

Data File : VL033711.D
Acq On : 17 May 2019 11:21
Operator : SY/AP
Sample : K2893-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-01DL

Quant Time: May 17 23:19:54 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	1151920	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2748714	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2858578	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 2364208 10.20 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.00%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	3.07	85	11269	0.046	ppbv #	81
3) Chlorodifluoromethane	3.39	51	71510	0.542	ppbv #	58
4) Chloromethane	3.24	50	35148	0.466	ppbv #	66
9) Propene	3.24	41	1372589	24.457	ppbv	92
10) Heptane	8.25	43	111046	0.699	ppbv	100
11) Trichlorofluoromethane	4.06	101	145844	0.629	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.06	101	107030	0.662	ppbv #	13
13) Ethanol	3.65	45	96803	5.337	ppbv	98
15) Acetone	3.89	43	2394263	14.981	ppbv	95
16) 1,3-Butadiene	3.34	39	212869	3.345	ppbv #	12
17) tert-Butyl alcohol	4.37	59	4007	0.031	ppbv #	72
19) Isopropyl Alcohol	4.06	45	501131	4.863	ppbv #	94
20) Methylene Chloride	4.40	84	5204	0.085	ppbv	91
21) Allyl Chloride	4.66	41	79451	0.797	ppbv #	51
23) Vinyl Acetate	5.14	43	82966	0.394	ppbv #	1
25) Ethyl Acetate	5.77	43	171439	0.611	ppbv #	82
26) Hexane	5.78	57	243917	2.021	ppbv #	40
27) Carbon Disulfide	4.62	76	58362	0.352	ppbv	97
30) Cyclohexane	7.24	84	70085	0.691	ppbv	95
34) 2-Butanone	5.33	43	21654	0.127	ppbv #	64
36) Benzene	7.00	78	125892	0.503	ppbv	97
39) 1,2-Dichloropropane	7.29	63	718890	7.712	ppbv #	23
41) Tetrahydrofuran	6.41	42	7131	0.075	ppbv #	36
44) 2,2,4-Trimethylpentane	7.99	57	36859	0.087	ppbv #	1
51) 2-Hexanone	10.24	43	30230	0.148	ppbv #	29
53) Toluene	9.94	91	265525	0.985	ppbv	98
58) Ethyl Benzene	12.86	91	1053857	2.784	ppbv	100
59) m/p-Xylene	13.11	91	1469541	4.441	ppbv	99
60) o-Xylene	13.84	91	349932	1.049	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	8529	0.036	ppbv #	1

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

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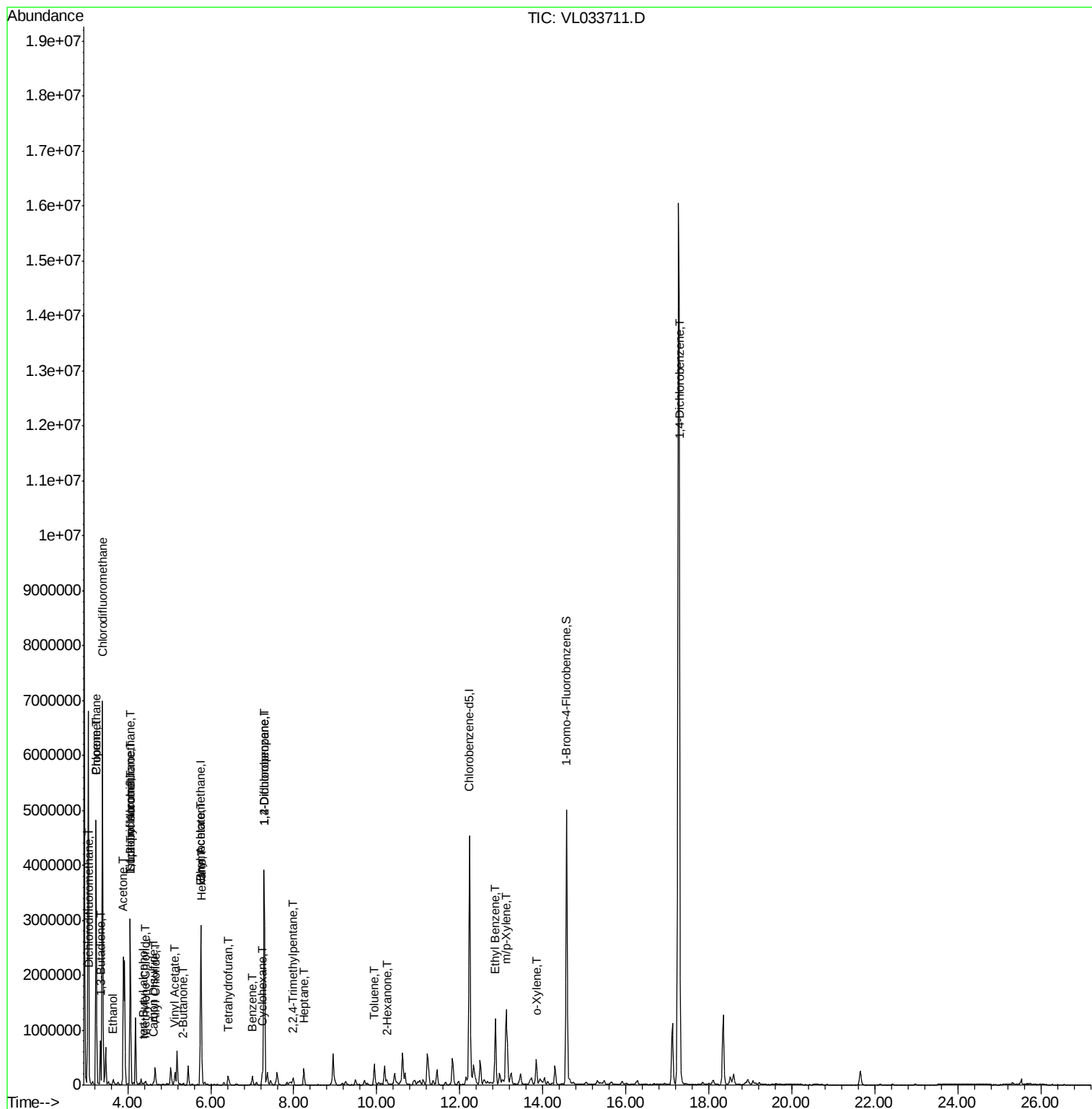
Quant Time: May 17 23:19:54 2019

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: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033711.D

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MSVOA_L

ClientSampleId :

SV-01DL

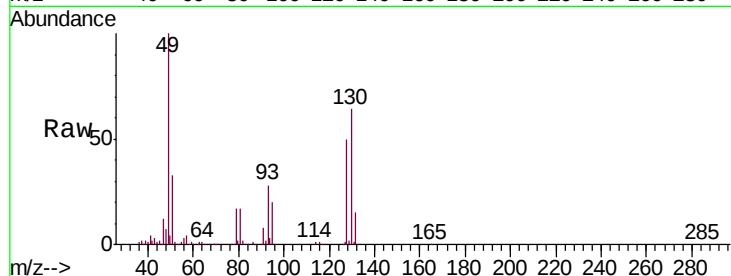
Tgt Ion: 49 Resp: 1151920

Ion Ratio Lower Upper

49 100

128 50.8 25.2 75.6

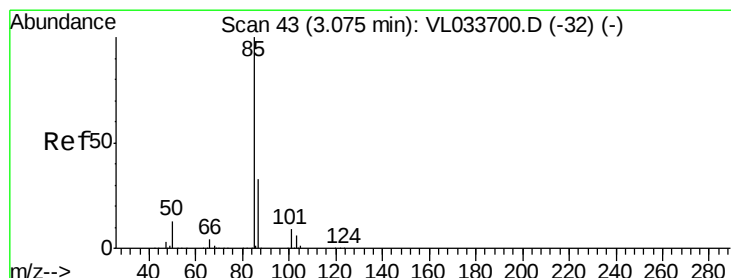
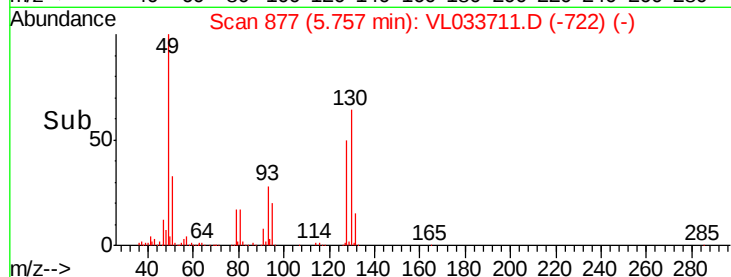
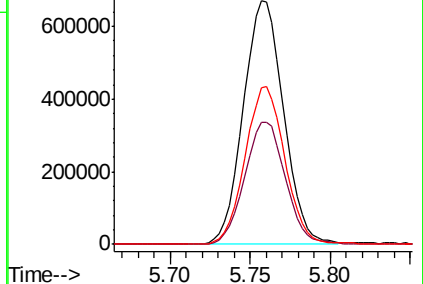
130 64.1 32.5 97.5



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



#2

Dichlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.07 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033711.D

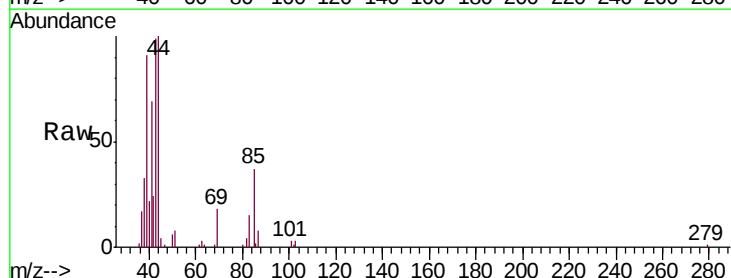
Acq: 17 May 2019 11:21

Tgt Ion: 85 Resp: 11269

Ion Ratio Lower Upper

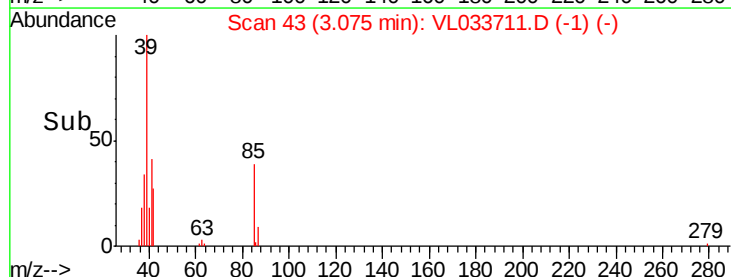
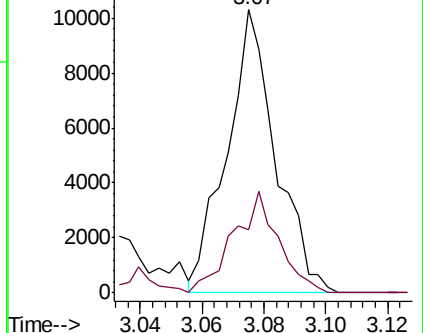
85 100

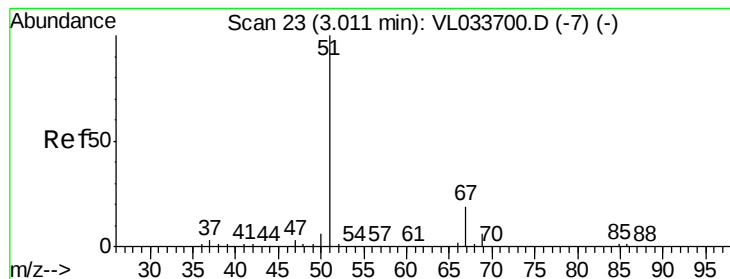
87 22.1 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.542 ppbv

RT: 3.39 min Scan# 142

Delta R.T. 0.38 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

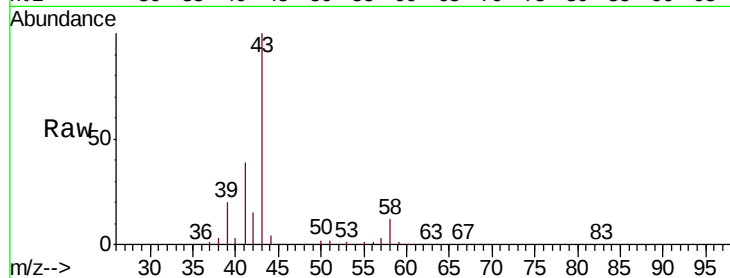
SV-01DL

Tgt Ion: 51 Resp: 71510

Ion Ratio Lower Upper

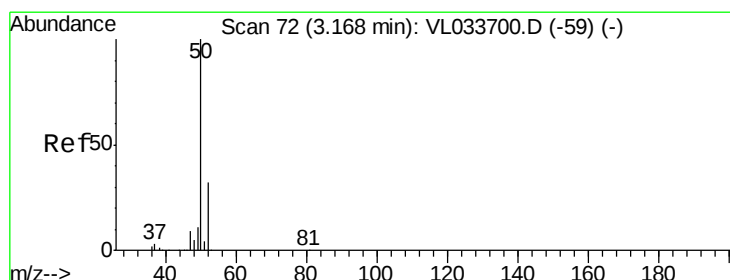
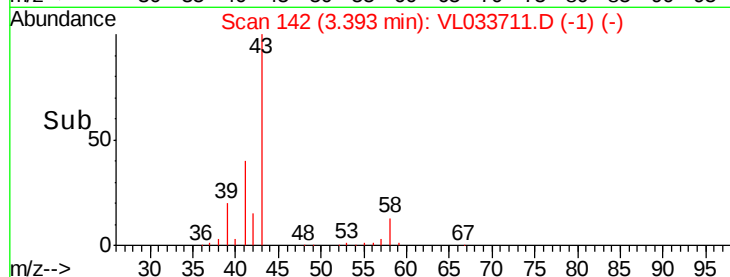
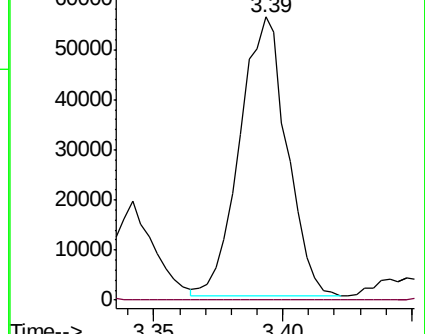
51 100

67 0.3 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: 0.466 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.07 min

Lab File: VL033711.D

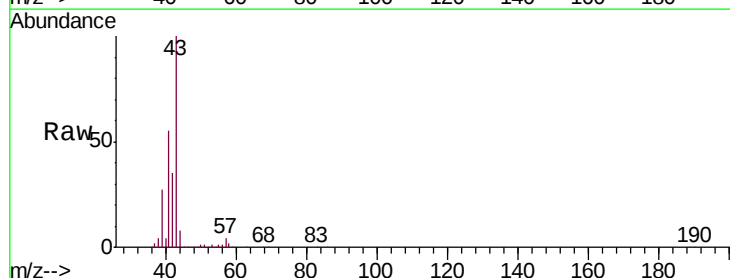
Acq: 17 May 2019 11:21

Tgt Ion: 50 Resp: 35148

Ion Ratio Lower Upper

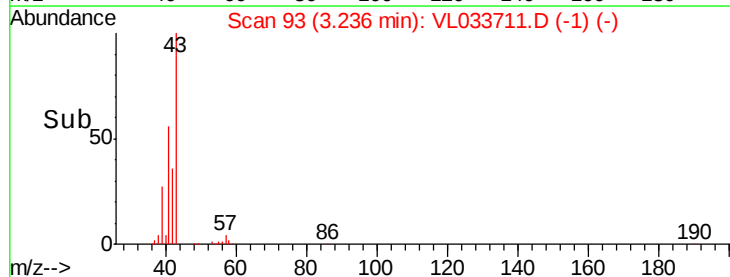
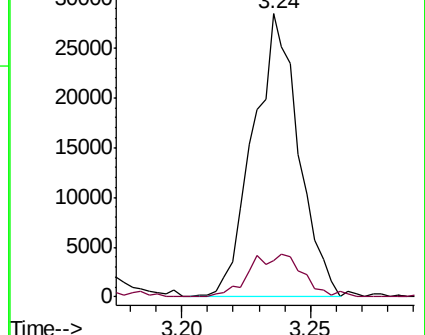
50 100

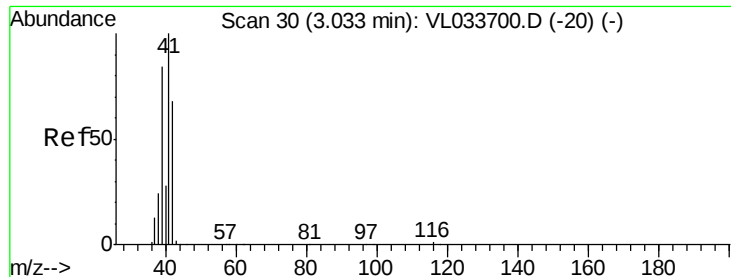
52 12.9 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 24.457 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

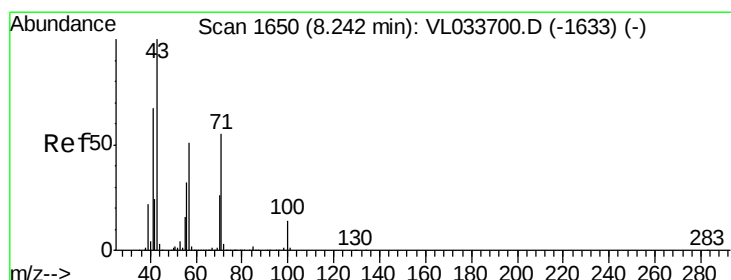
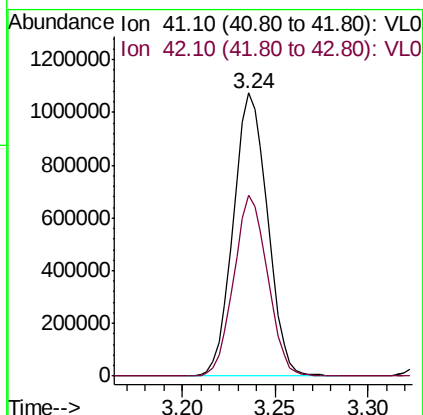
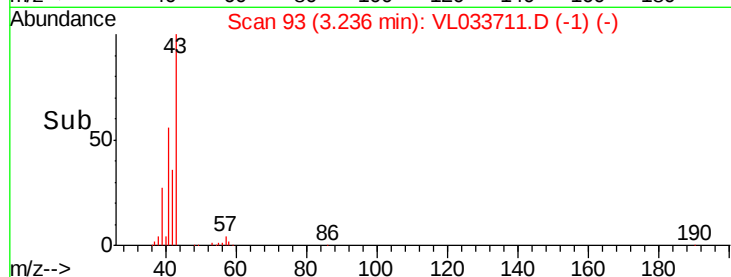
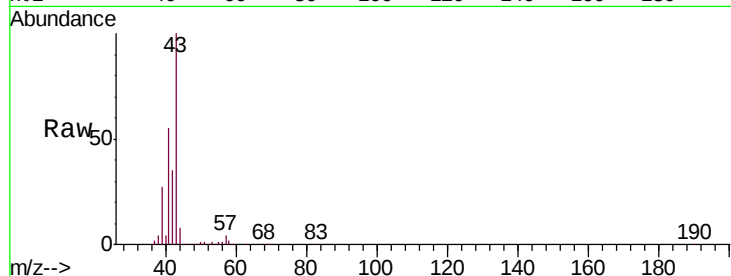
SV-01DL

Tgt Ion: 41 Resp: 1372589

Ion Ratio Lower Upper

41 100

42 63.2 56.1 84.1



#10

Heptane

Concen: 0.699 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033711.D

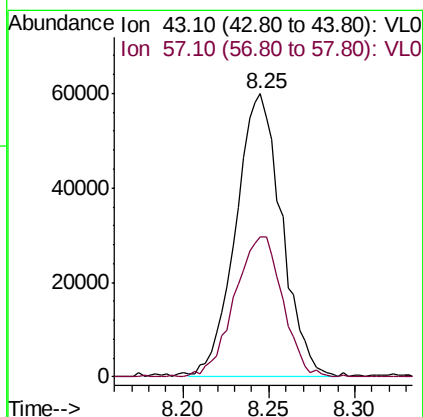
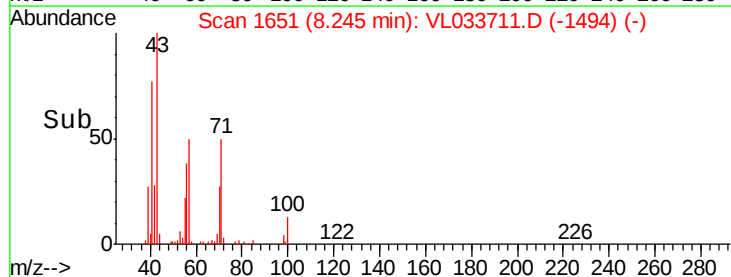
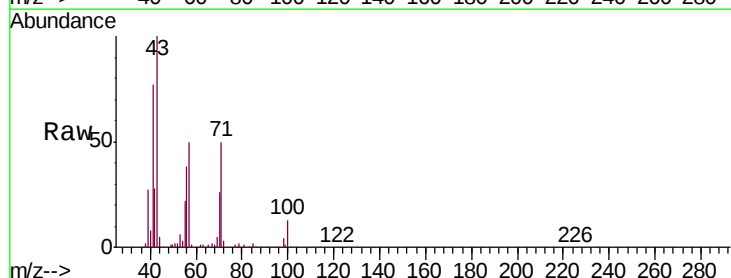
Acq: 17 May 2019 11:21

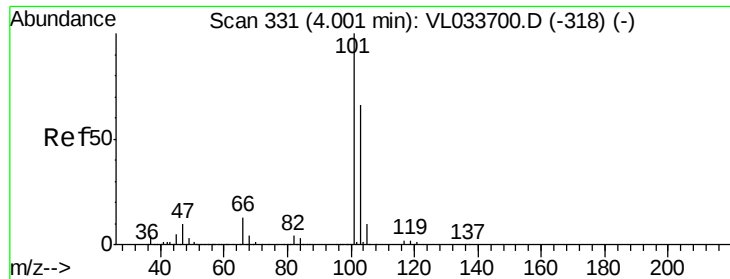
Tgt Ion: 43 Resp: 111046

Ion Ratio Lower Upper

43 100

57 52.0 41.4 62.0

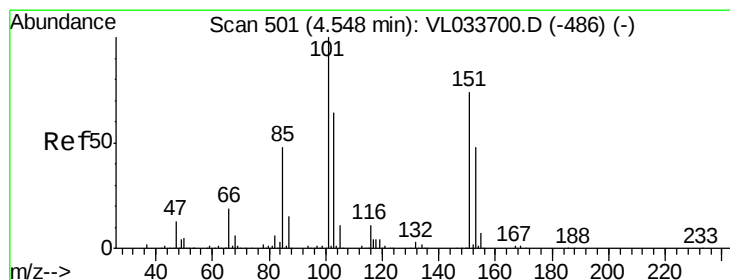
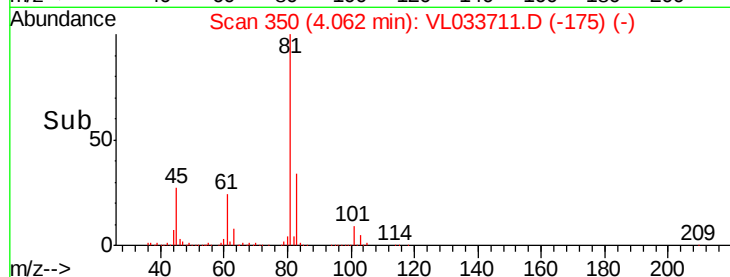
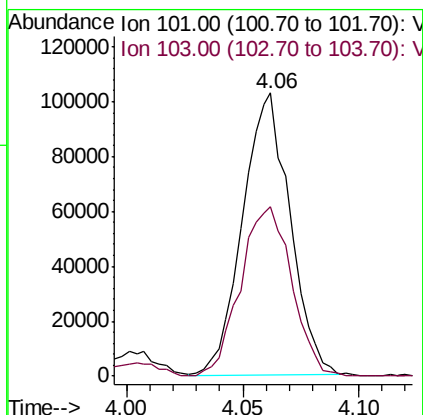
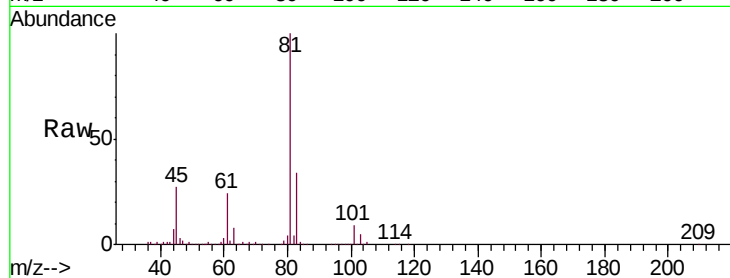




#11
 Trichlorofluoromethane
 Concen: 0.629 ppbv
 RT: 4.06 min Scan# 350
 Delta R.T. 0.06 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

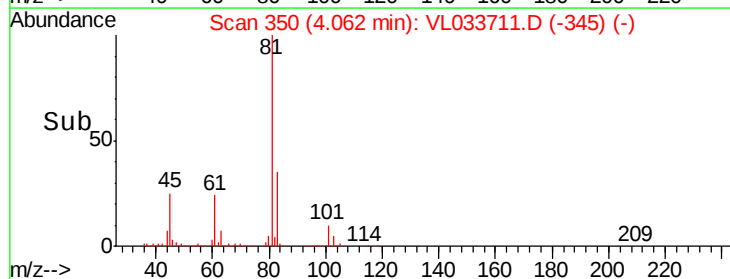
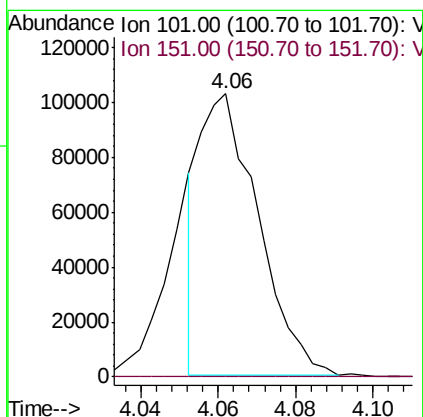
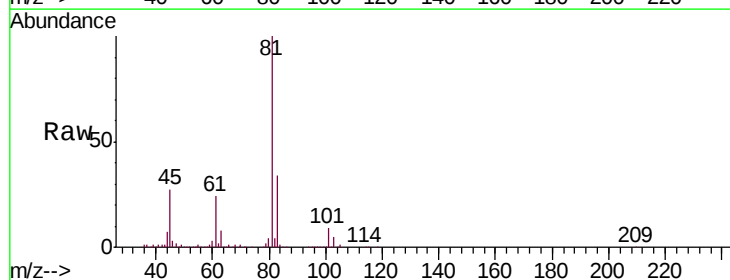
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01DL

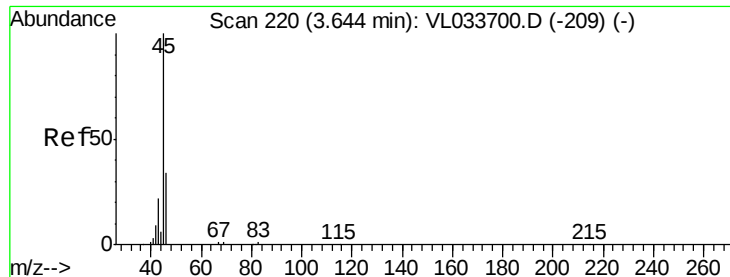
Tgt Ion:101 Resp: 145844
 Ion Ratio Lower Upper
 101 100
 103 59.7 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.662 ppbv
 RT: 4.06 min Scan# 350
 Delta R.T. -0.49 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

Tgt Ion:101 Resp: 107030
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.2 87.4#





#13

Ethanol

Concen: 5.337 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

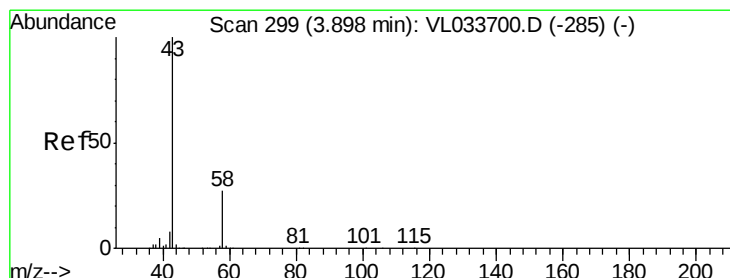
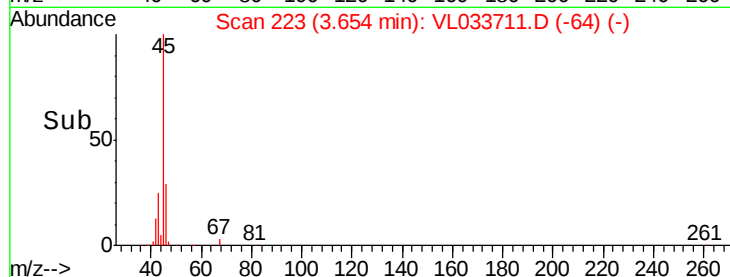
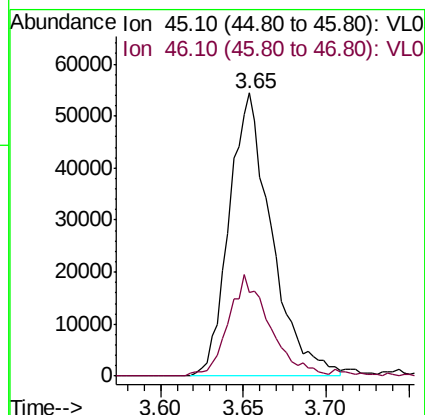
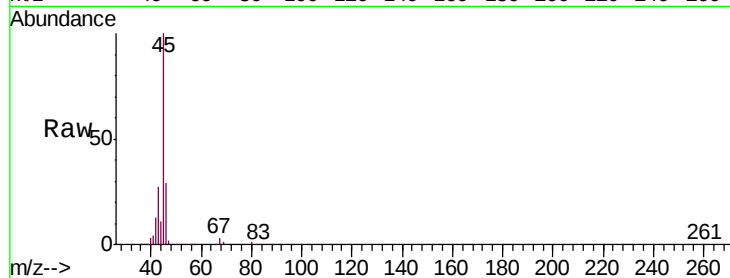
SV-01DL

Tgt Ion: 45 Resp: 96803

Ion Ratio Lower Upper

45 100

46 36.0 14.8 59.0



#15

Acetone

Concen: 14.981 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033711.D

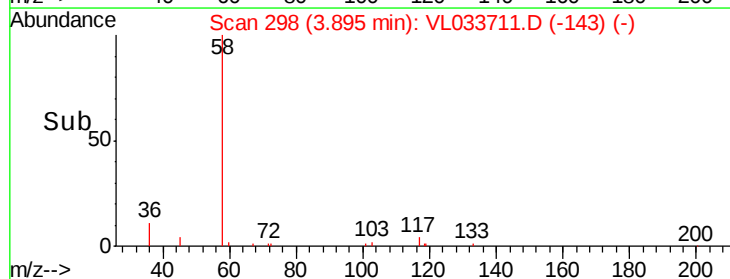
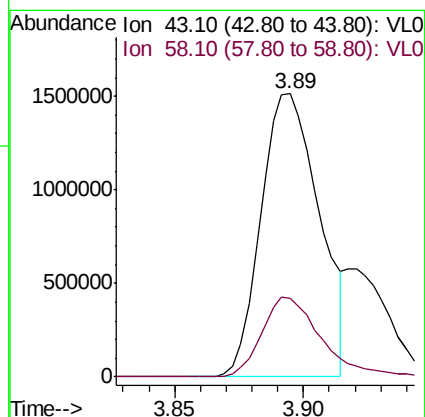
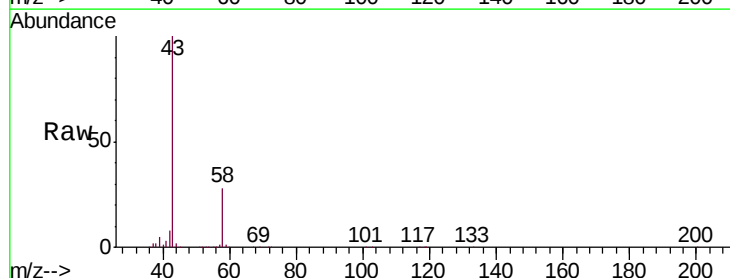
Acq: 17 May 2019 11:21

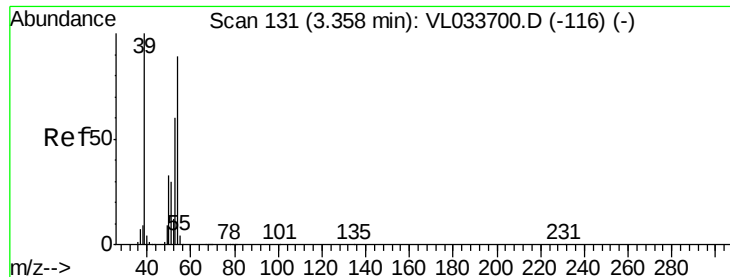
Tgt Ion: 43 Resp: 2394263

Ion Ratio Lower Upper

43 100

58 28.9 21.3 31.9

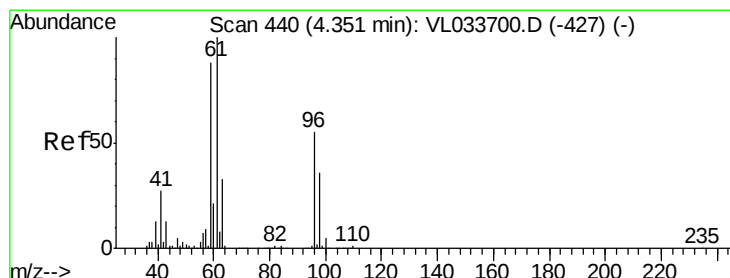
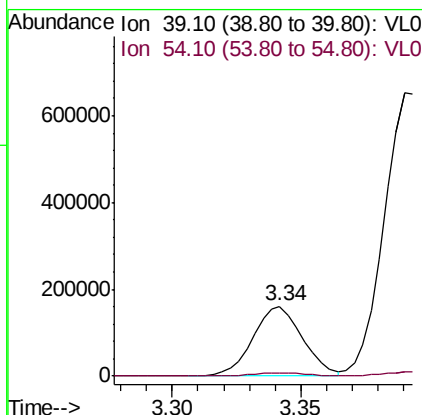
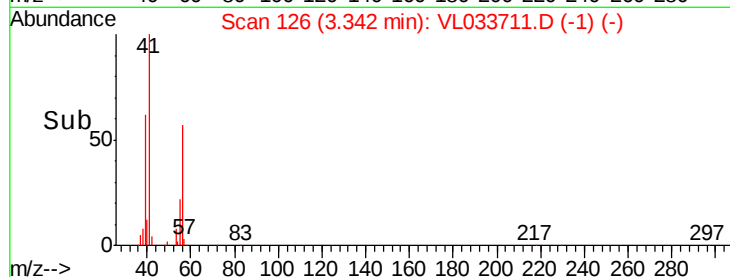
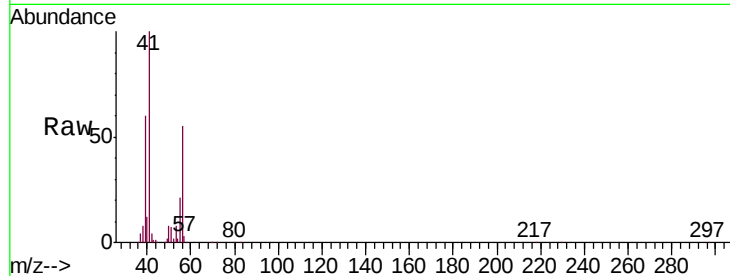




#16
 1,3-Butadiene
 Concen: 3.345 ppbv
 RT: 3.34 min Scan# 126
 Delta R.T. -0.02 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

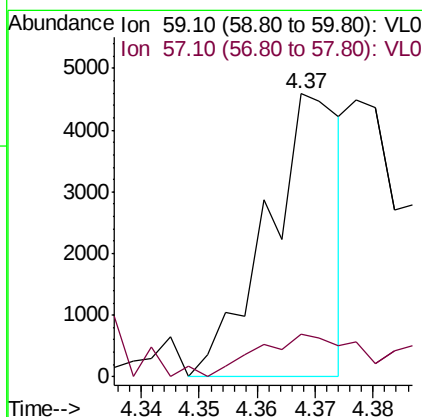
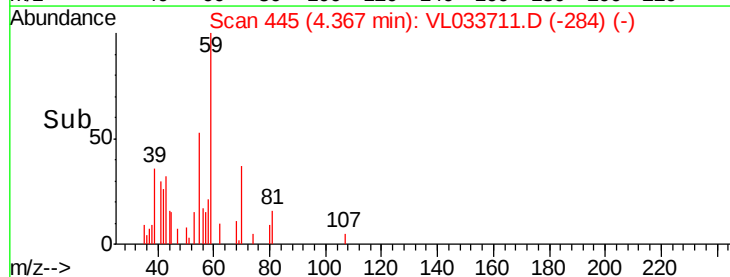
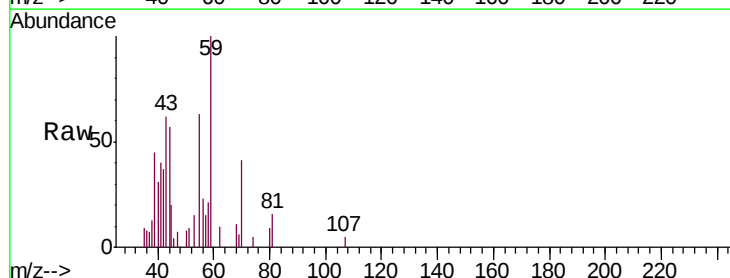
Instrument :
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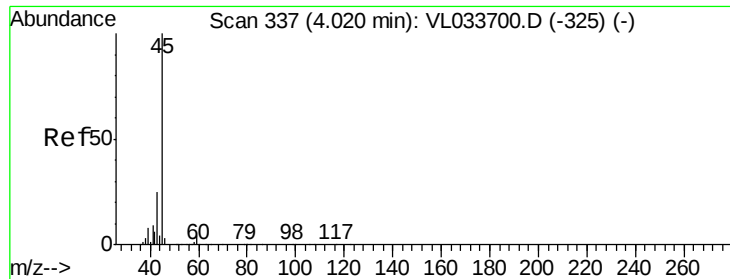
Tgt Ion: 39 Resp: 212869
 Ion Ratio Lower Upper
 39 100
 54 5.5 69.0 103.6#



#17
 tert-Butyl alcohol
 Concen: 0.031 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. 0.02 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

Tgt Ion: 59 Resp: 4007
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 4.863 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.04 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

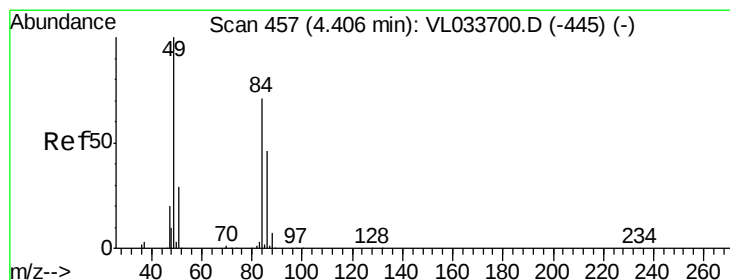
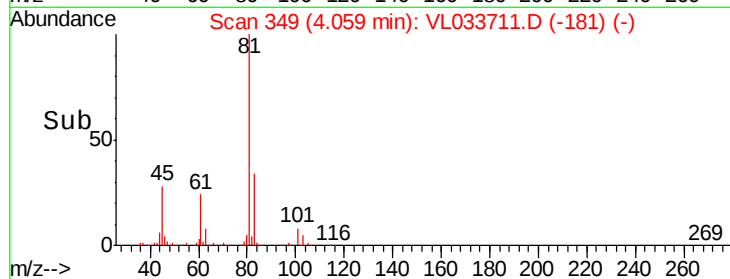
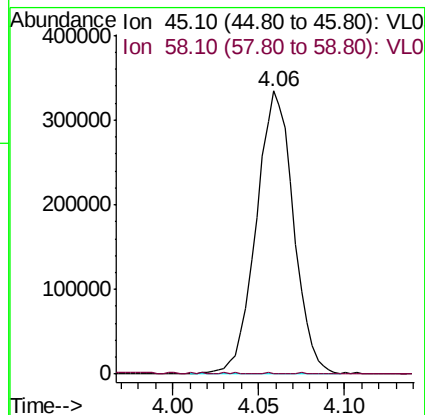
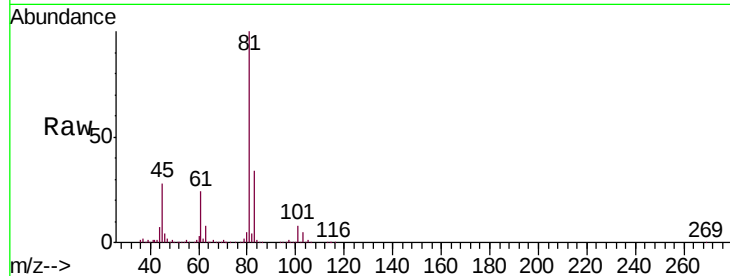
SV-01DL

Tgt Ion: 45 Resp: 501131

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#



#20

Methylene Chloride

Concen: 0.085 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Tgt Ion: 84 Resp: 5204

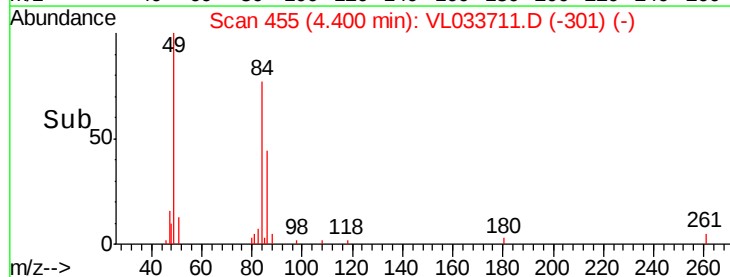
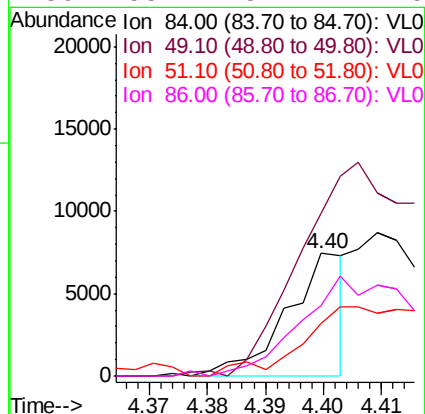
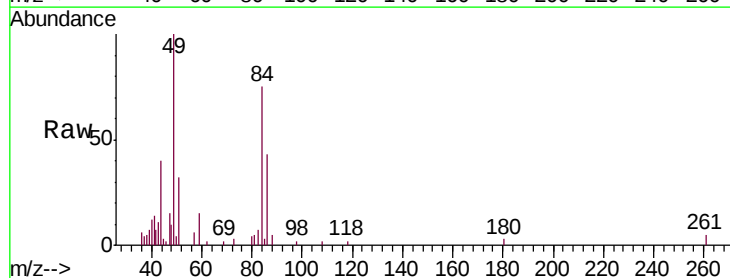
Ion Ratio Lower Upper

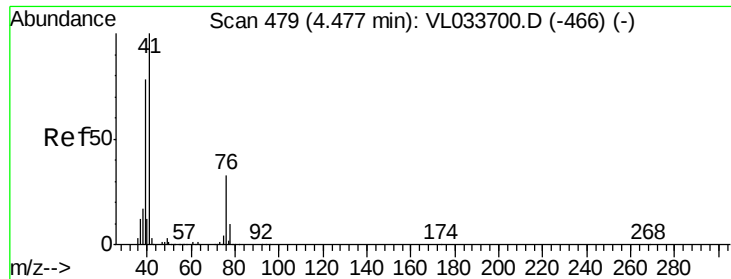
84 100

49 129.8 112.8 169.2

51 42.4 33.4 50.0

86 53.2 51.7 77.5

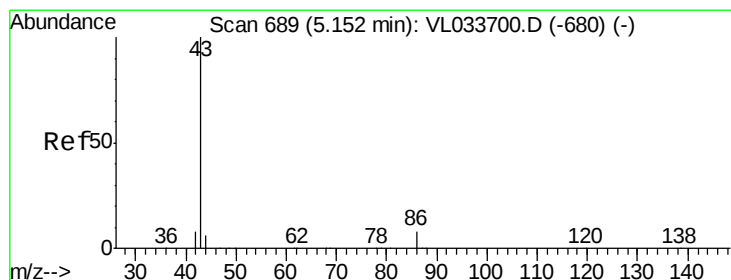
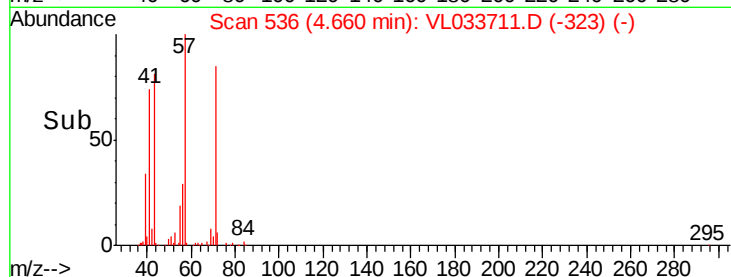
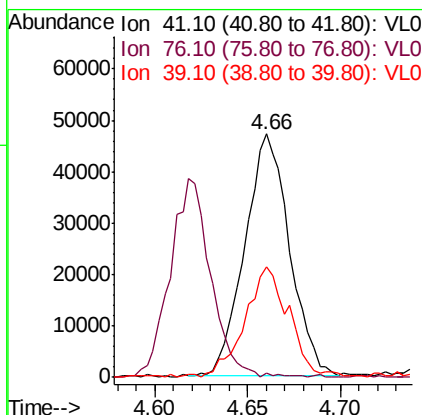
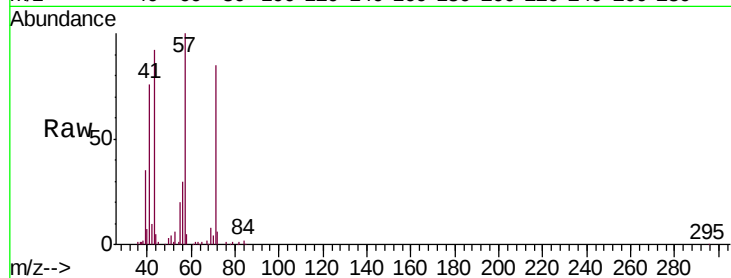




#21
 Allyl Chloride
 Concen: 0.797 ppbv
 RT: 4.66 min Scan# 536
 Delta R.T. 0.18 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

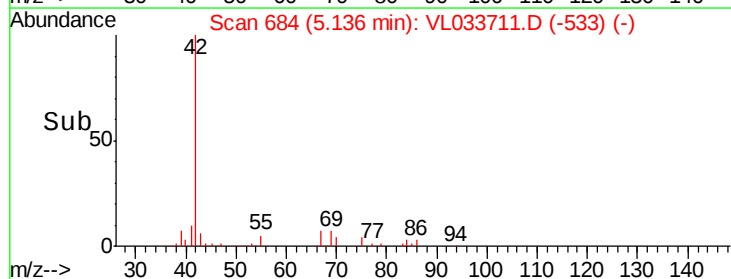
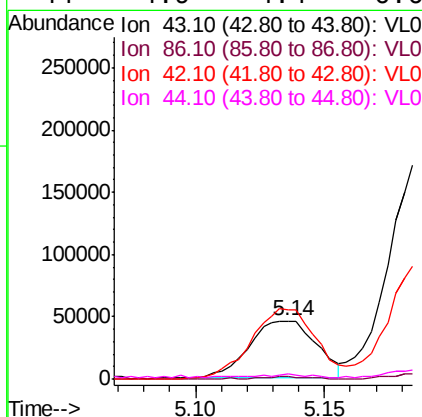
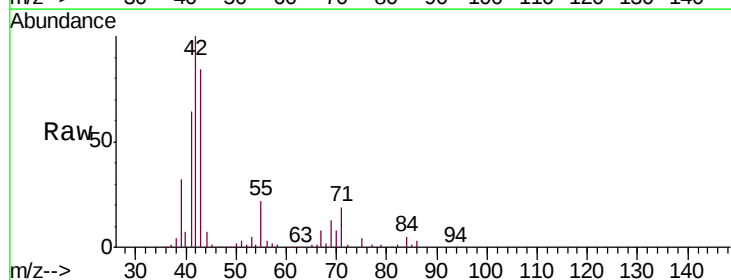
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01DL

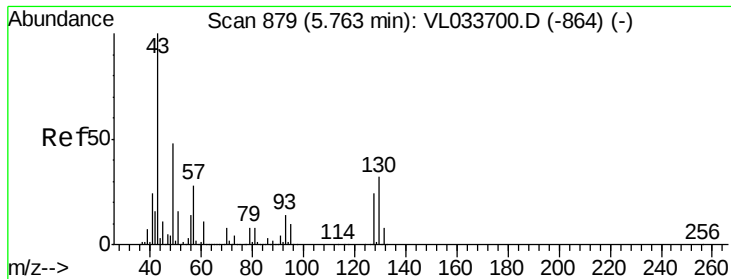
Tgt Ion: 41 Resp: 79451
 Ion Ratio Lower Upper
 41 100
 76 74.3 25.9 38.9#
 39 46.2 64.6 97.0#



#23
 Vinyl Acetate
 Concen: 0.394 ppbv
 RT: 5.14 min Scan# 684
 Delta R.T. -0.02 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

Tgt Ion: 43 Resp: 82966
 Ion Ratio Lower Upper
 43 100
 86 4.0 6.0 9.0#
 42 120.3 7.5 11.3#
 44 4.9 4.4 6.6





#25

Ethyl Acetate

Concen: 0.611 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

Tgt Ion: 43 Resp: 171439

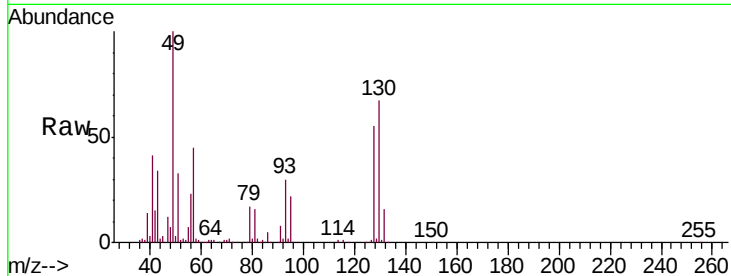
Ion Ratio Lower Upper

43 100

45 15.6 7.9 11.9#

61 1.4 7.7 11.5#

70 1.9 5.8 8.6#

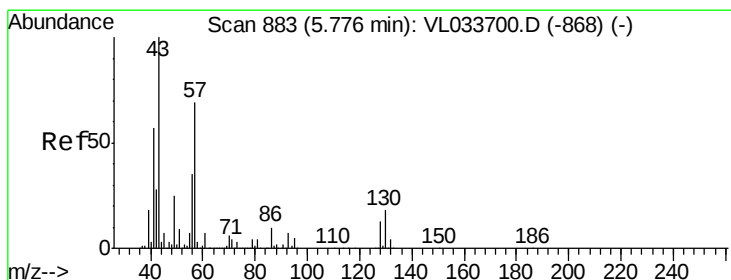
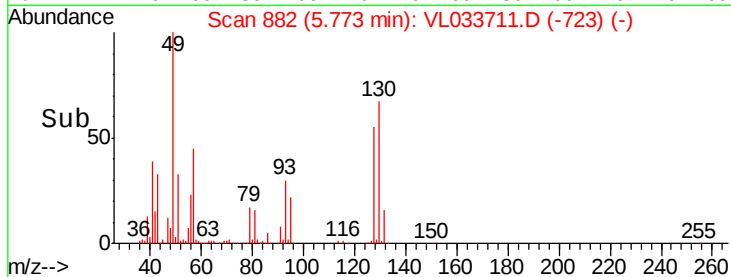
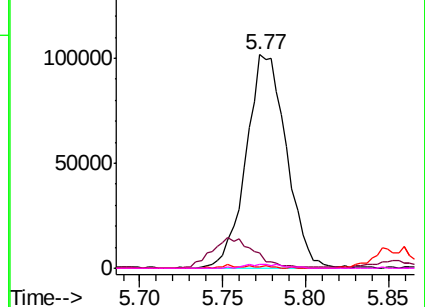


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.021 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Tgt Ion: 57 Resp: 243917

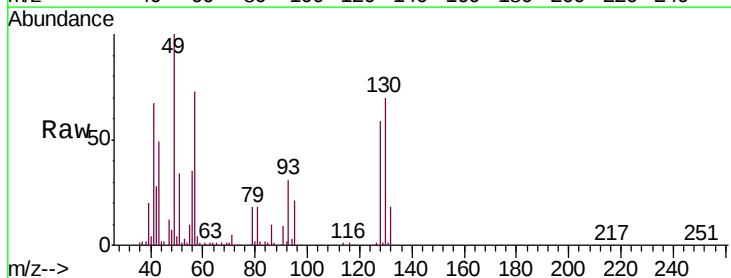
Ion Ratio Lower Upper

57 100

41 89.5 69.8 104.6

43 70.0 181.8 272.6#

56 54.5 42.1 63.1

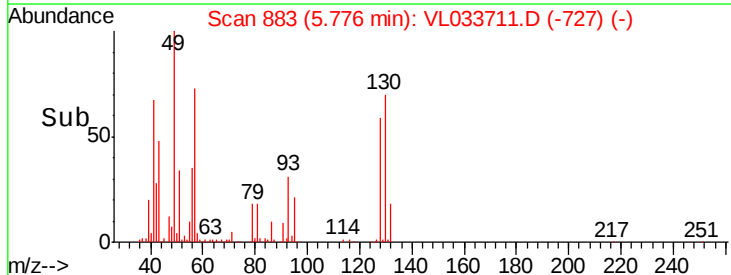
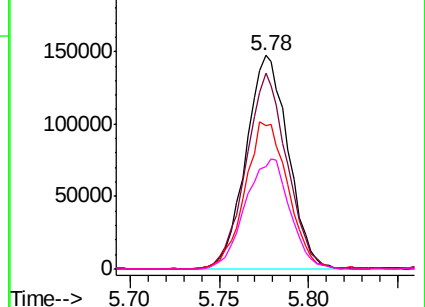


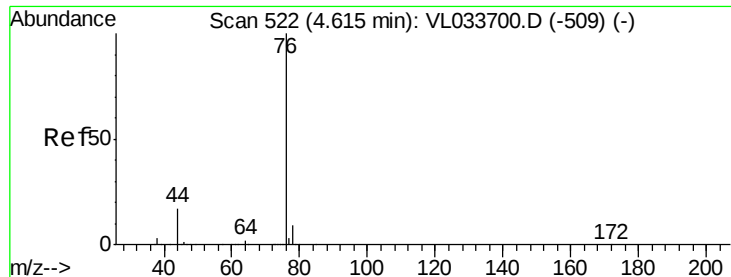
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.352 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

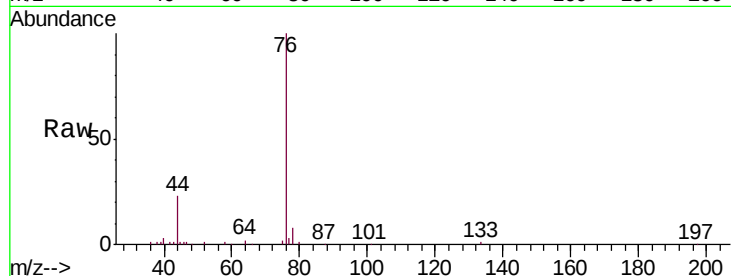
Tgt Ion: 76 Resp: 58362

Ion Ratio Lower Upper

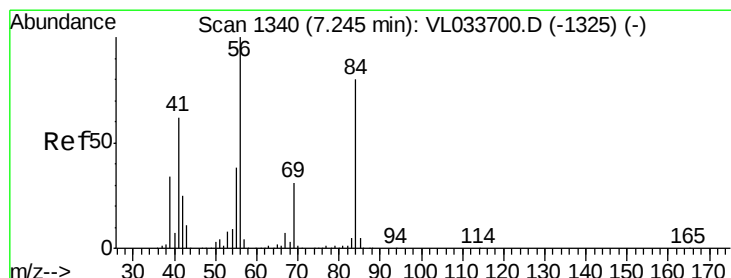
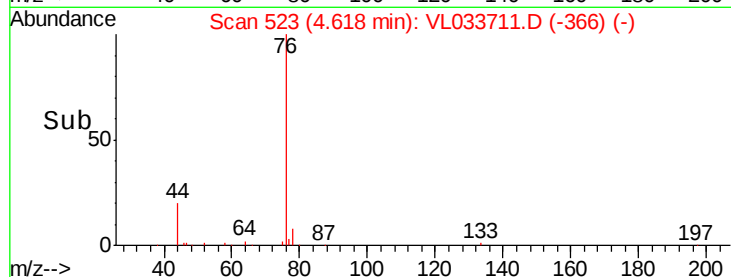
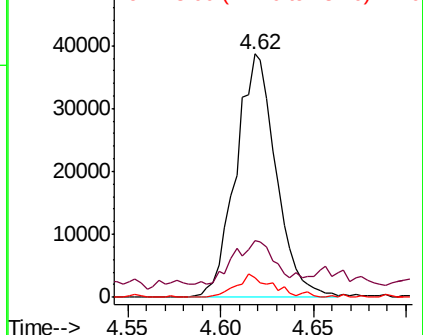
76 100

44 18.8 13.8 20.8

78 8.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 0.691 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

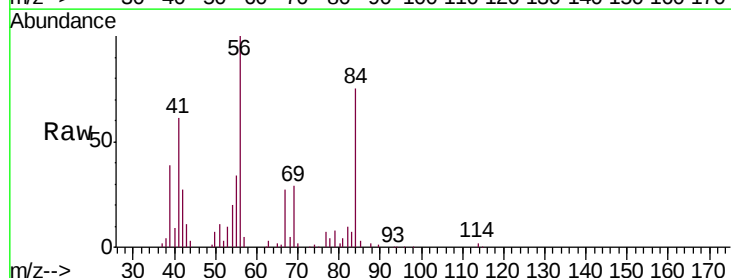
Tgt Ion: 84 Resp: 70085

Ion Ratio Lower Upper

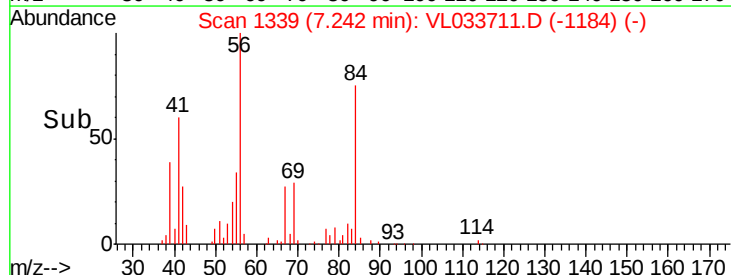
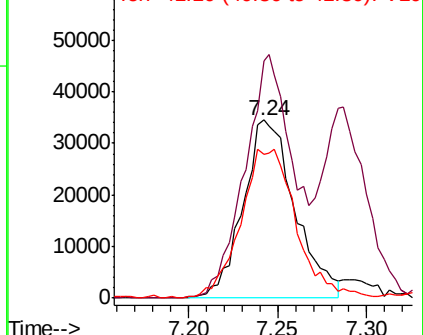
84 100

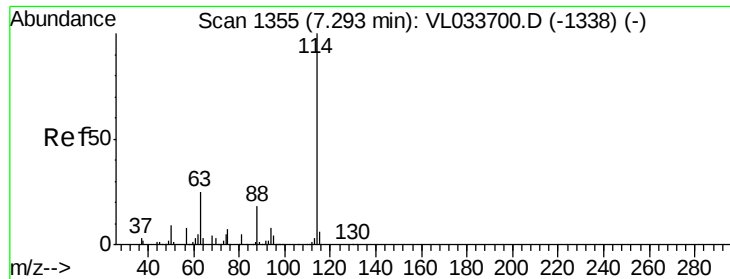
56 131.2 107.7 161.5

41 89.1 66.0 99.0



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

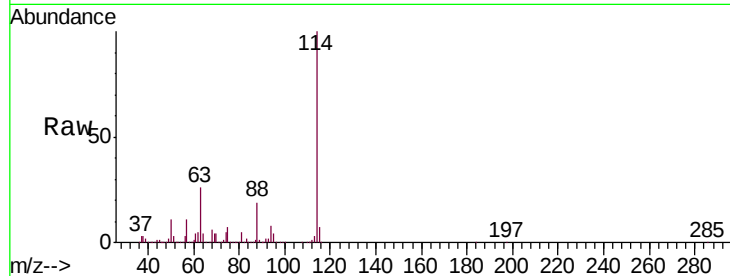




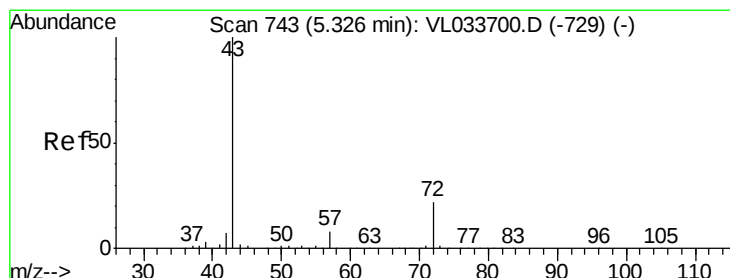
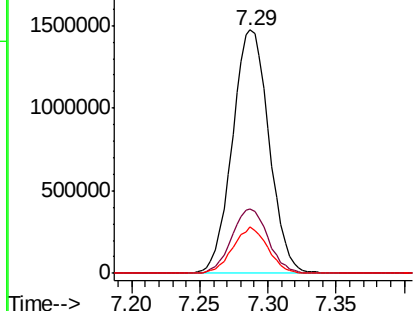
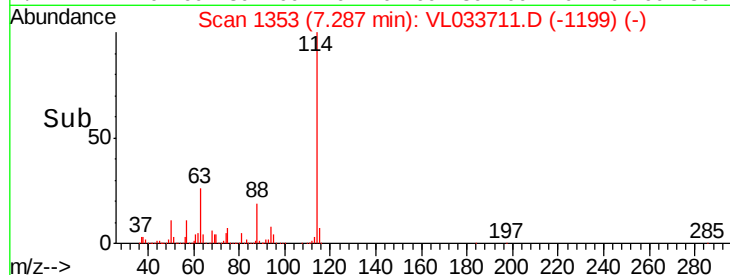
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01DL

Tgt Ion:114 Resp: 2748714
 Ion Ratio Lower Upper
 114 100
 63 26.4 20.9 31.3
 88 18.1 14.3 21.5

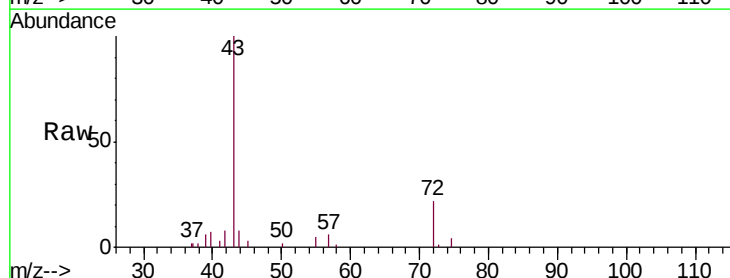


Abundance Ion 114.10 (113.80 to 114.80): VL0
 2000000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

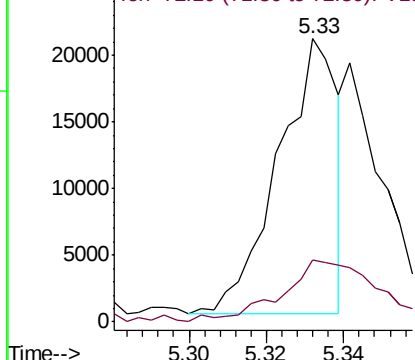
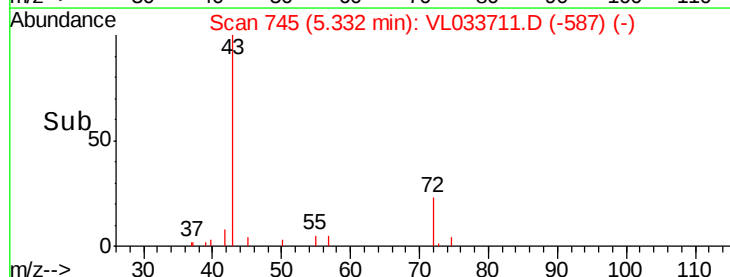


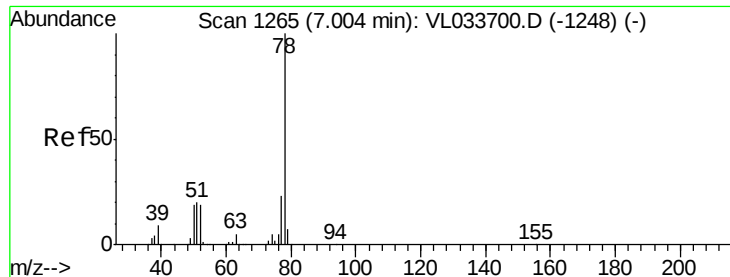
#34
 2-Butanone
 Concen: 0.127 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

Tgt Ion: 43 Resp: 21654
 Ion Ratio Lower Upper
 43 100
 72 39.4 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 25000 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.503 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

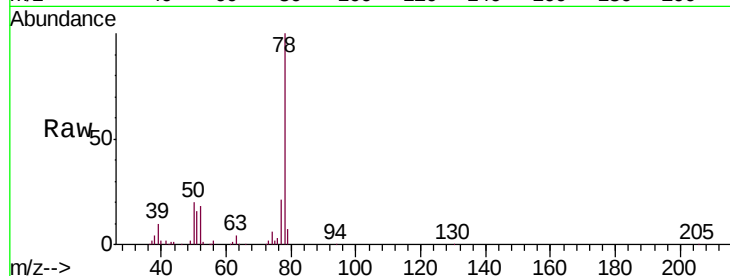
Tgt Ion: 78 Resp: 125892

Ion Ratio Lower Upper

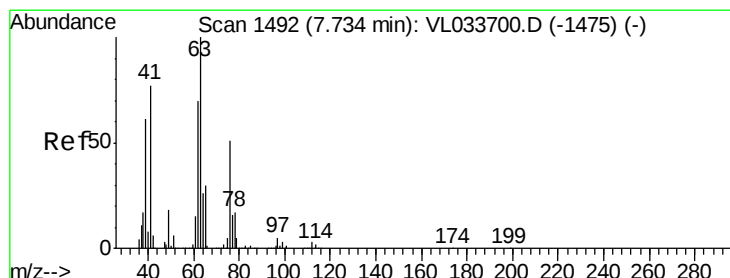
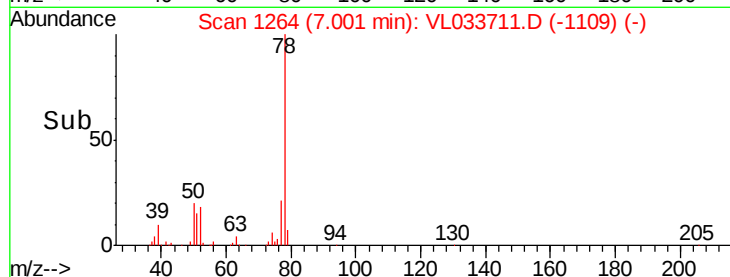
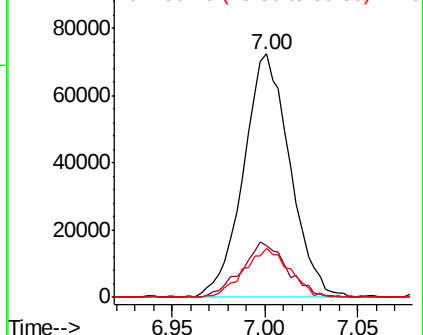
78 100

77 20.7 18.4 27.6

50 20.1 15.5 23.3



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.712 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

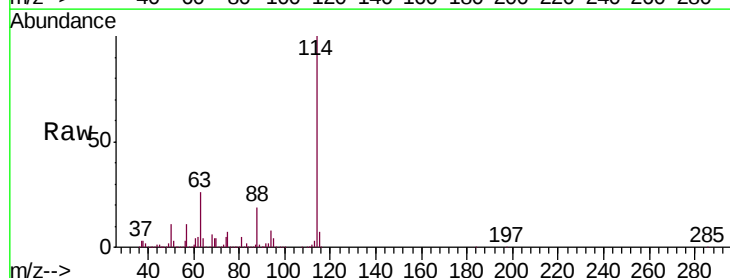
Tgt Ion: 63 Resp: 718890

Ion Ratio Lower Upper

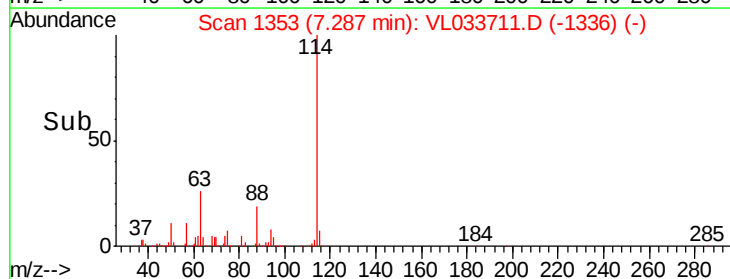
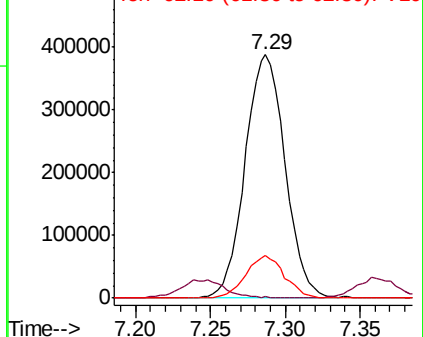
63 100

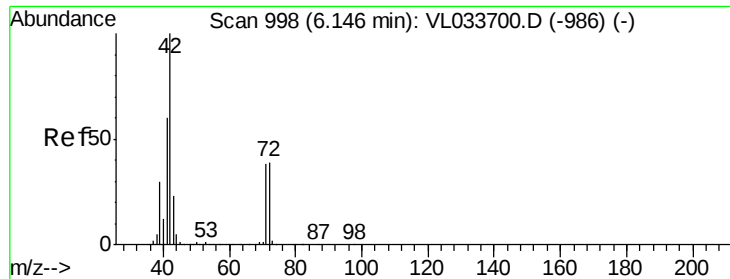
41 0.0 61.5 92.3#

62 17.6 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





#41

Tetrahydrofuran

Concen: 0.075 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. 0.27 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

Instrument :

MSVOA_L

ClientSampleId :

SV-01DL

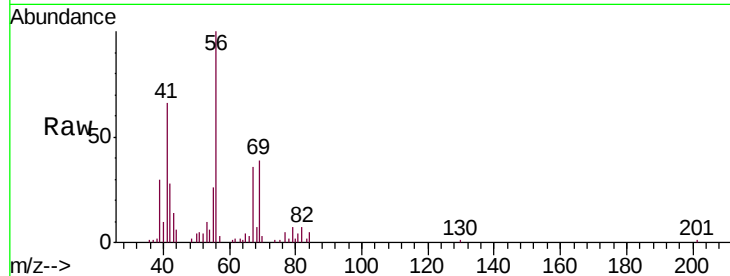
Tgt Ion: 42 Resp: 7131

Ion Ratio Lower Upper

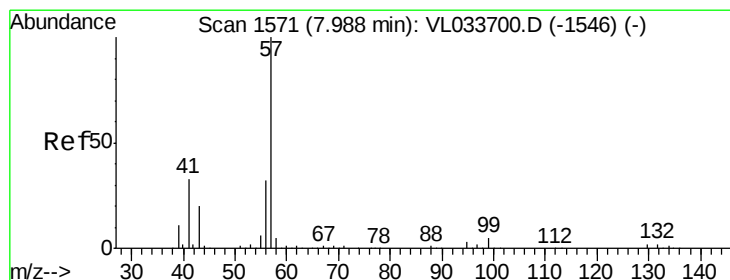
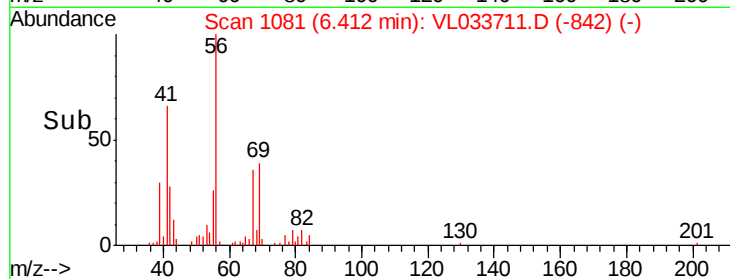
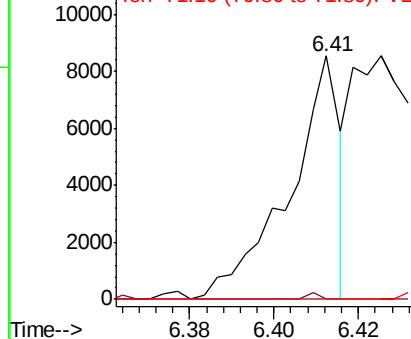
42 100

72 0.0 32.0 48.0#

71 0.0 30.4 45.6#



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



#44

2,2,4-Trimethylpentane

Concen: 0.087 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VL033711.D

Acq: 17 May 2019 11:21

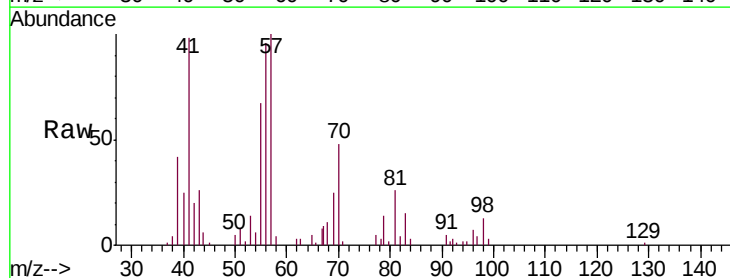
Tgt Ion: 57 Resp: 36859

Ion Ratio Lower Upper

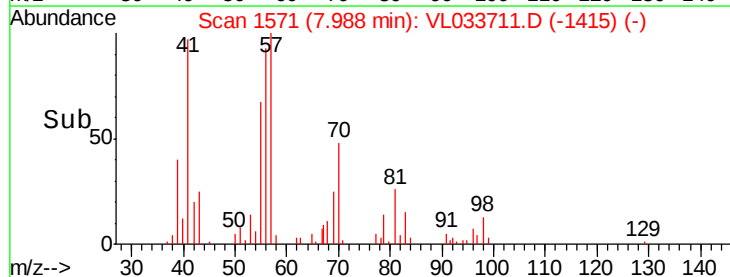
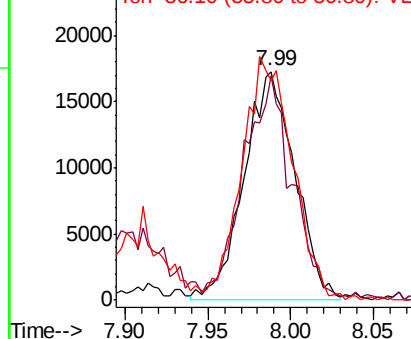
57 100

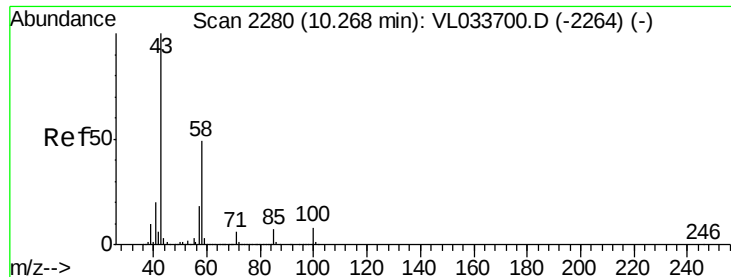
41 94.2 25.4 38.0#

56 107.2 24.7 37.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

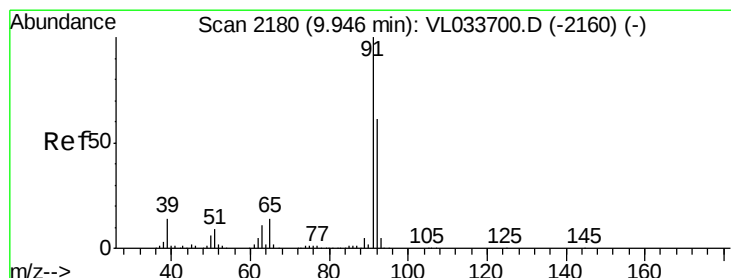
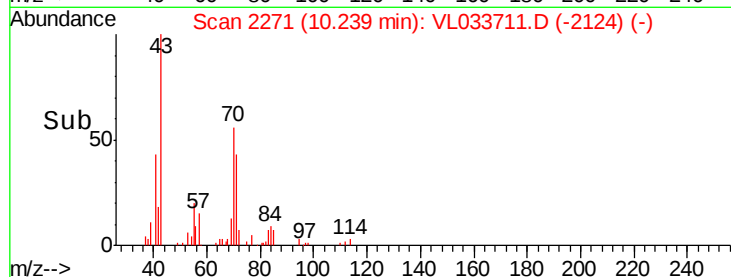
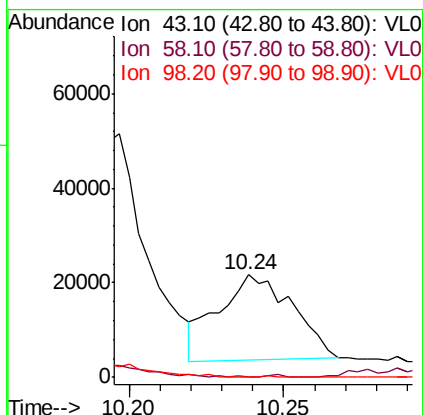
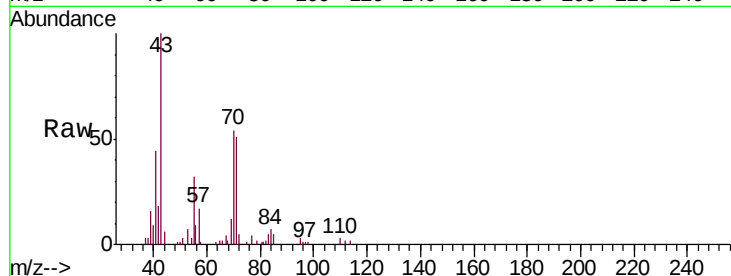




#51
2-Hexanone
Concen: 0.148 ppbv
RT: 10.24 min Scan# 2271
Delta R.T. -0.03 min
Lab File: VL033711.D
Acq: 17 May 2019 11:21

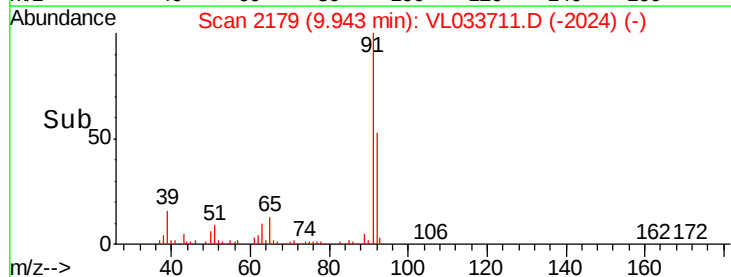
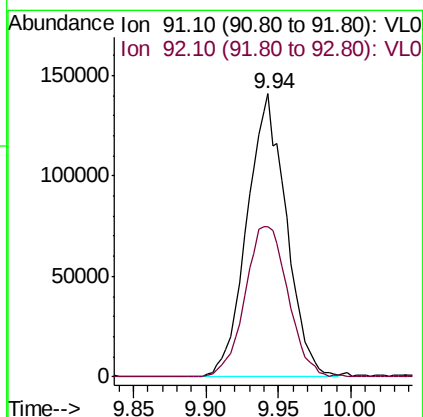
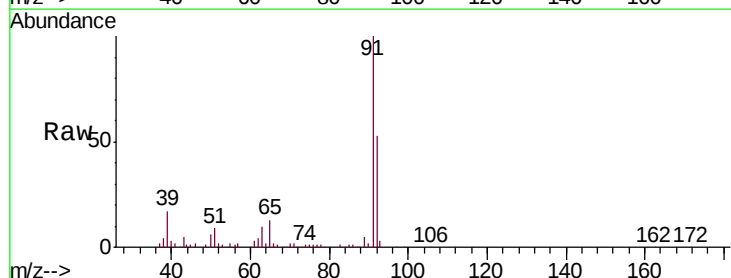
Instrument :
MSVOA_L
ClientSampleId :
SV-01DL

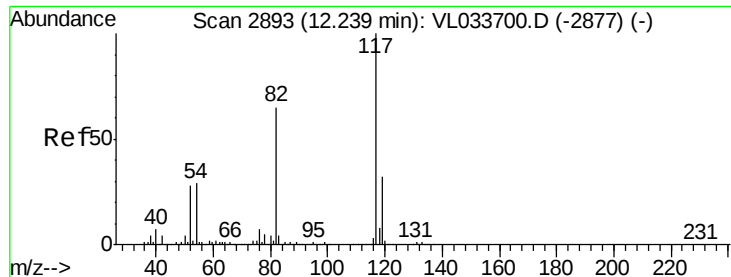
Tgt Ion: 43 Resp: 30230
Ion Ratio Lower Upper
43 100
58 0.0 38.7 58.1#
98 0.0 0.2 0.4#



#53
Toluene
Concen: 0.985 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033711.D
Acq: 17 May 2019 11:21

Tgt Ion: 91 Resp: 265525
Ion Ratio Lower Upper
91 100
92 58.2 47.6 71.4

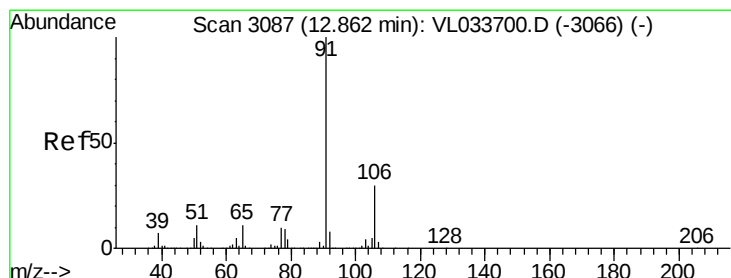
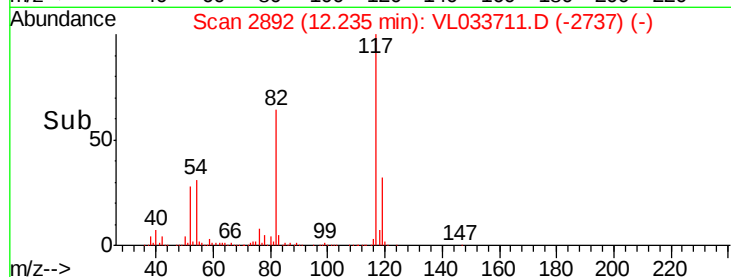
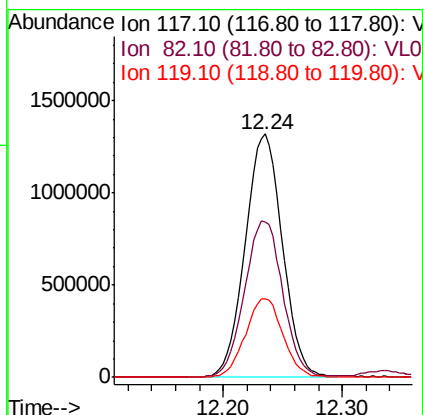
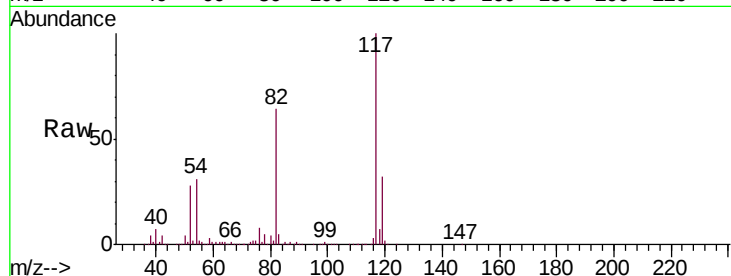




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033711.D
Acq: 17 May 2019 11:21

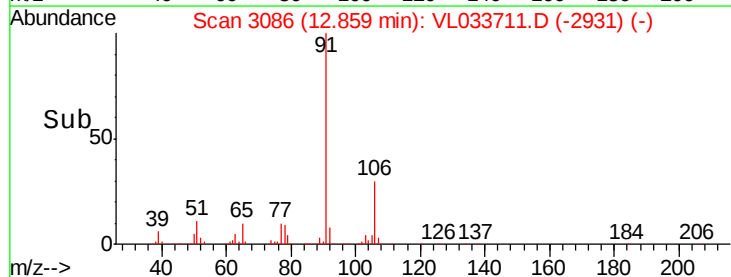
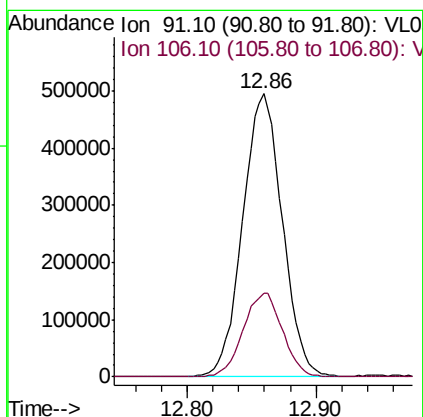
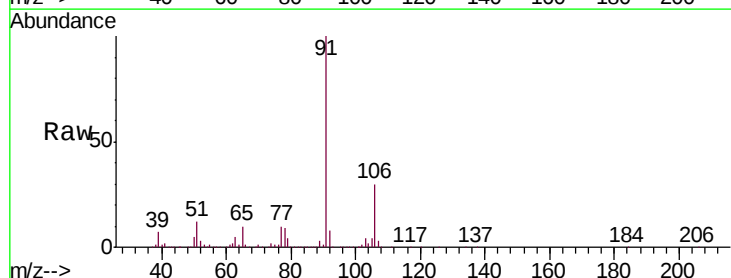
Instrument :
MSVOA_L
ClientSampleId :
SV-01DL

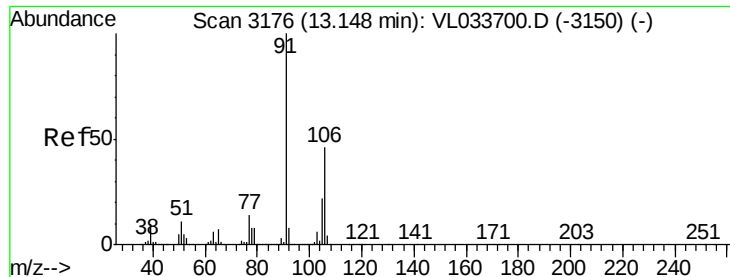
Tgt Ion:117 Resp: 2858578
Ion Ratio Lower Upper
117 100
82 66.2 49.4 74.0
119 32.6 24.9 37.3



#58
Ethyl Benzene
Concen: 2.784 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VL033711.D
Acq: 17 May 2019 11:21

Tgt Ion: 91 Resp: 1053857
Ion Ratio Lower Upper
91 100
106 29.7 23.9 35.9

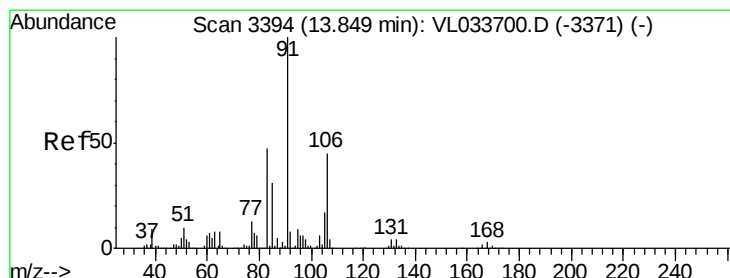
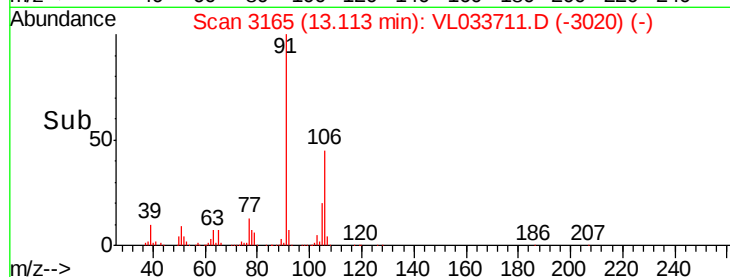
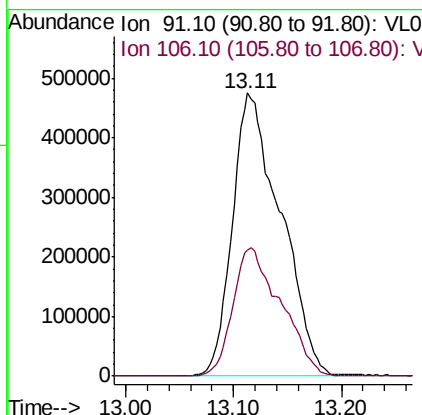
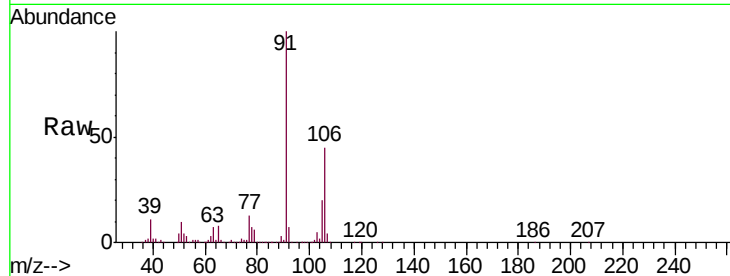




#59
m/p-Xylene
Concen: 4.441 ppbv
RT: 13.11 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL033711.D
Acq: 17 May 2019 11:21

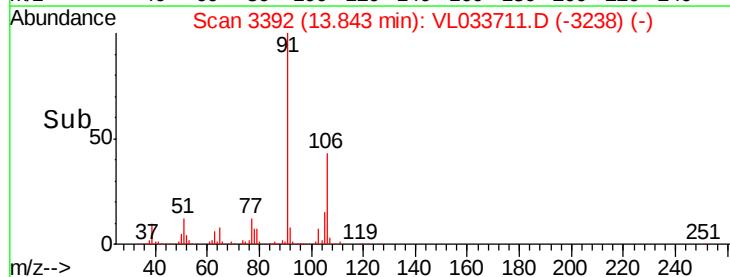
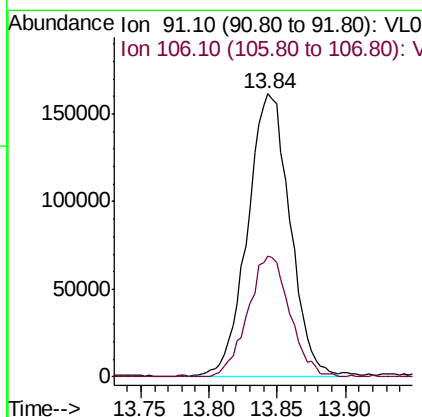
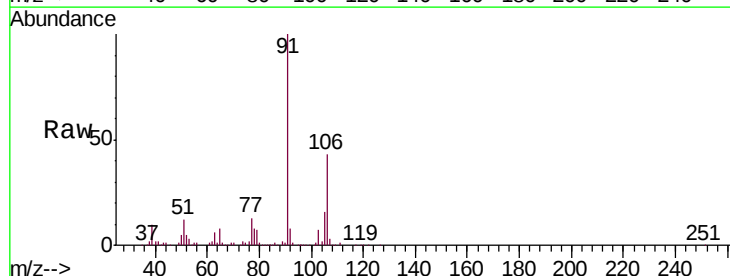
Instrument :
MSVOA_L
ClientSampleId :
SV-01DL

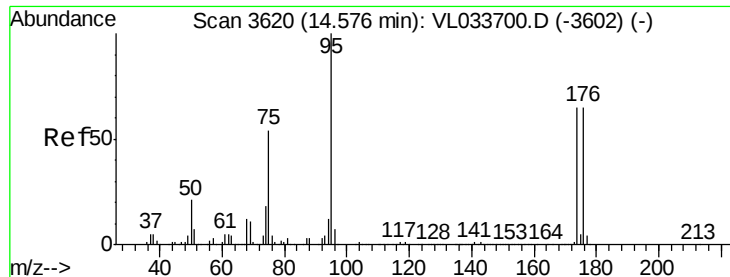
Tgt Ion: 91 Resp: 1469541
Ion Ratio Lower Upper
91 100
106 45.3 35.8 53.6



#60
o-Xylene
Concen: 1.049 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033711.D
Acq: 17 May 2019 11:21

Tgt Ion: 91 Resp: 349932
Ion Ratio Lower Upper
91 100
106 42.3 21.6 64.8

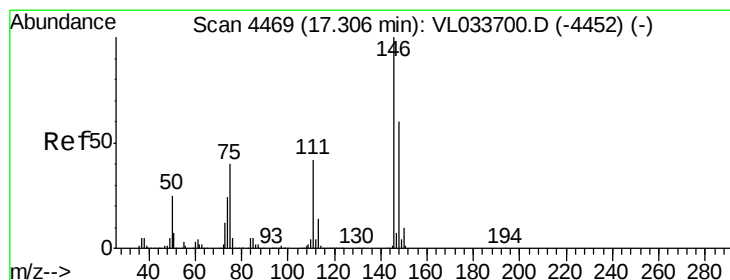
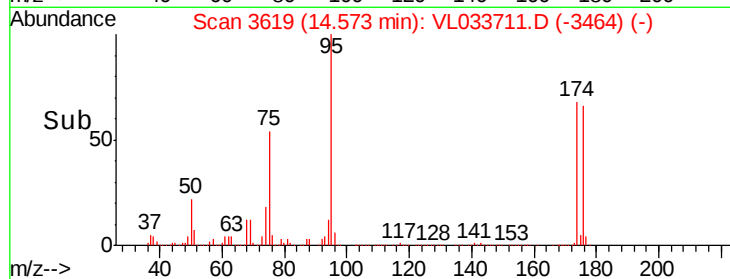
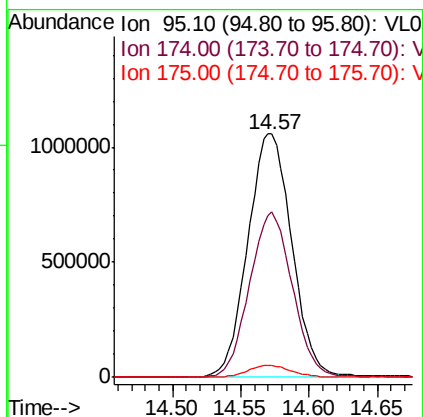
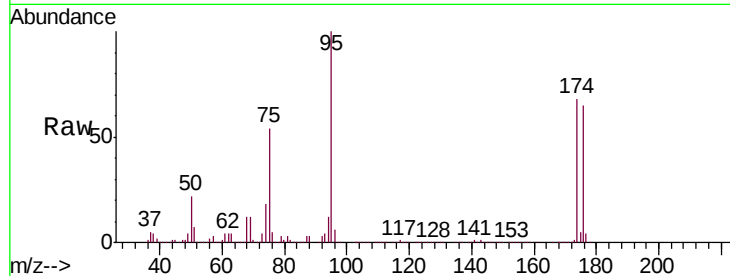




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.202 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01DL

Tgt Ion: 95 Resp: 2364208
 Ion Ratio Lower Upper
 95 100
 174 66.8 53.9 80.9
 175 4.9 3.8 5.8



#76
 1,4-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.30 min Scan# 4467
 Delta R.T. -0.01 min
 Lab File: VL033711.D
 Acq: 17 May 2019 11:21

Tgt Ion: 146 Resp: 8529
 Ion Ratio Lower Upper
 146 100
 111 323.4 21.9 65.8#
 148 105.1 32.1 96.3#

