

Data File : VL033288.D
Acq On : 12 Mar 2019 18:22
Operator : SY/AP
Sample : K1805-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-DUP-1

Quant Time: Mar 13 07:54:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019
QLast Update : Wed Mar 13 07:17:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	779593	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1779157	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1735672	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1385949 10.34 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.40%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.07	85	36538	0.232 ppbv	97
3) Chlorodifluoromethane	3.01	51	40984	0.396 ppbv #	88
4) Chloromethane	3.17	50	39042	0.706 ppbv	91
9) Propene	3.24	41	36097	0.766 ppbv	93
10) Heptane	8.24	43	5032	0.047 ppbv #	38
11) Trichlorofluoromethane	4.00	101	31390	0.201 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3522	0.039 ppbv #	14
13) Ethanol	3.65	45	106439	7.401 ppbv	97
15) Acetone	3.90	43	476791	3.987 ppbv	90
16) 1,3-Butadiene	3.35	39	1907	0.044 ppbv #	46
19) Isopropyl Alcohol	4.04	45	36373	0.503 ppbv #	1
20) Methylene Chloride	4.41	84	52528	1.321 ppbv	97
21) Allyl Chloride	4.44	41	1997	0.034 ppbv #	1
23) Vinyl Acetate	5.14	43	9970	0.067 ppbv #	1
25) Ethyl Acetate	5.78	43	58332	0.317 ppbv #	81
26) Hexane	5.78	57	75720	0.875 ppbv #	41
30) Cyclohexane	7.24	84	1632	0.024 ppbv #	1
34) 2-Butanone	5.33	43	18134	0.154 ppbv #	47
36) Benzene	7.00	78	46086	0.281 ppbv	96
39) 1,2-Dichloropropane	7.29	63	484519	7.847 ppbv #	24
44) 2,2,4-Trimethylpentane	7.98	57	15875	0.057 ppbv #	13
52) Tetrachloroethene	11.37	164	23445	0.390 ppbv	91
53) Toluene	9.94	91	237279	1.255 ppbv	100
59) m/p-Xylene	13.12	91	8531	0.043 ppbv #	1

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

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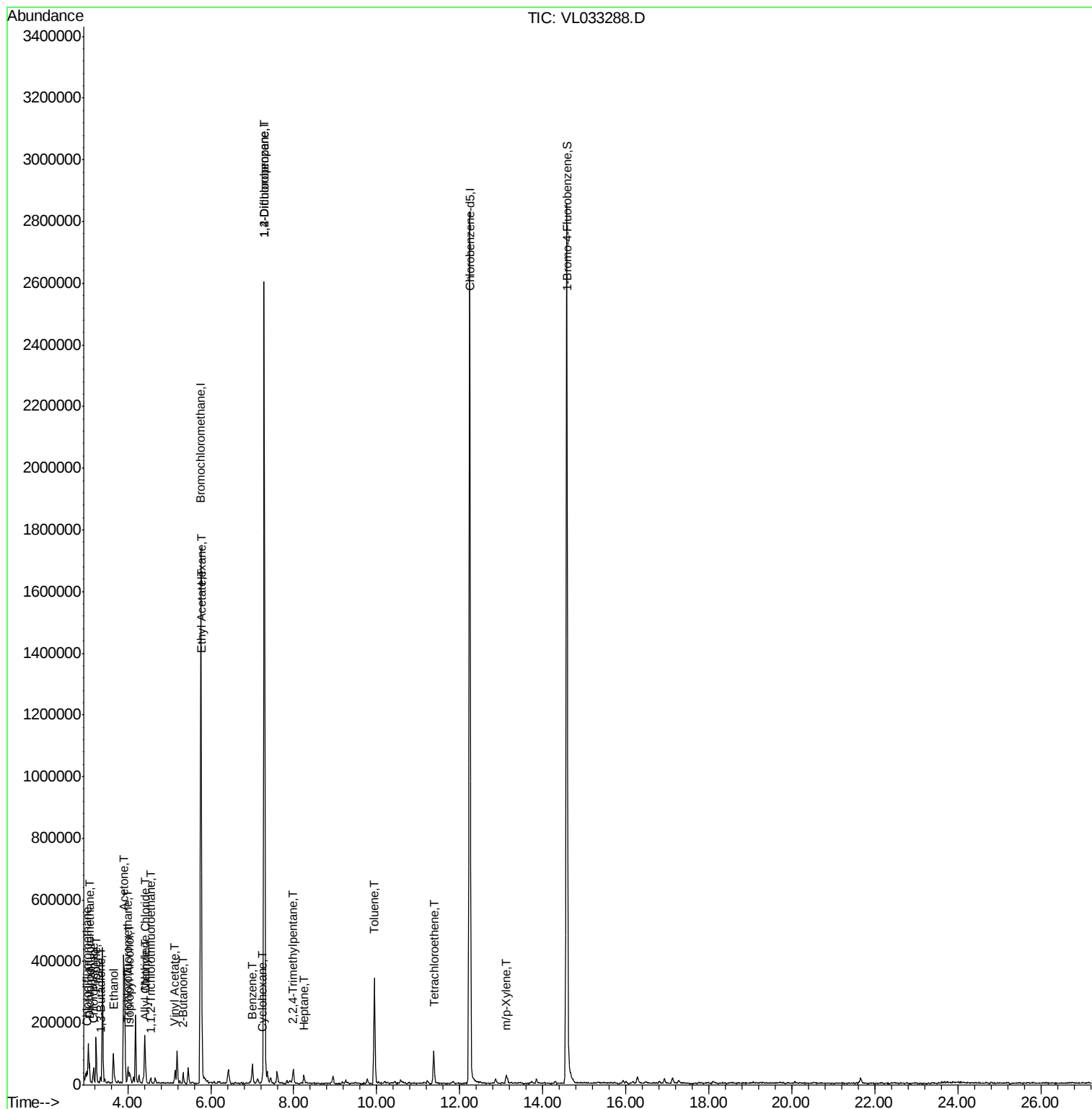
Quant Time: Mar 13 07:54:50 2019

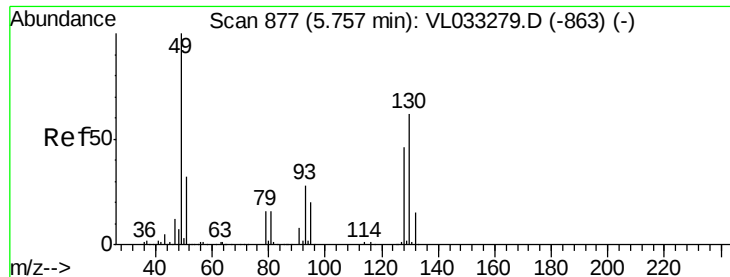
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL031219AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Mar 13 07:17:55 2019

QLast Update : Wed Mar 13 07:17:55 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033288.D

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ClientSampleId :

ST-DUP-1

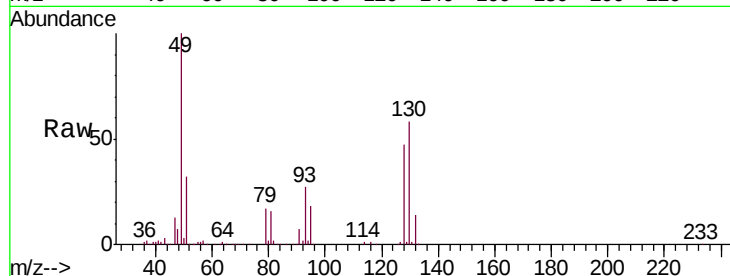
Tgt Ion: 49 Resp: 779593

Ion Ratio Lower Upper

49 100

128 46.5 23.3 69.9

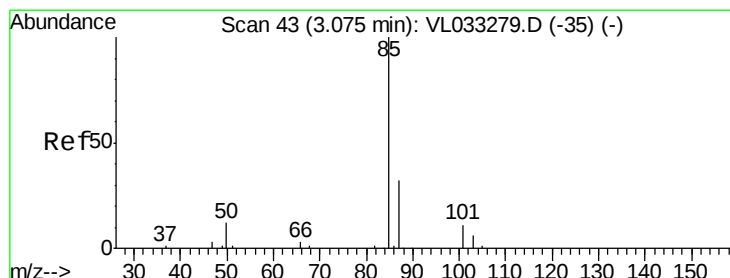
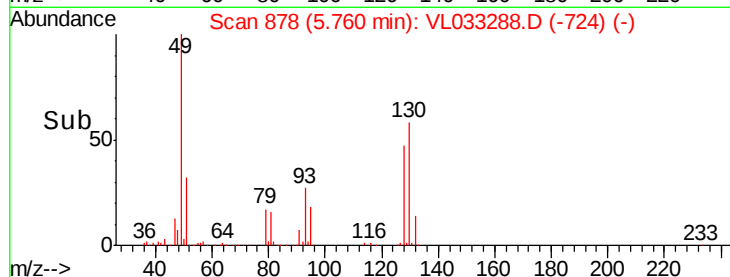
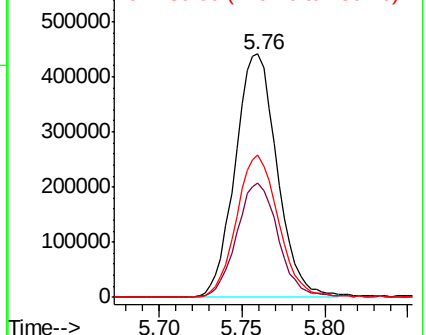
130 59.2 30.0 90.1



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: 0.232 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033288.D

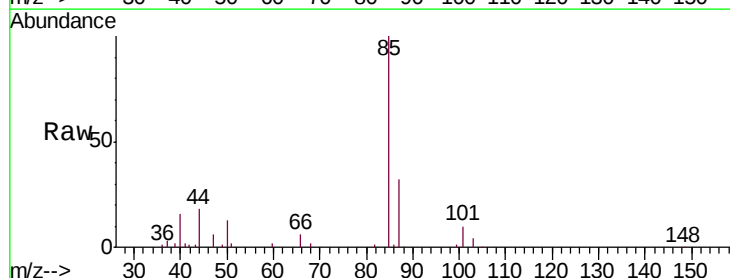
Acq: 12 Mar 2019 18:22

Tgt Ion: 85 Resp: 36538

Ion Ratio Lower Upper

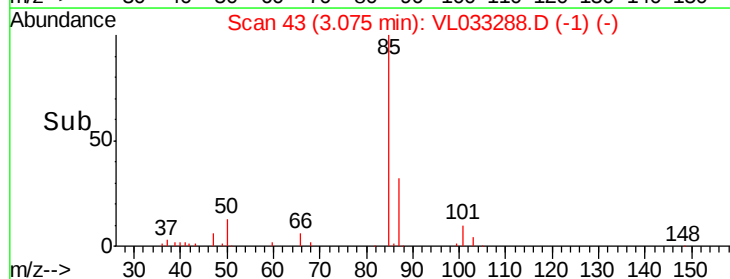
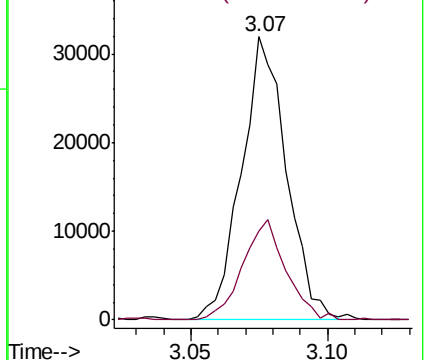
85 100

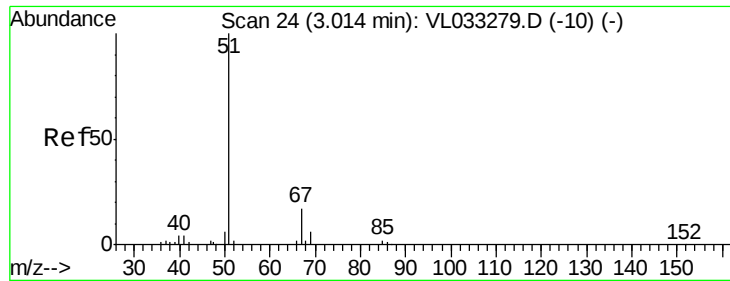
87 31.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

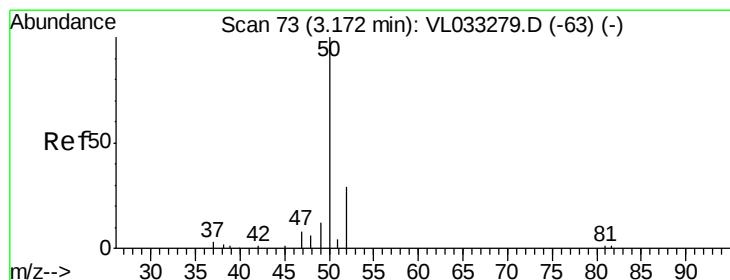
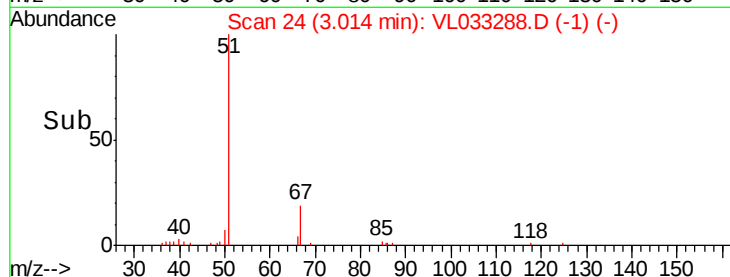
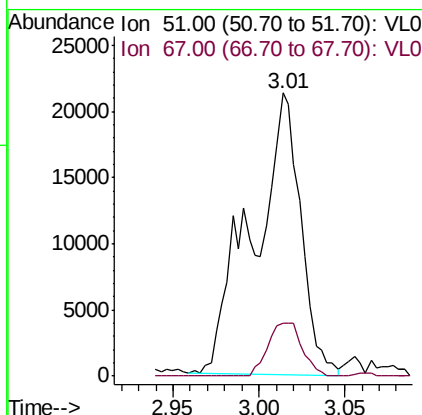
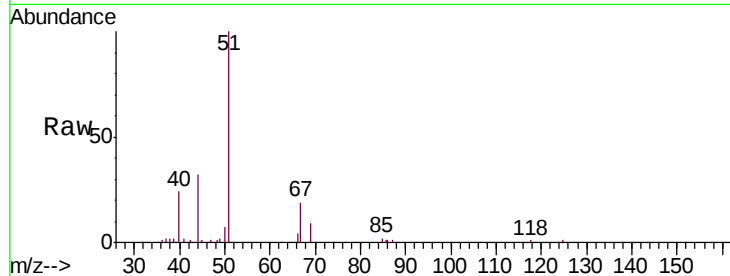




#3
Chlorodifluoromethane
Concen: 0.396 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

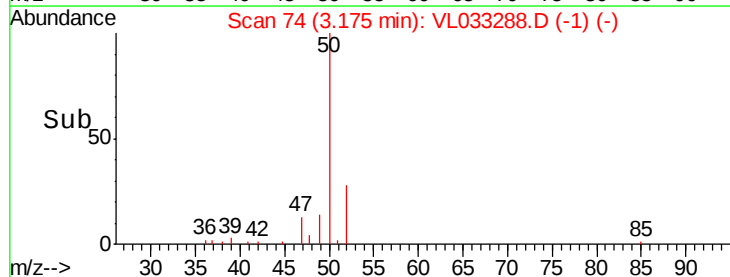
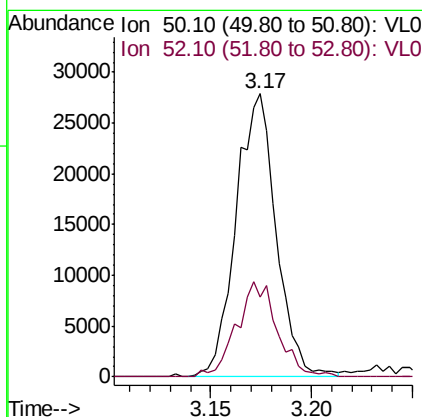
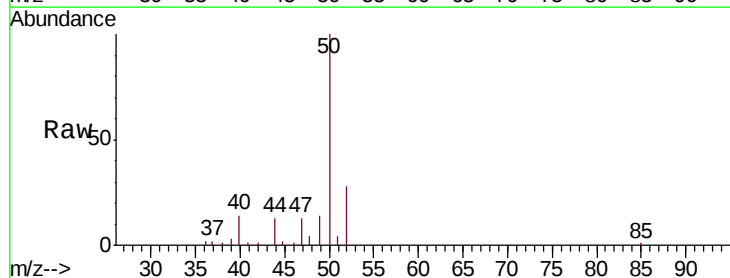
Instrument :
MSVOA_L
ClientSampleId :
ST-DUP-1

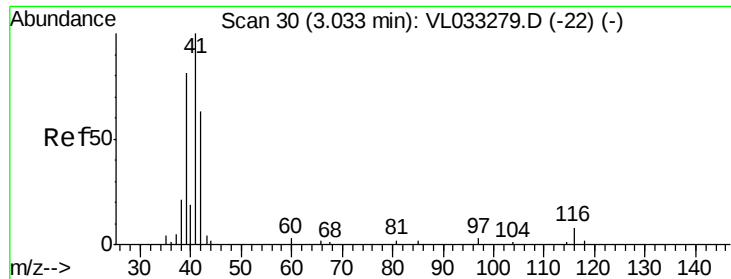
Tgt Ion: 51 Resp: 40984
Ion Ratio Lower Upper
51 100
67 13.4 15.0 22.4#



#4
Chloromethane
Concen: 0.706 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

Tgt Ion: 50 Resp: 39042
Ion Ratio Lower Upper
50 100
52 28.3 26.6 39.8





#9

Propene

Concen: 0.766 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

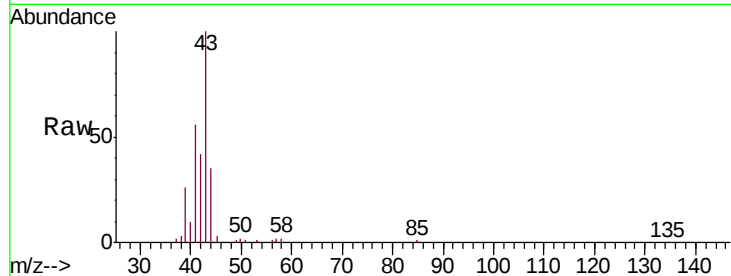
ST-DUP-1

Tgt Ion: 41 Resp: 36097

Ion Ratio Lower Upper

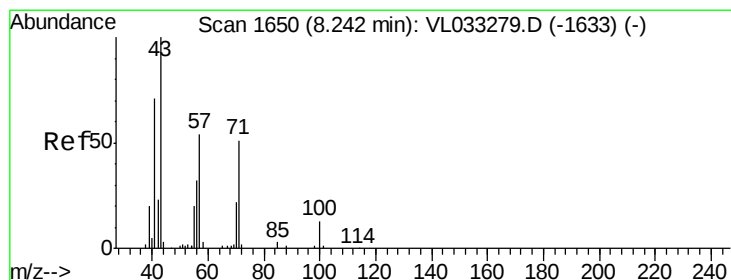
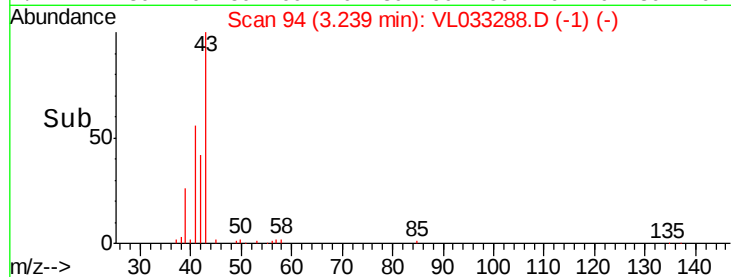
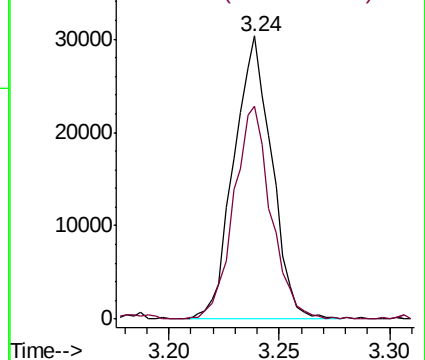
41 100

42 74.3 54.6 82.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.047 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL033288.D

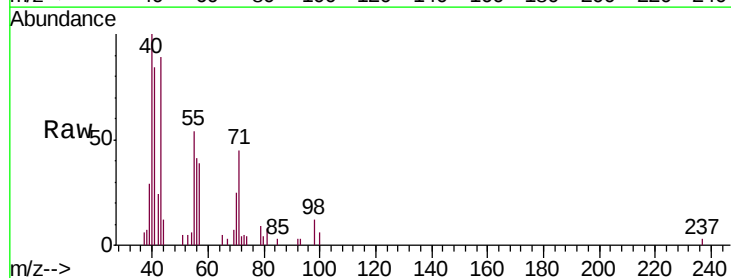
Acq: 12 Mar 2019 18:22

Tgt Ion: 43 Resp: 5032

Ion Ratio Lower Upper

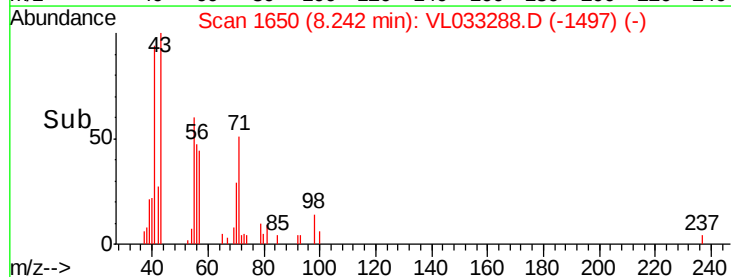
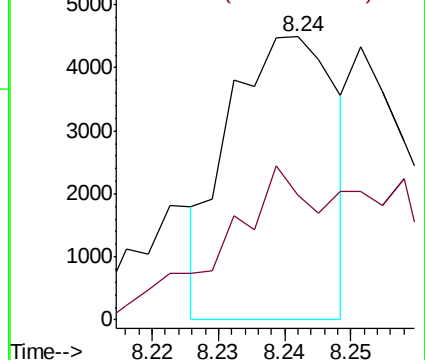
43 100

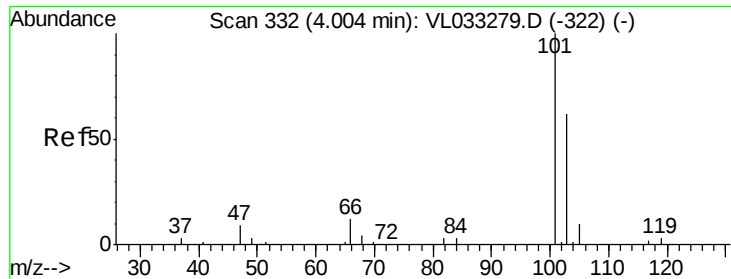
57 92.5 39.8 59.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

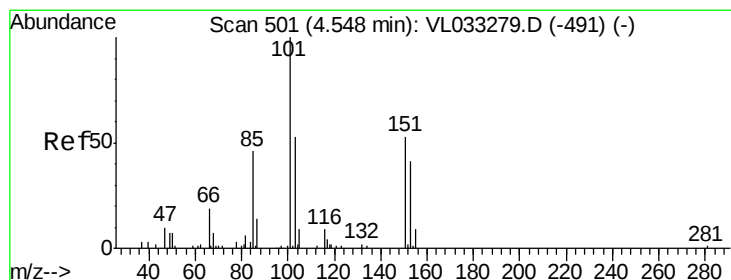
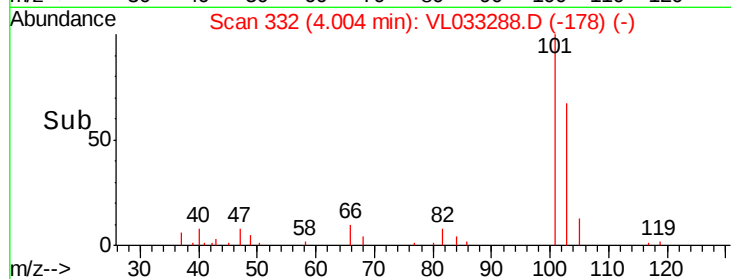
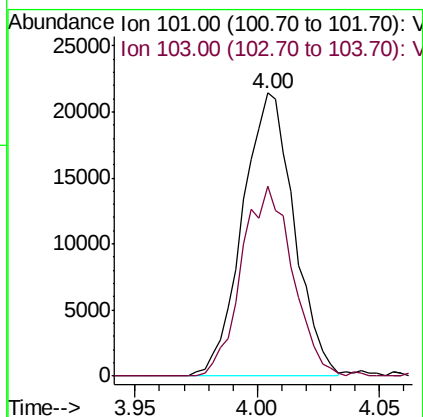
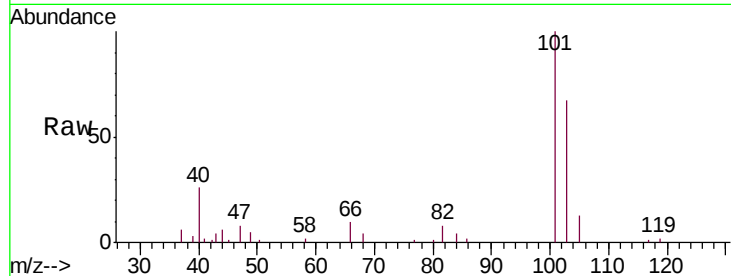




#11
 Trichlorofluoromethane
 Concen: 0.201 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033288.D
 Acq: 12 Mar 2019 18:22

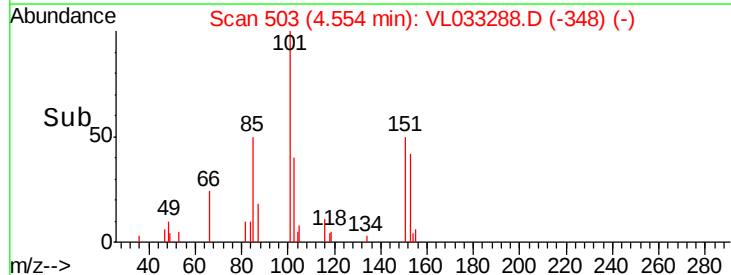
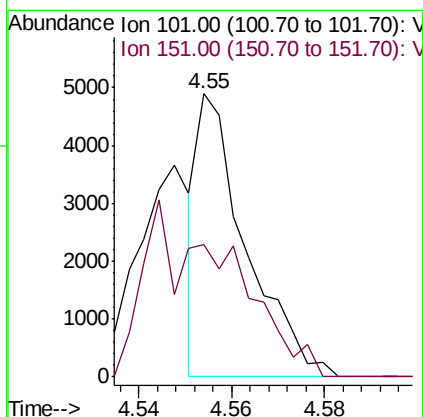
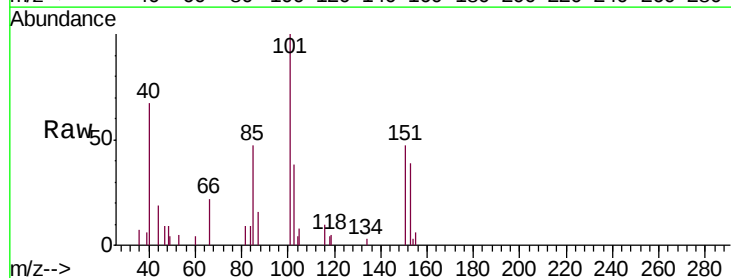
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-DUP-1

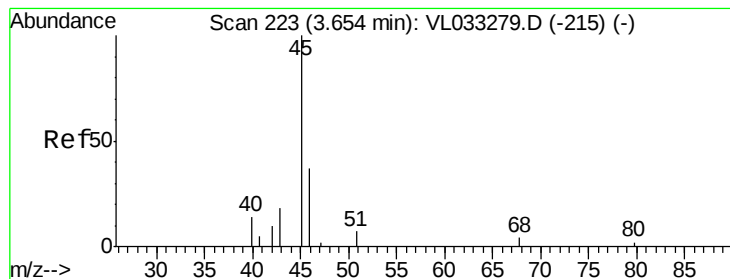
Tgt Ion:101 Resp: 31390
 Ion Ratio Lower Upper
 101 100
 103 67.1 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL033288.D
 Acq: 12 Mar 2019 18:22

Tgt Ion:101 Resp: 3522
 Ion Ratio Lower Upper
 101 100
 151 0.0 56.9 85.3#





#13

Ethanol

Concen: 7.401 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

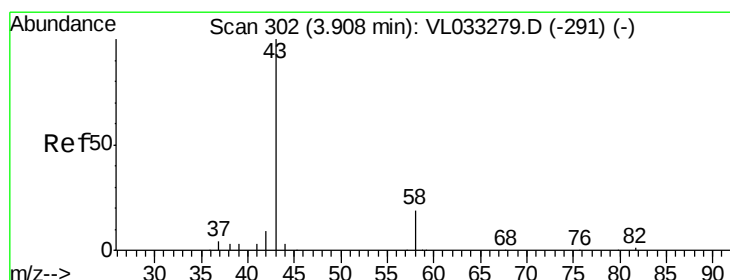
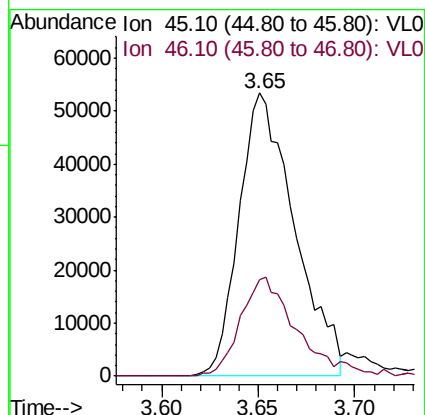
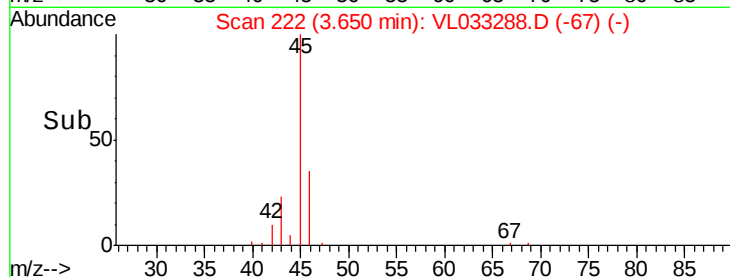
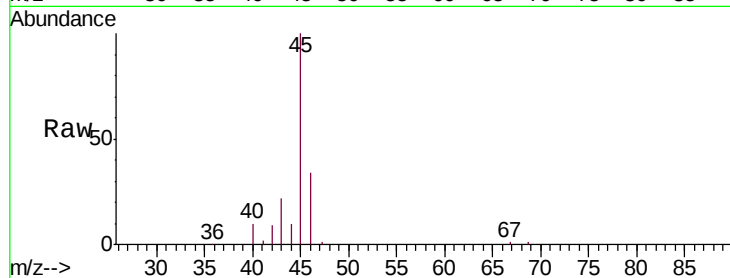
ST-DUP-1

Tgt Ion: 45 Resp: 106439

Ion Ratio Lower Upper

45 100

46 36.3 13.9 55.7



#15

Acetone

Concen: 3.987 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033288.D

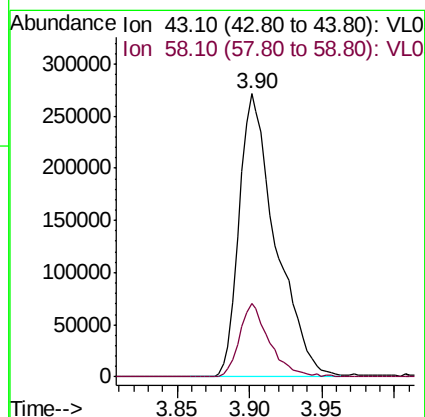
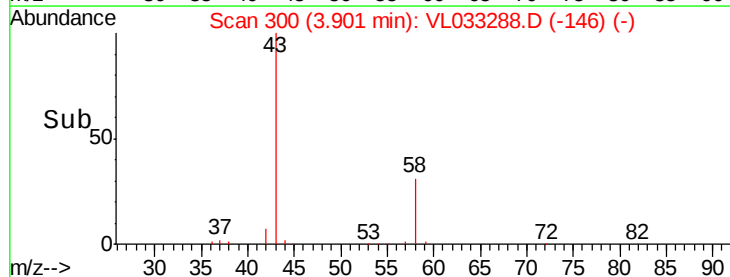
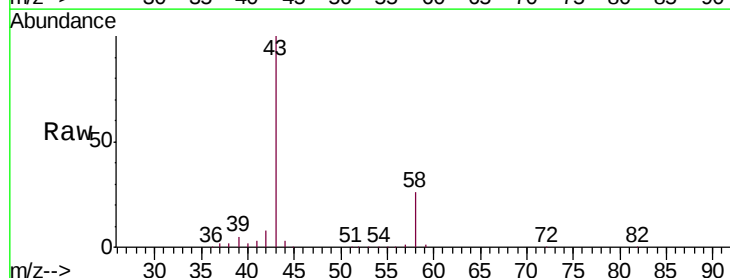
Acq: 12 Mar 2019 18:22

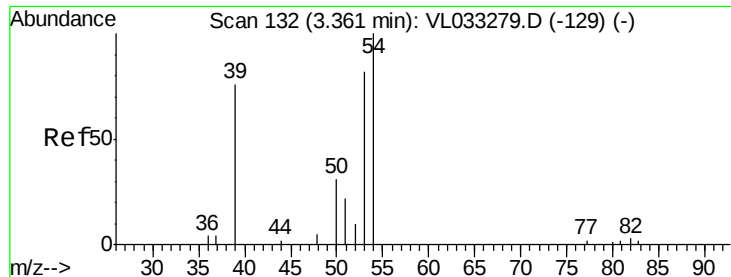
Tgt Ion: 43 Resp: 476791

Ion Ratio Lower Upper

43 100

58 21.5 21.1 31.7

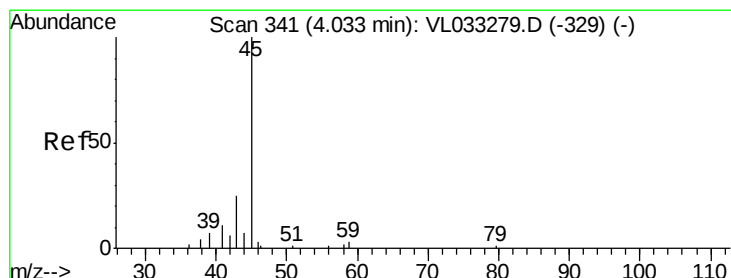
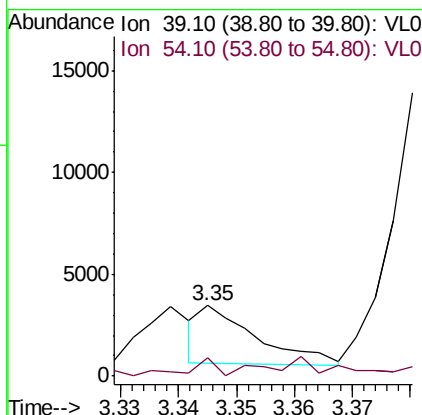
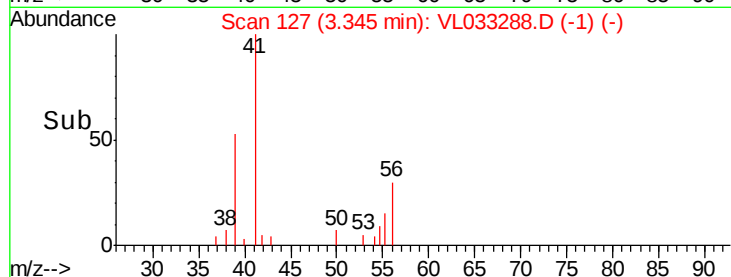
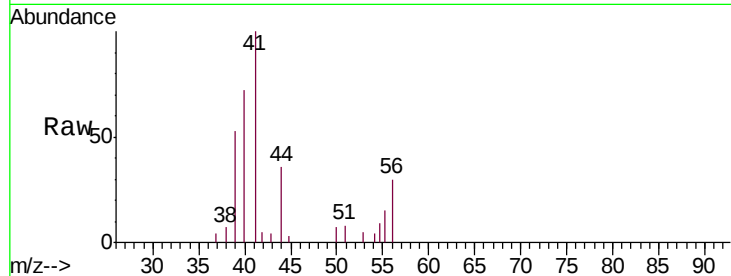




#16
 1,3-Butadiene
 Concen: 0.044 ppbv
 RT: 3.35 min Scan# 127
 Delta R.T. -0.02 min
 Lab File: VL033288.D
 Acq: 12 Mar 2019 18:22

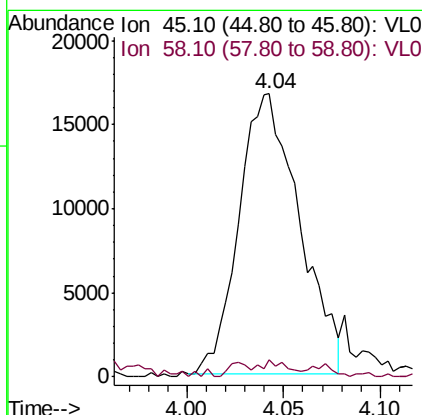
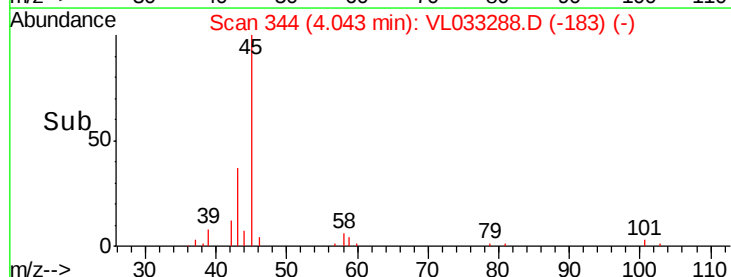
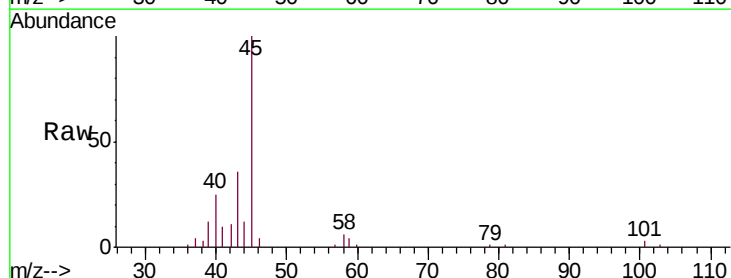
Instrument :
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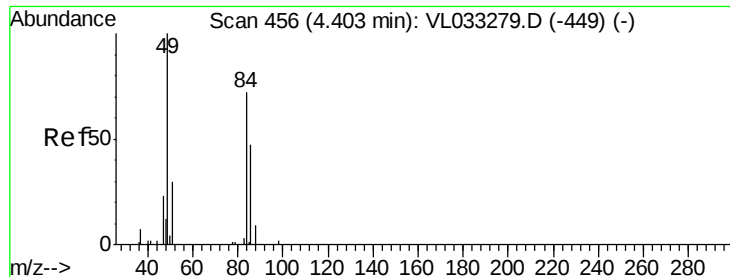
Tgt Ion: 39 Resp: 1907
 Ion Ratio Lower Upper
 39 100
 54 42.8 76.6 114.8#



#19
 Isopropyl Alcohol
 Concen: 0.503 ppbv
 RT: 4.04 min Scan# 344
 Delta R.T. 0.02 min
 Lab File: VL033288.D
 Acq: 12 Mar 2019 18:22

Tgt Ion: 45 Resp: 36373
 Ion Ratio Lower Upper
 45 100
 58 282.0 1.4 2.2#

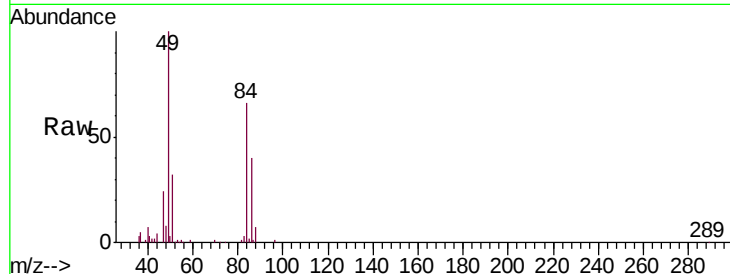




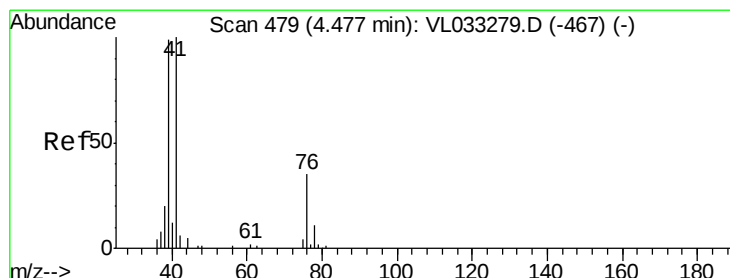
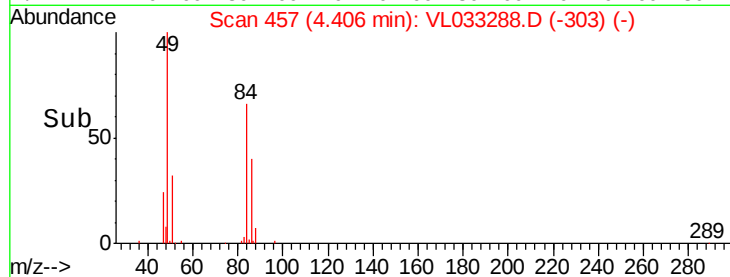
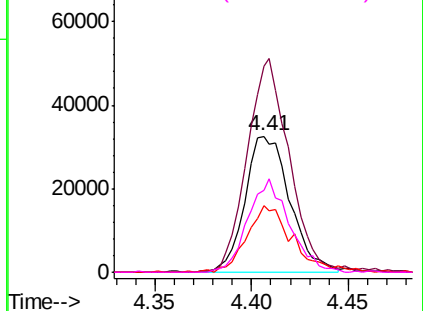
#20
Methylene Chloride
Concen: 1.321 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

Instrument :
MSVOA_L
ClientSampleId :
ST-DUP-1

Tgt Ion: 84 Resp: 52528
Ion Ratio Lower Upper
84 100
49 151.5 120.3 180.5
51 48.0 36.2 54.4
86 60.5 52.5 78.7

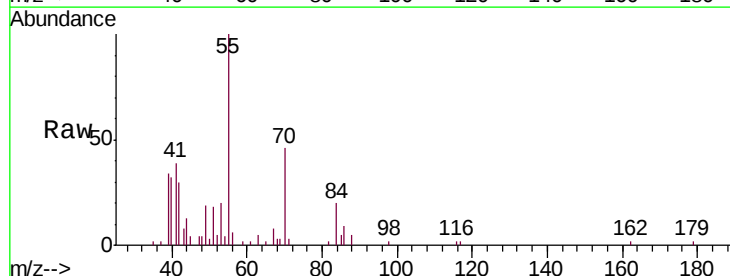


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

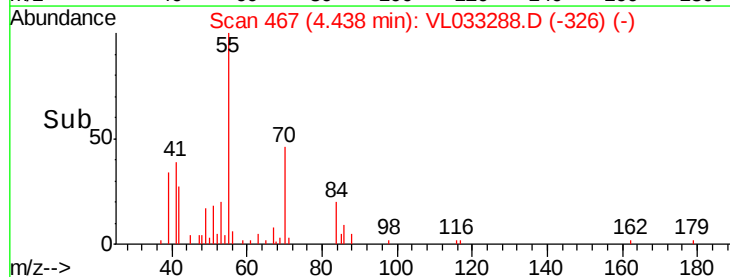
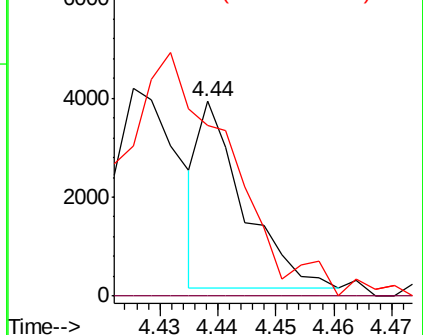


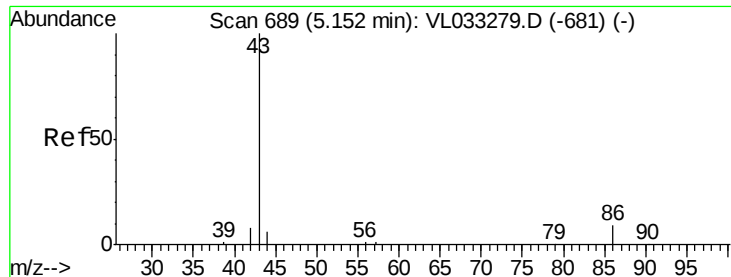
#21
Allyl Chloride
Concen: 0.034 ppbv
RT: 4.44 min Scan# 467
Delta R.T. -0.05 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

Tgt Ion: 41 Resp: 1997
Ion Ratio Lower Upper
41 100
76 0.0 25.0 37.4#
39 363.1 64.2 96.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.067 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.02 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

ST-DUP-1

Tgt Ion: 43 Resp: 9970

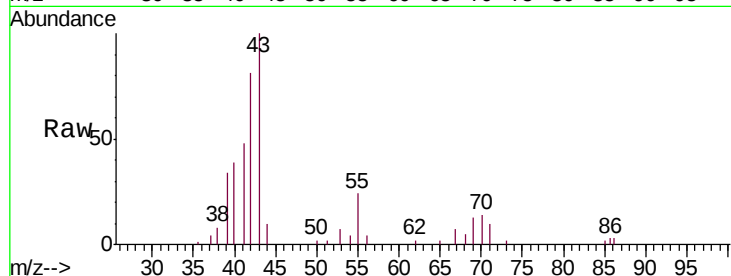
Ion Ratio Lower Upper

43 100

86 0.5 5.5 8.3#

42 93.6 7.8 11.6#

44 2.3 3.6 5.4#

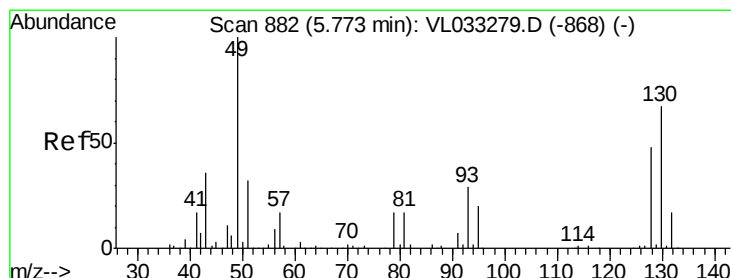
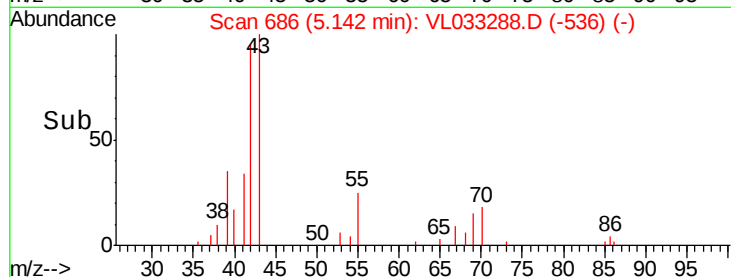
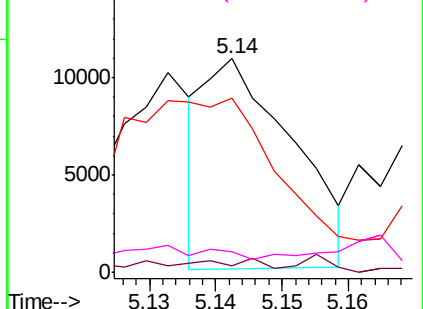


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.317 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

Tgt Ion: 43 Resp: 58332

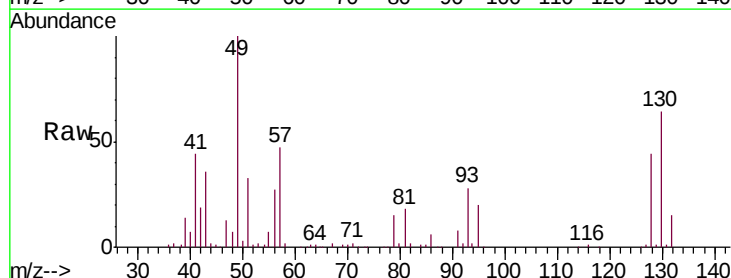
Ion Ratio Lower Upper

43 100

45 2.5 7.8 11.6#

61 1.2 7.3 10.9#

70 2.3 5.8 8.6#

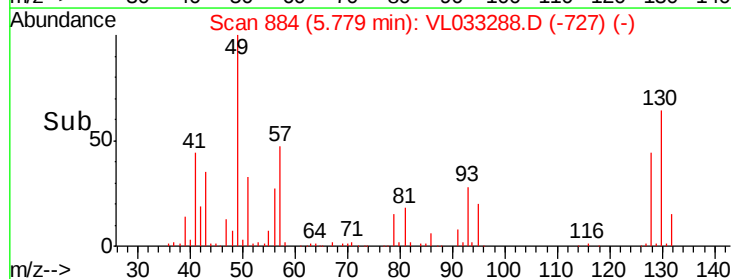
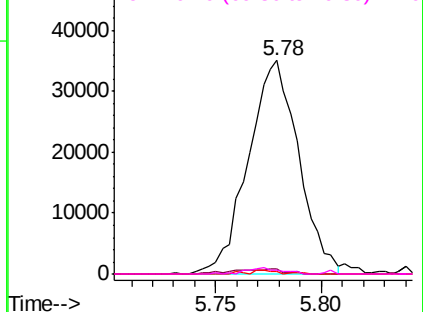


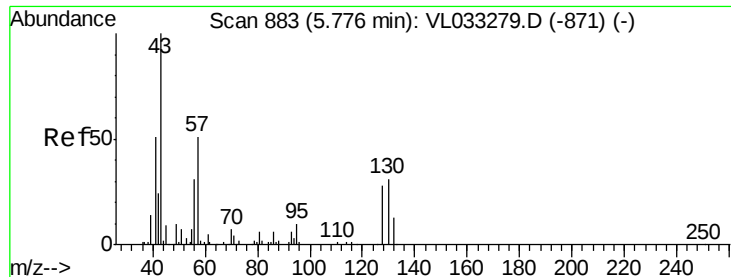
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.875 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

ST-DUP-1

Tgt Ion: 57 Resp: 75720

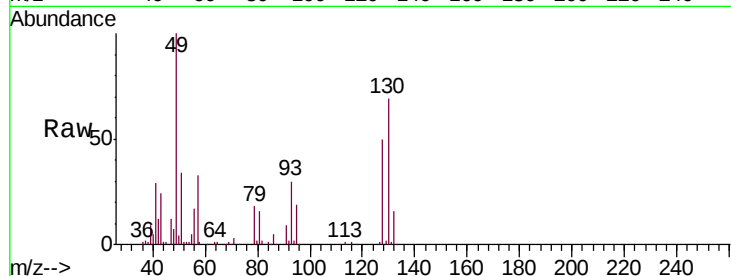
Ion Ratio Lower Upper

57 100

41 100.4 70.7 106.1

43 78.4 178.6 267.8#

56 57.4 41.3 61.9

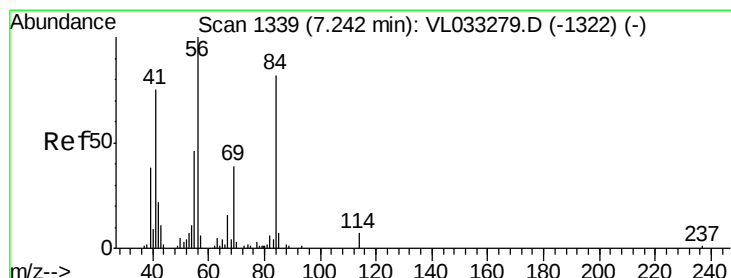
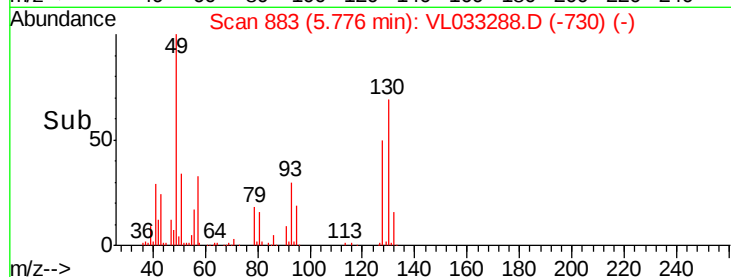
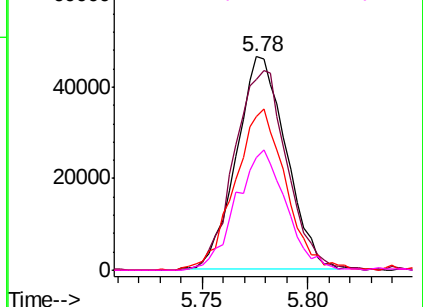


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.024 ppbv

RT: 7.24 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

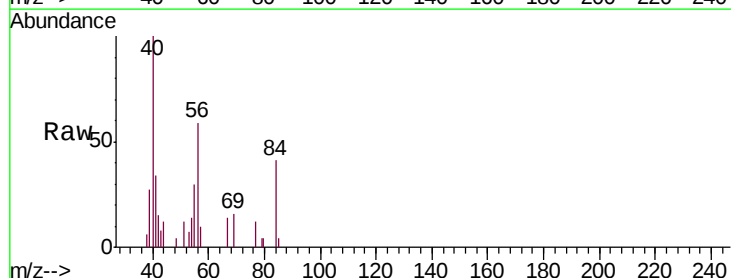
Tgt Ion: 84 Resp: 1632

Ion Ratio Lower Upper

84 100

56 0.0 112.0 168.0#

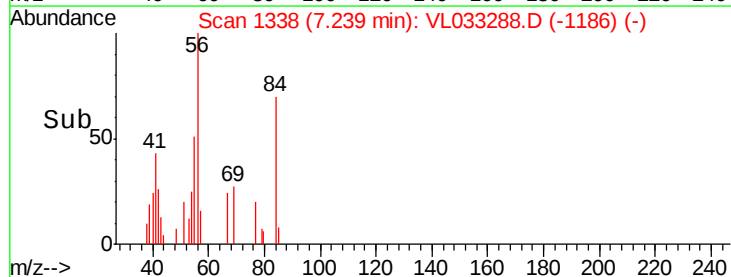
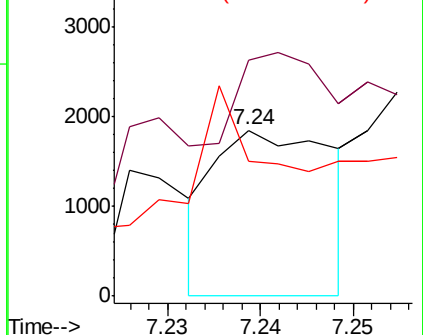
41 272.2 69.9 104.9#

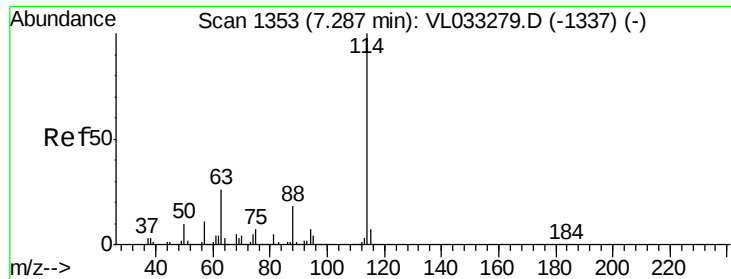


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

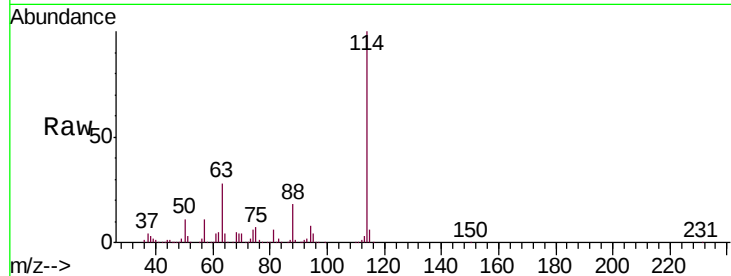




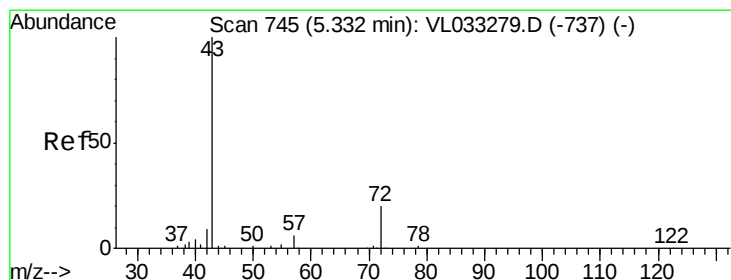
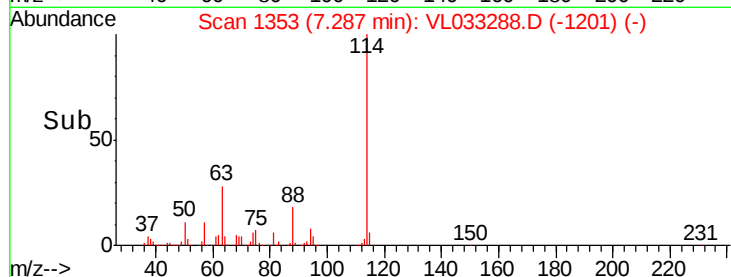
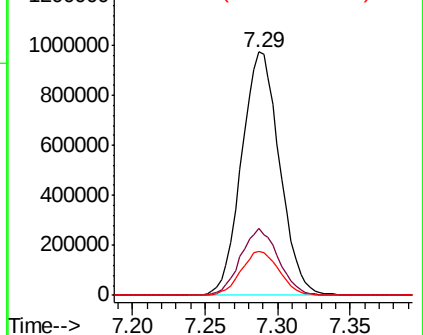
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033288.D
 Acq: 12 Mar 2019 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-DUP-1

Tgt Ion:114 Resp: 1779157
 Ion Ratio Lower Upper
 114 100
 63 27.3 21.5 32.3
 88 18.2 14.6 22.0

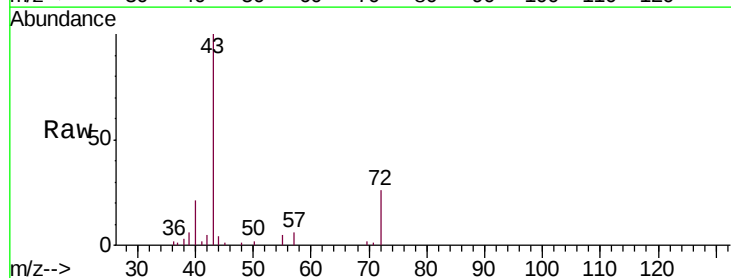


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

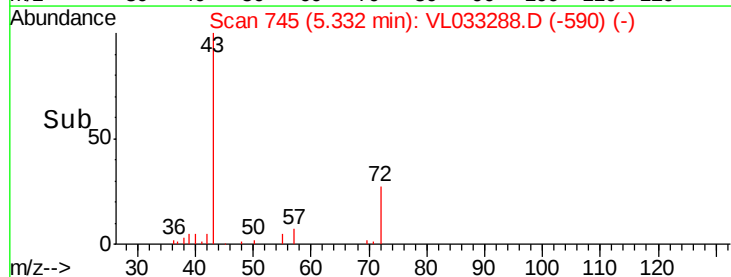
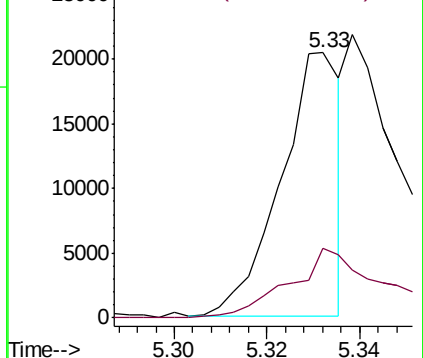


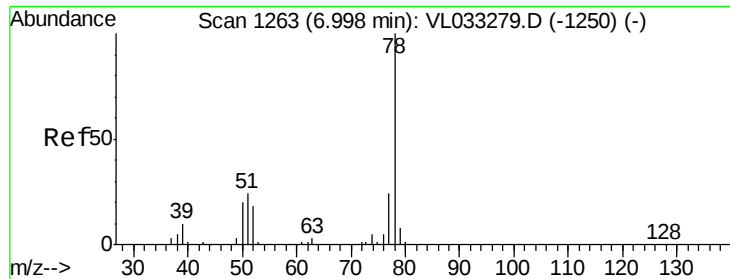
#34
 2-Butanone
 Concen: 0.154 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VL033288.D
 Acq: 12 Mar 2019 18:22

Tgt Ion: 43 Resp: 18134
 Ion Ratio Lower Upper
 43 100
 72 46.1 17.0 25.6#



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





#36

Benzene

Concen: 0.281 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

ST-DUP-1

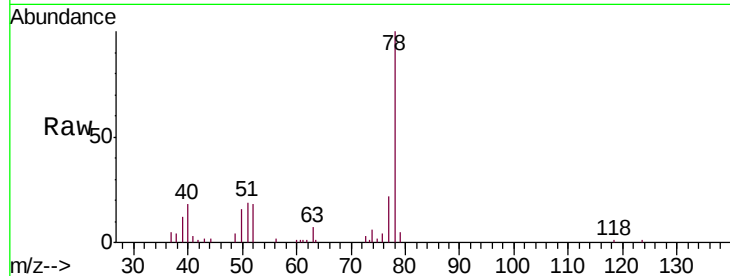
Tgt Ion: 78 Resp: 46086

Ion Ratio Lower Upper

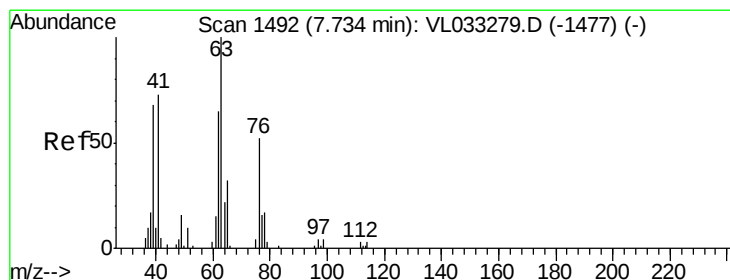
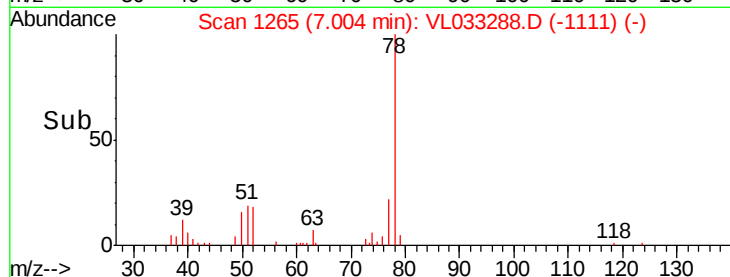
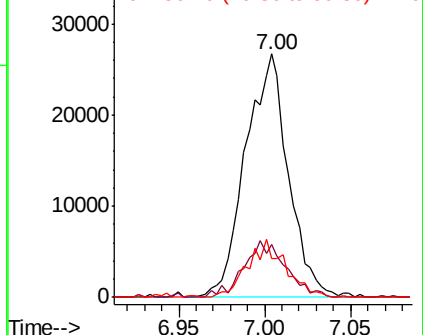
78 100

77 21.8 17.7 26.5

50 16.0 15.7 23.5



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: 7.847 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

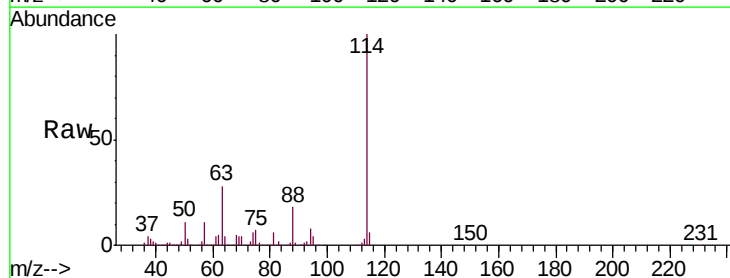
Tgt Ion: 63 Resp: 484519

Ion Ratio Lower Upper

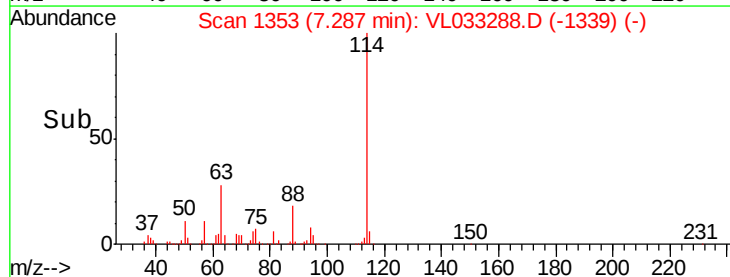
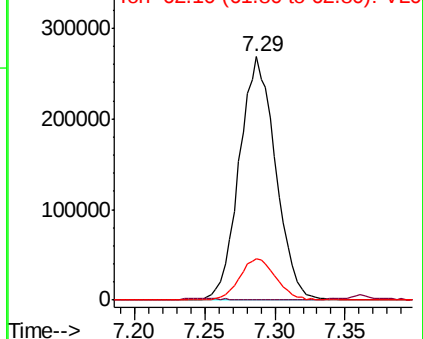
63 100

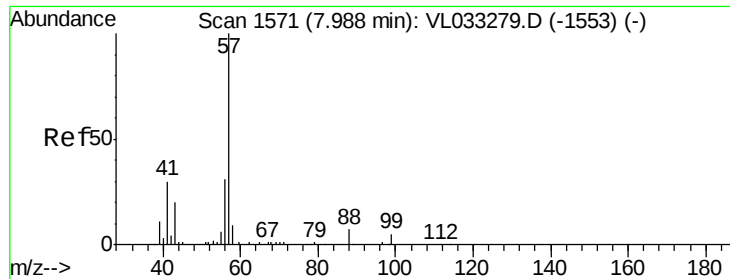
41 0.0 58.3 87.5#

62 17.2 55.3 82.9#



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

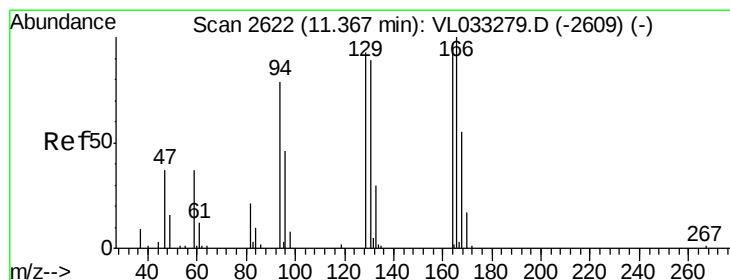
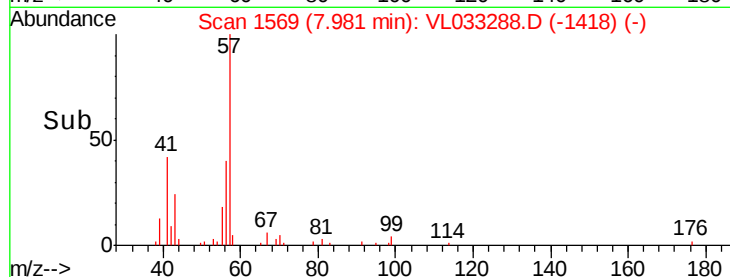
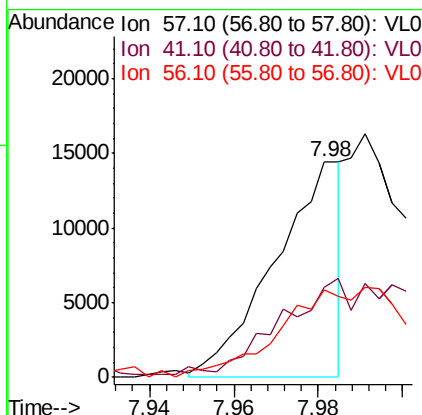
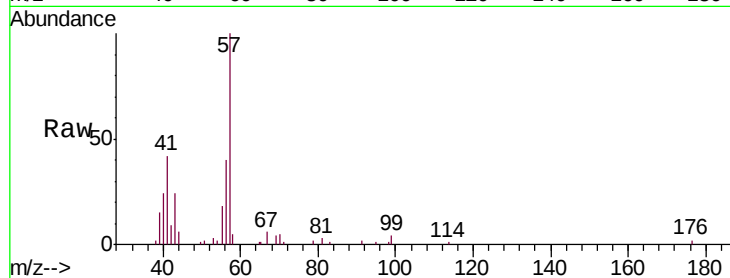




#44
2,2,4-Trimethylpentane
Concen: 0.057 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

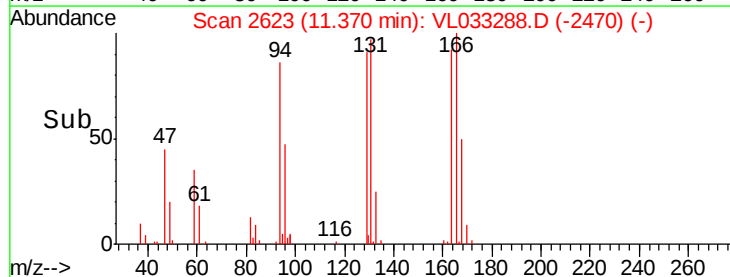
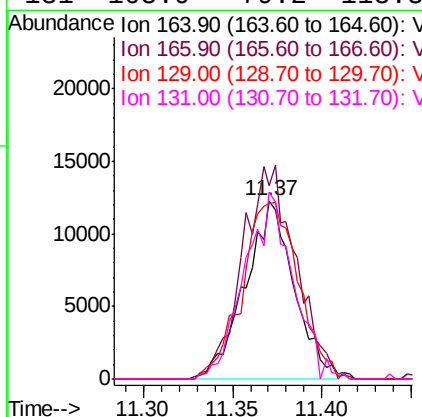
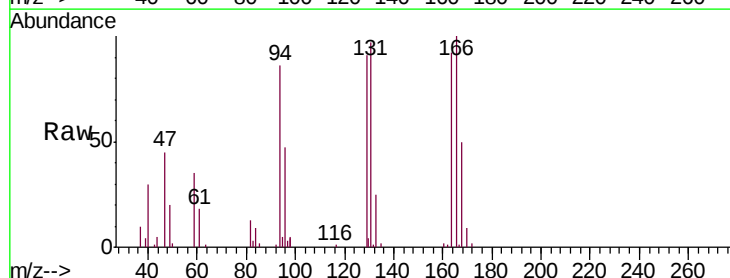
Instrument :
MSVOA_L
ClientSampleId :
ST-DUP-1

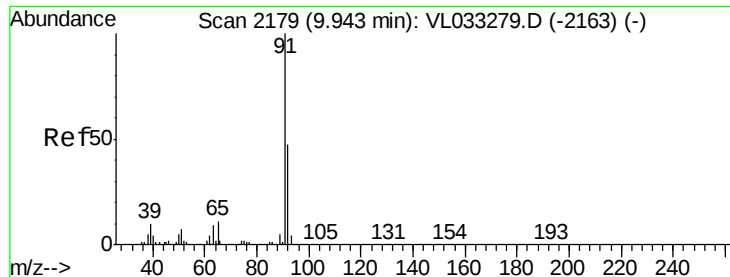
Tgt Ion: 57 Resp: 15875
Ion Ratio Lower Upper
57 100
41 98.4 26.2 39.2#
56 0.0 24.8 37.2#



#52
Tetrachloroethene
Concen: 0.390 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

Tgt Ion: 164 Resp: 23445
Ion Ratio Lower Upper
164 100
166 108.1 100.8 151.2
129 102.7 80.6 121.0
131 105.9 79.2 118.8





#53

Toluene

Concen: 1.255 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

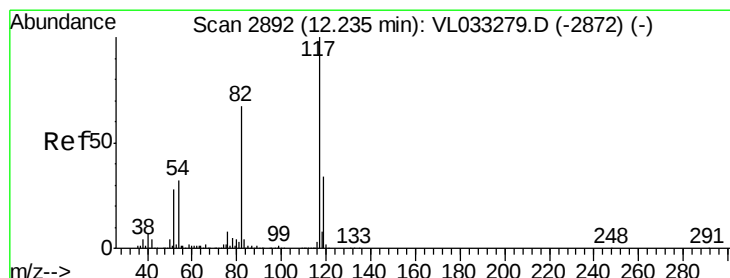
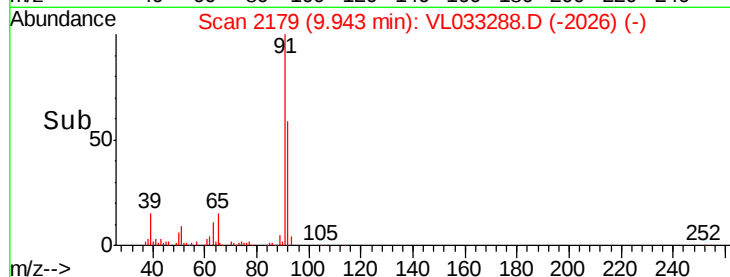
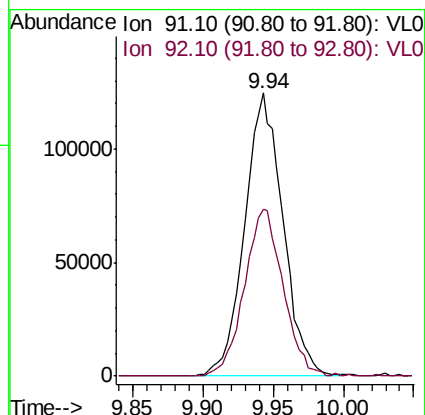
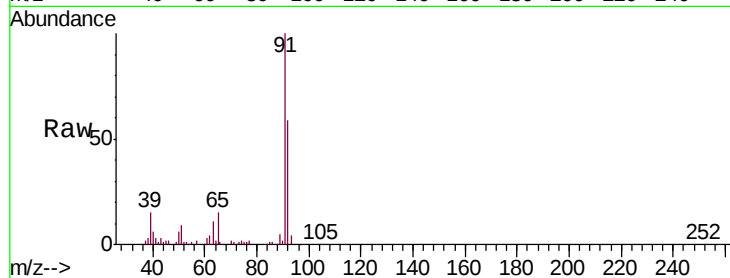
ST-DUP-1

Tgt Ion: 91 Resp: 237279

Ion Ratio Lower Upper

91 100

92 59.5 47.8 71.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033288.D

Acq: 12 Mar 2019 18:22

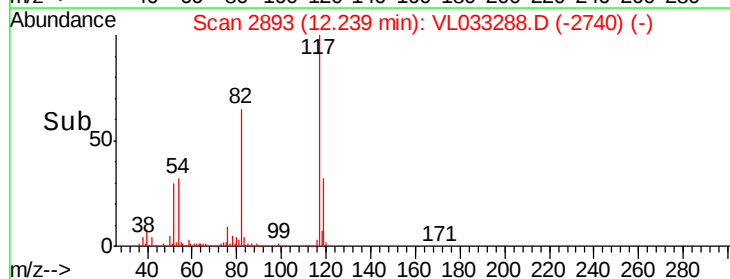
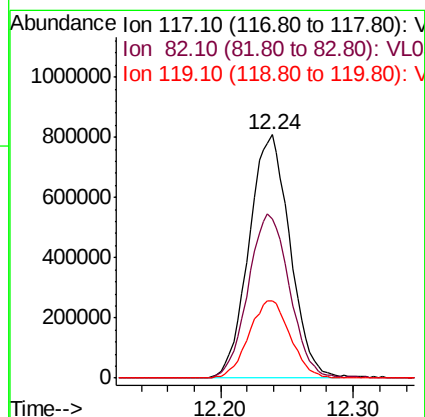
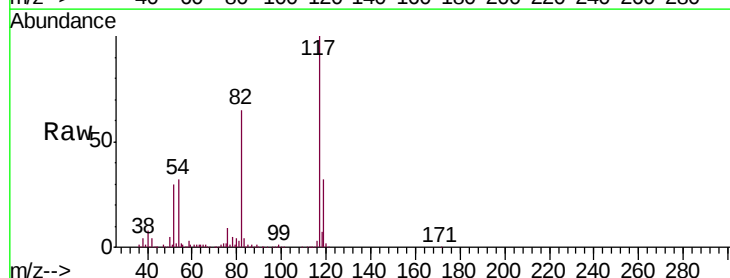
Tgt Ion: 117 Resp: 1735672

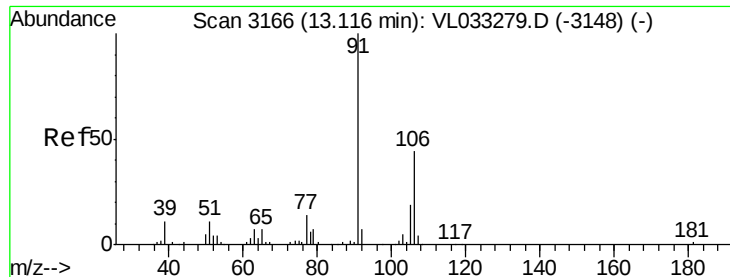
Ion Ratio Lower Upper

117 100

82 68.8 51.1 76.7

119 32.5 43.6 65.4#

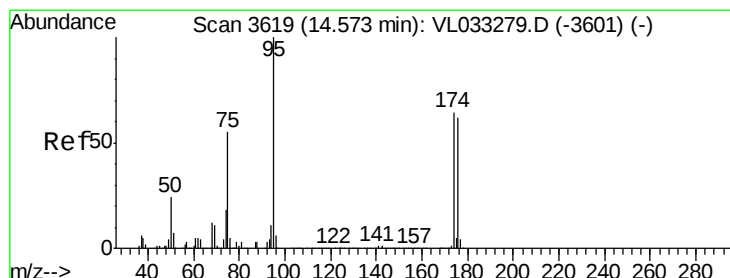
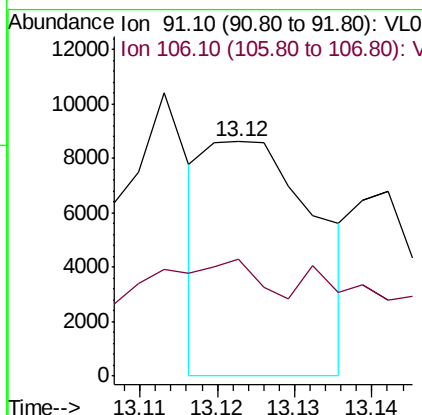
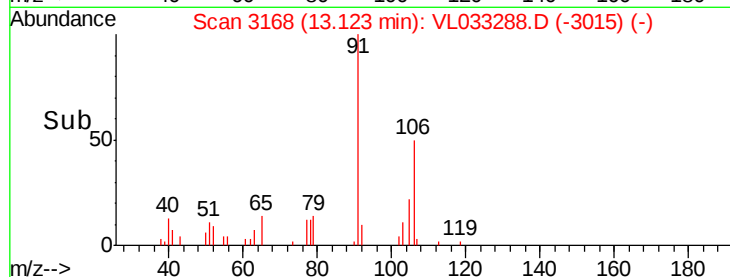
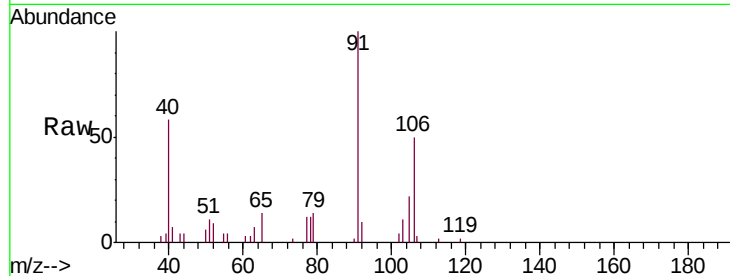




#59
m/p-Xylene
Concen: 0.043 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

Instrument :
MSVOA_L
ClientSampleId :
ST-DUP-1

Tgt Ion: 91 Resp: 8531
Ion Ratio Lower Upper
91 100
106 147.6 35.5 53.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.340 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033288.D
Acq: 12 Mar 2019 18:22

Tgt Ion: 95 Resp: 1385949
Ion Ratio Lower Upper
95 100
174 64.5 51.7 77.5
175 4.5 3.7 5.5

