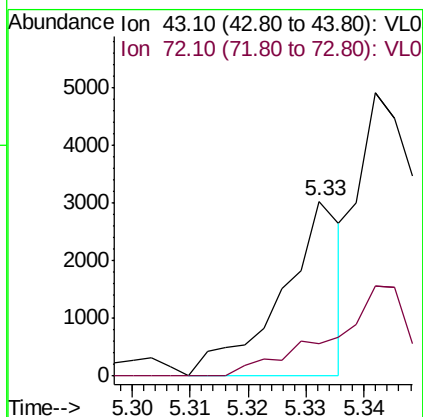
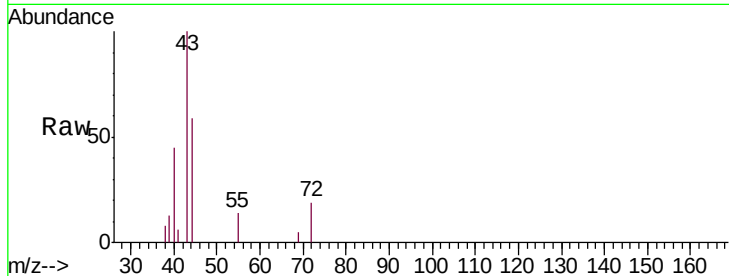
SS02DL

Tgt Ion: 43 Resp: 2186

Ion Ratio Lower Upper

43 100

72 99.0 17.5 26.3#



#39

1,2-Dichloropropane

Concen: 7.477 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

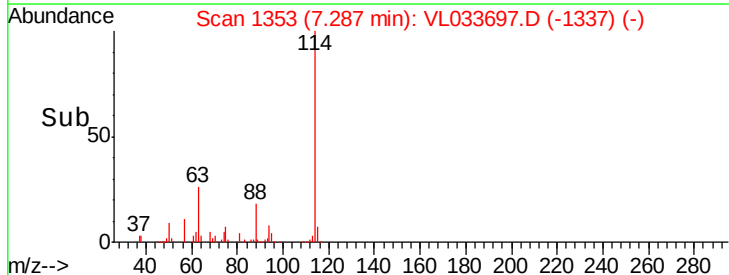
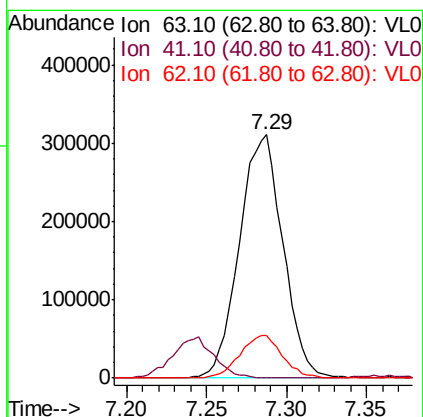
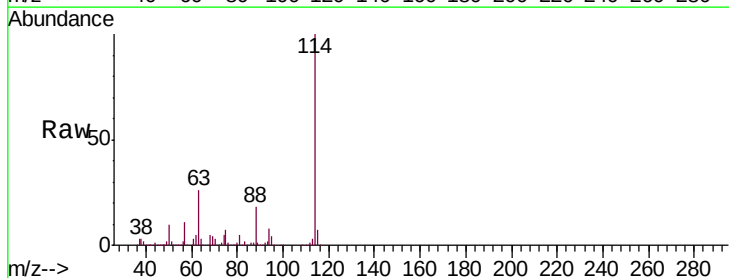
Tgt Ion: 63 Resp: 570495

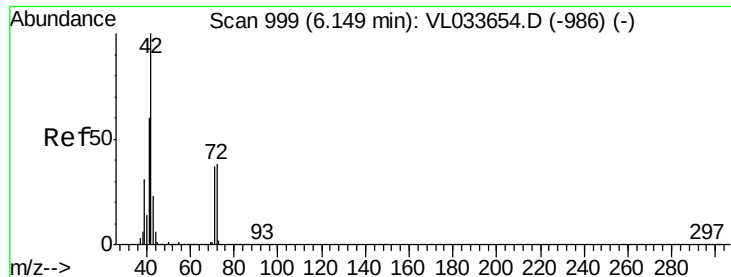
Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 17.4 55.0 82.6#





#41

Tetrahydrofuran

Concen: 0.737 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. 0.27 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

Instrument :

MSVOA_L

ClientSampleId :

SS02DL

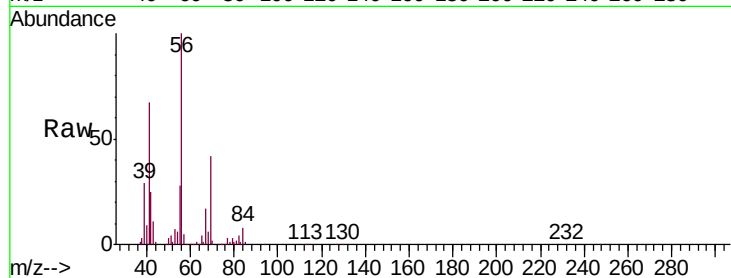
Tgt Ion: 42 Resp: 55643

Ion Ratio Lower Upper

42 100

72 0.3 31.6 47.4#

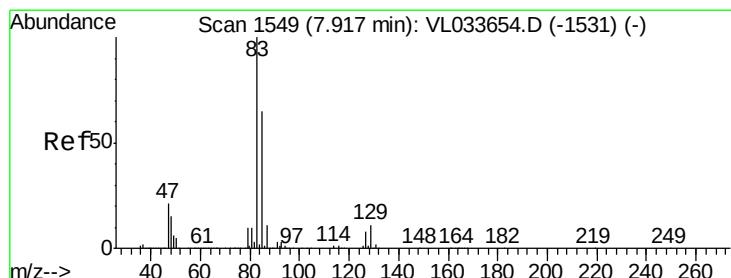
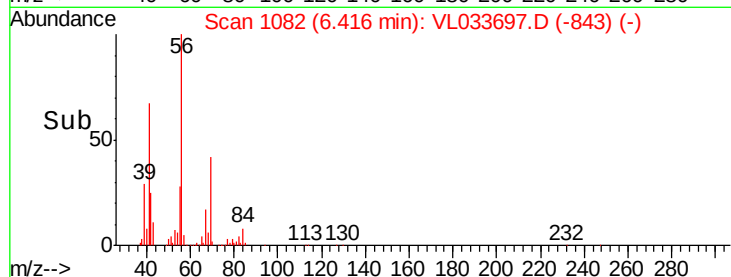
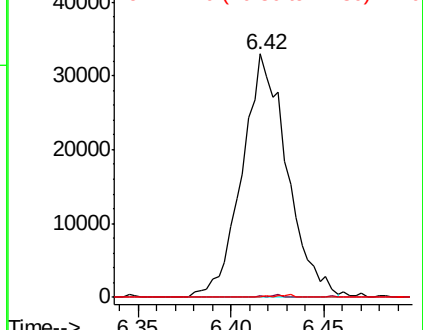
71 0.4 30.6 46.0#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.030 ppbv

RT: 7.91 min Scan# 1546

Delta R.T. -0.01 min

Lab File: VL033697.D

Acq: 14 May 2019 18:54

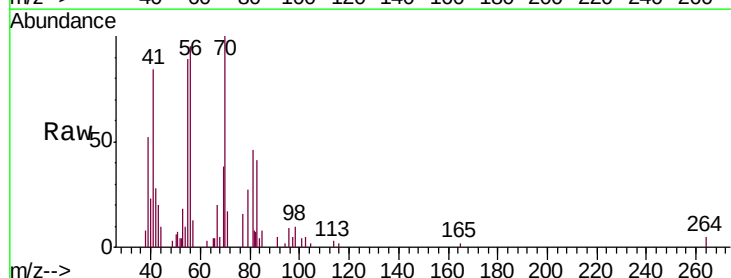
Tgt Ion: 83 Resp: 5614

Ion Ratio Lower Upper

83 100

85 19.1 52.4 78.6#

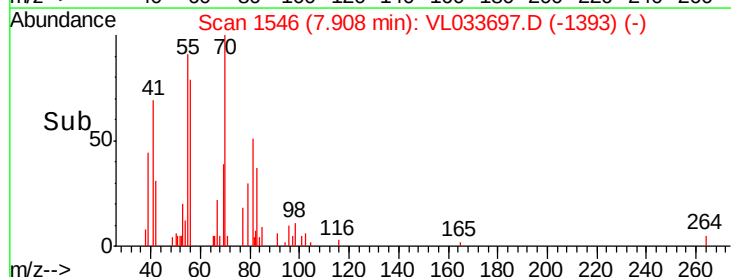
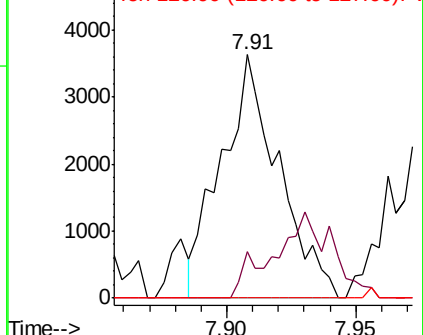
127 0.0 6.6 9.8#

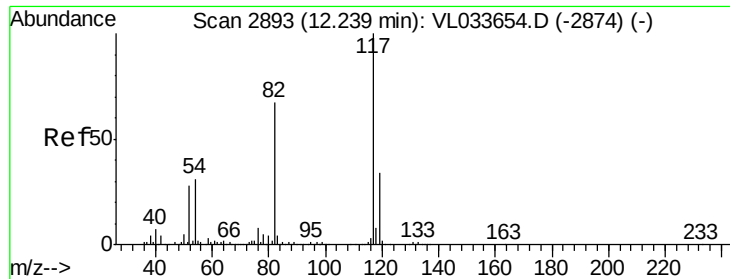


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

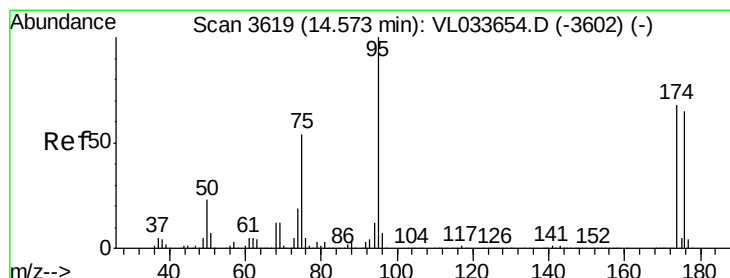
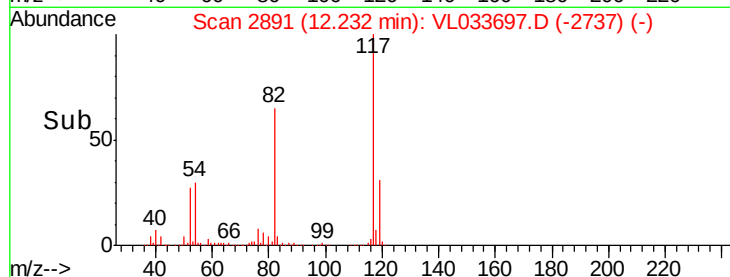
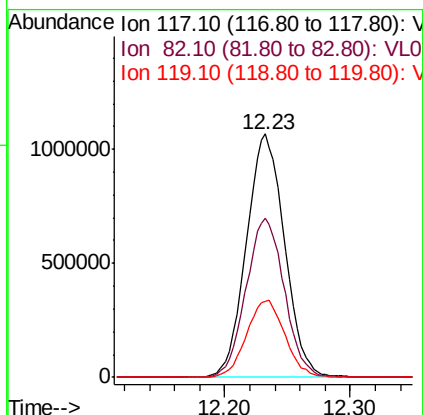
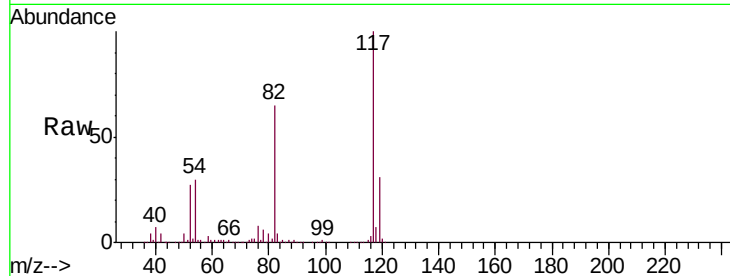




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033697.D
Acq: 14 May 2019 18:54

Instrument :
MSVOA_L
ClientSampleId :
SS02DL

Tgt Ion: 117 Resp: 2258858
Ion Ratio Lower Upper
117 100
82 65.7 49.7 74.5
119 32.0 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.669 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL033697.D
Acq: 14 May 2019 18:54

Tgt Ion: 95 Resp: 1790382
Ion Ratio Lower Upper
95 100
174 67.4 54.0 81.0
175 4.8 3.8 5.8

