

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035249.D
 Acq On : 29 Jul 2020 16:50
 Operator : SY/AP
 Sample : L3474-02DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:50:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1256228	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3012281	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2837330	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2283969	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

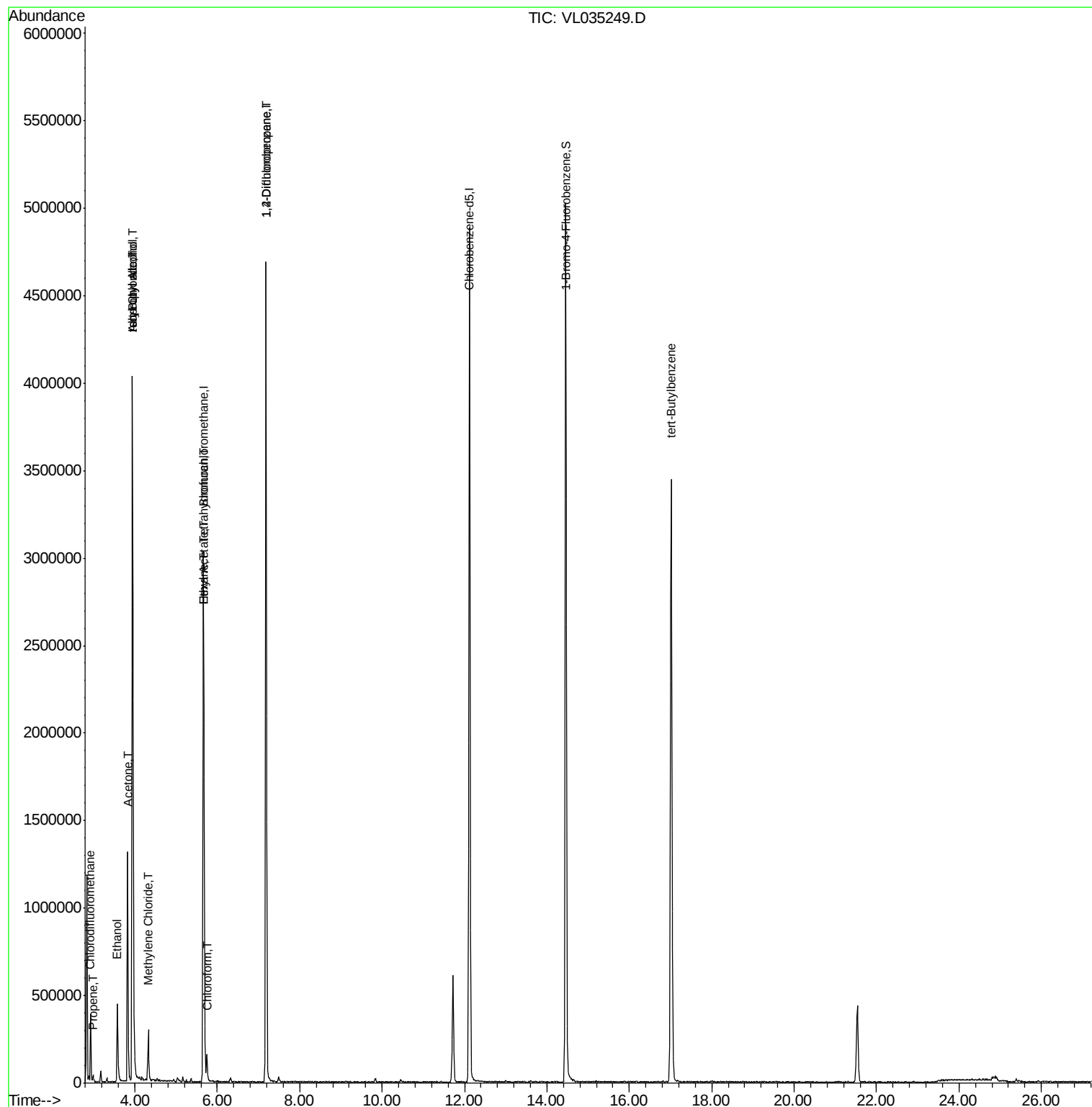
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.92	51	204909	1.474	ppbv #	56
9) Propene	2.98	41	9755	0.201	ppbv	94
13) Ethanol	3.57	45	423109	21.447	ppbv	93
15) Acetone	3.82	43	1253398	7.480	ppbv	100
17) tert-Butyl alcohol	3.94	59	171950	1.063	ppbv	100
19) Isopropyl Alcohol	3.94	45	4425706	40.047	ppbv #	98
20) Methylene Chloride	4.32	84	101480	1.330	ppbv	88
21) Allyl Chloride	3.94	41	463438	4.856	ppbv #	73
25) Ethyl Acetate	5.68	43	157514	0.602	ppbv #	79
26) Hexane	5.68	57	221871	1.879	ppbv #	41
29) Chloroform	5.74	83	90363	0.456	ppbv	94
39) 1,2-Dichloropropane	7.18	63	839334	10.049	ppbv #	23
41) Tetrahydrofuran	5.68	42	91927	1.224	ppbv #	45
65) tert-Butylbenzene	17.00	119	19522	0.052	ppbv #	27

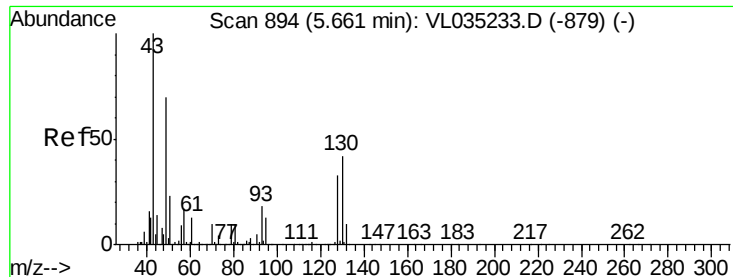
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 07:14:29 2020
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

Instrument :

MSVOA_L

ClientSampleId :

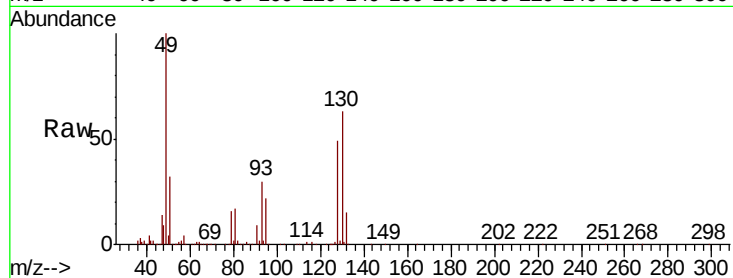
Tot Ion: 49 Resp: 1256228

Ion Ratio Lower Upper

49 100

128 50.4 24.0 72.0

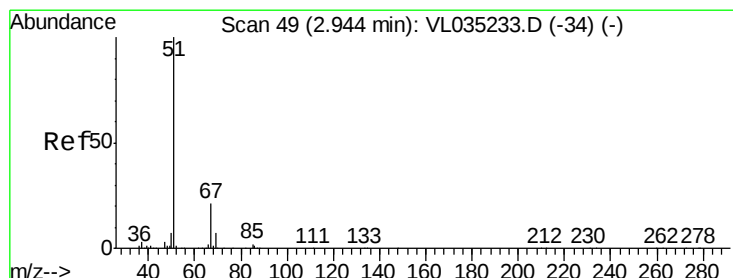
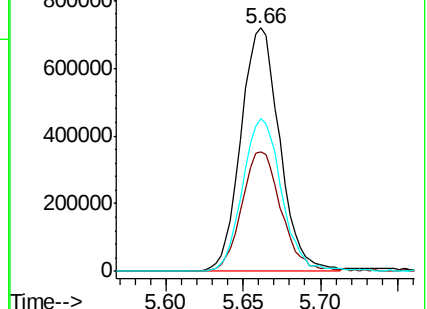
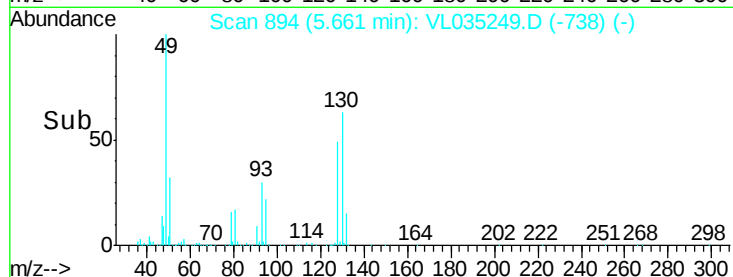
130 63.8 30.7 92.1



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



#3

Chlorodifluoromethane

Concen: 1.474 ppbv

RT: 2.92 min Scan# 42

Delta R.T. -0.02 min

Lab File: VL035249.D

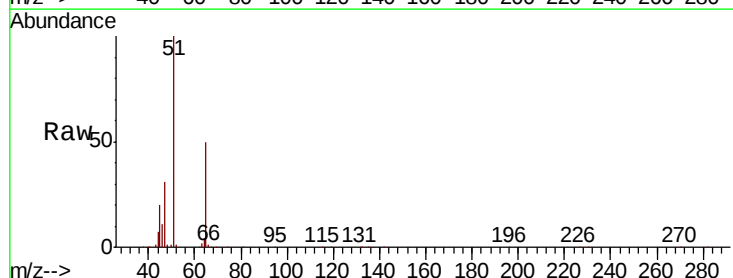
Acq: 29 Jul 2020 16:50

Tgt Ion: 51 Resp: 204909

Ion Ratio Lower Upper

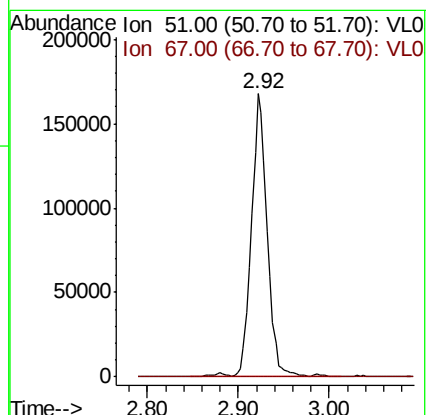
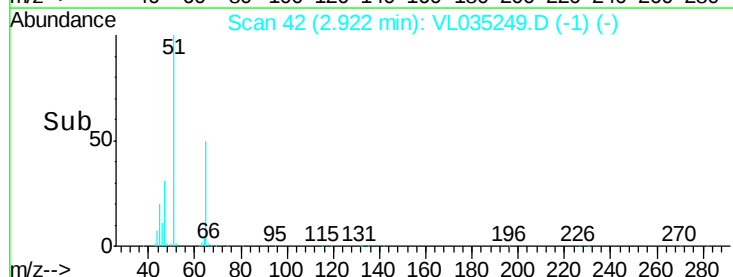
51 100

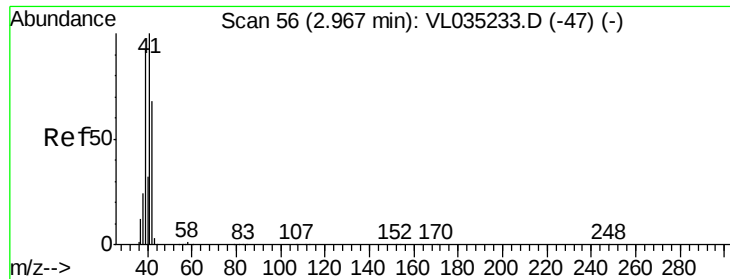
67 0.3 16.6 25.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.201 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

Instrument :

MSVOA_L

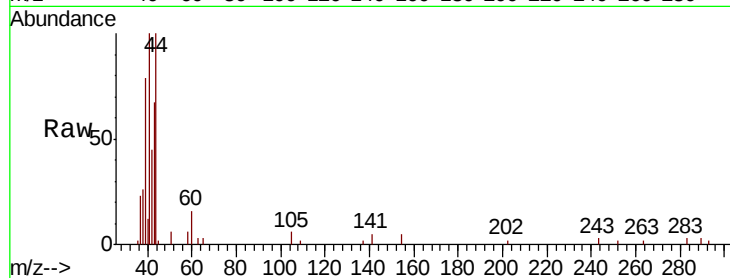
ClientSampleId :

Tot Ion: 41 Resp: 9755

Ion Ratio Lower Upper

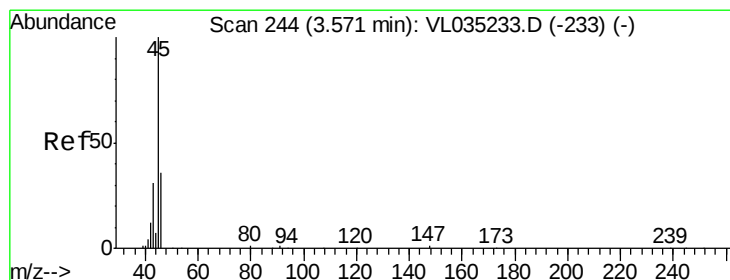
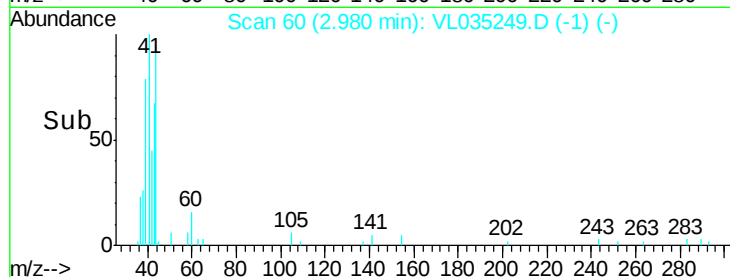
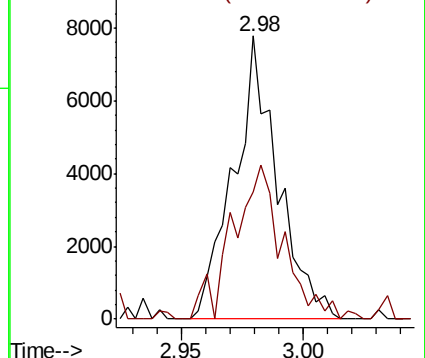
41 100

42 64.2 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 21.447 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035249.D

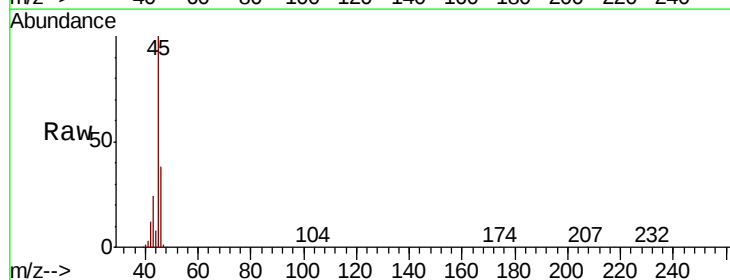
Acq: 29 Jul 2020 16:50

Tgt Ion: 45 Resp: 423109

Ion Ratio Lower Upper

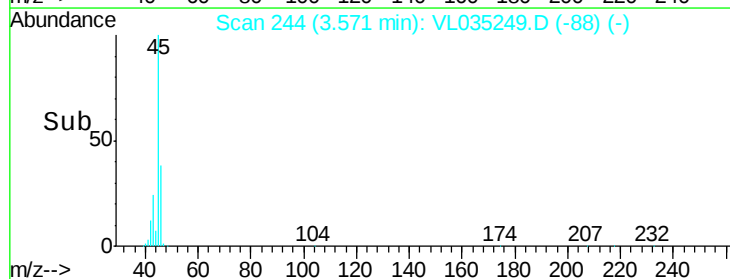
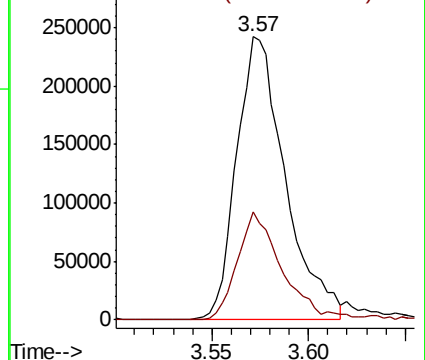
45 100

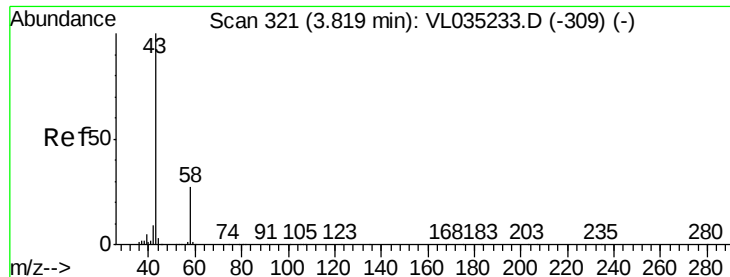
46 35.5 15.8 63.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.480 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

Instrument :

MSVOA_L

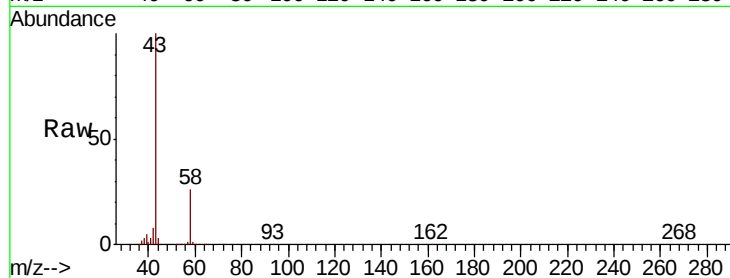
ClientSampleId :

Tot Ion: 43 Resp: 1253398

Ion Ratio Lower Upper

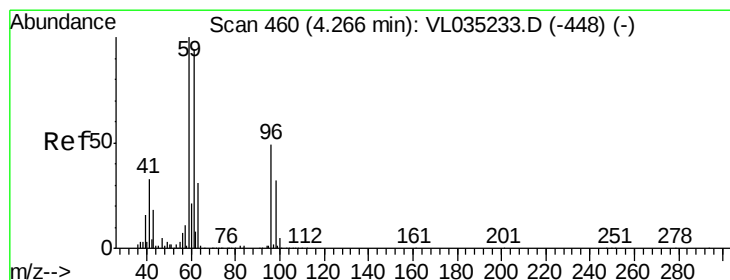
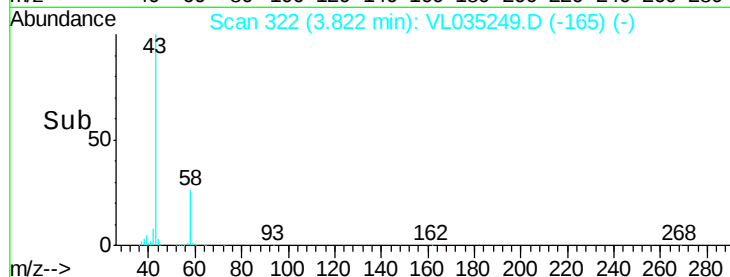
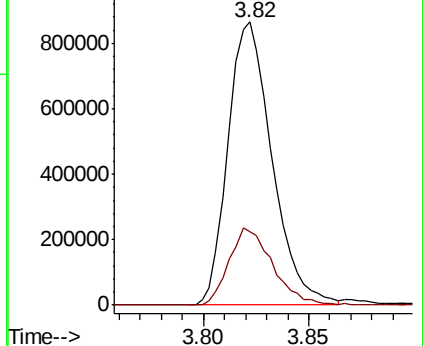
43 100

58 27.3 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 1.063 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.32 min

Lab File: VL035249.D

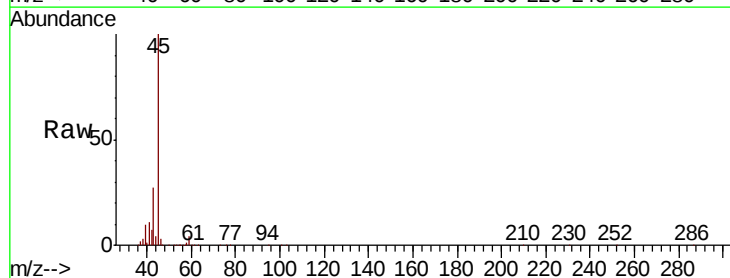
Acq: 29 Jul 2020 16:50

Tgt Ion: 59 Resp: 171950

Ion Ratio Lower Upper

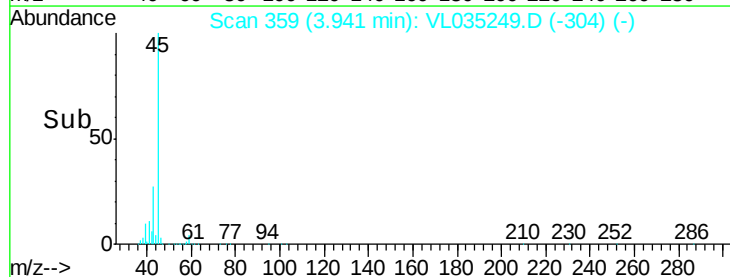
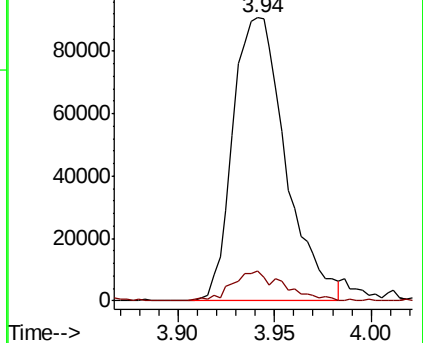
59 100

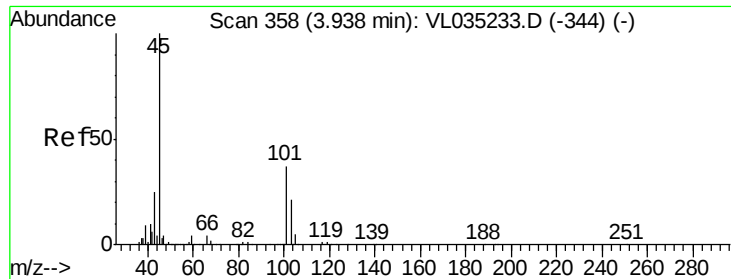
57 10.5 8.6 12.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 40.047 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

Instrument :

MSVOA_L

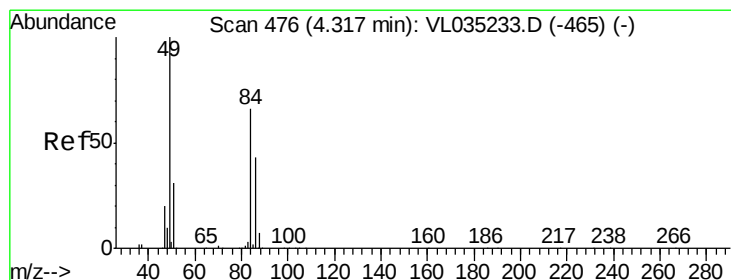
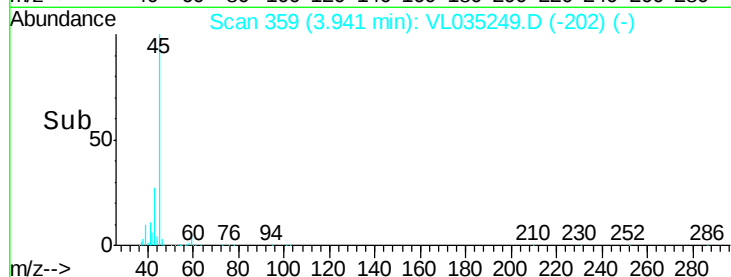
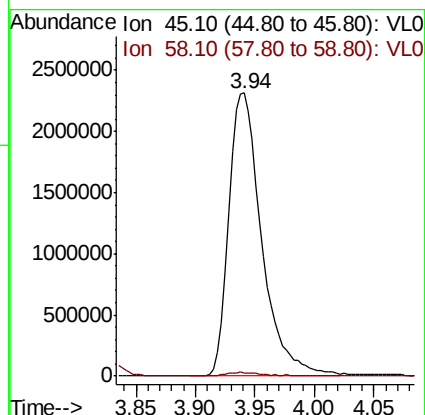
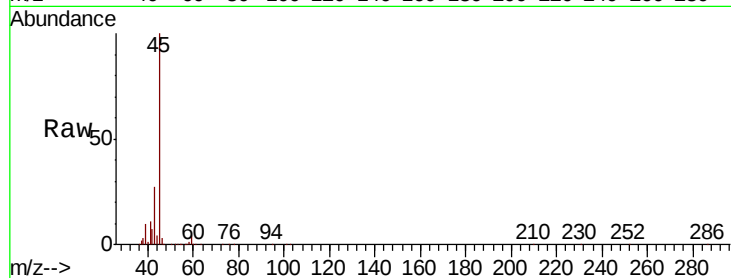
ClientSampleId :

Tot Ion: 45 Resp: 4425706

Ion Ratio Lower Upper

45 100

58 1.6 1.9 2.9#



#20

Methylene Chloride

Concen: 1.330 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.00 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

Tgt Ion: 84 Resp: 101480

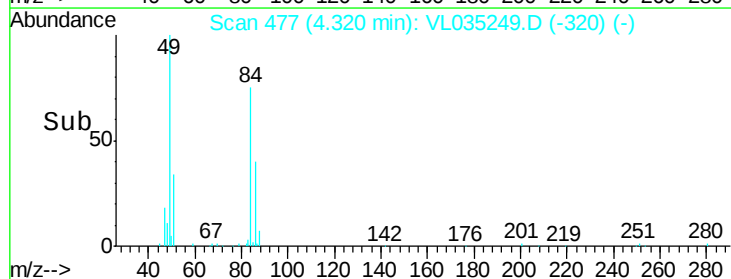
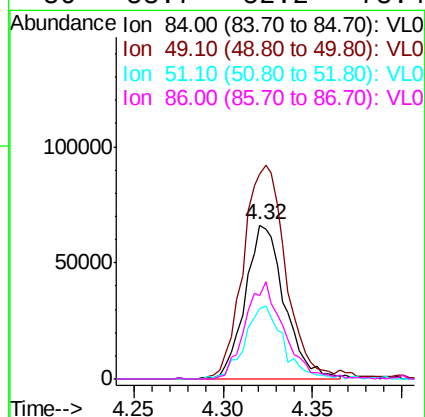
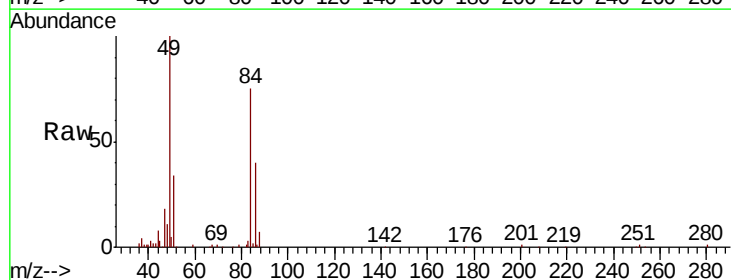
Ion Ratio Lower Upper

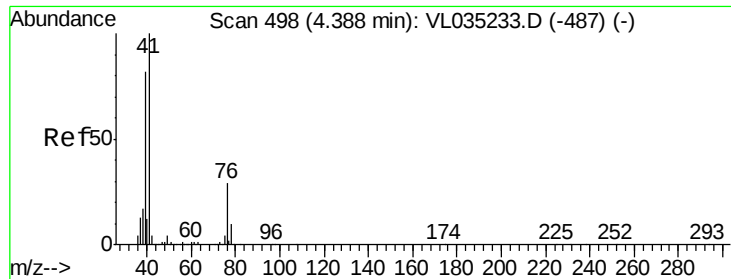
84 100

49 133.0 121.0 181.4

51 45.9 37.7 56.5

86 53.7 52.2 78.4

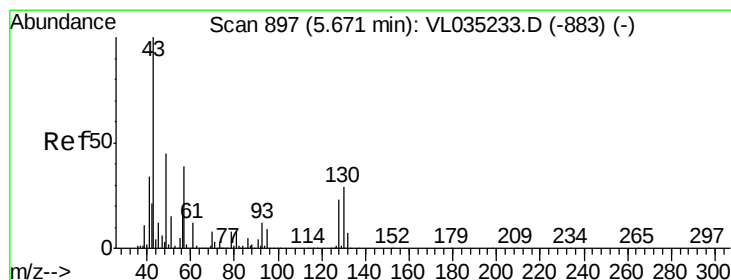
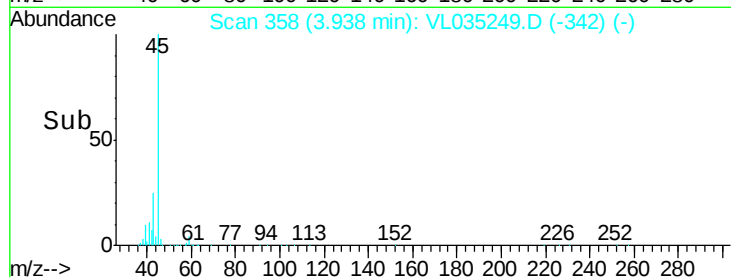
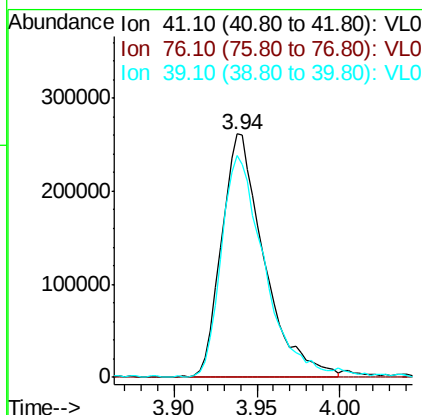
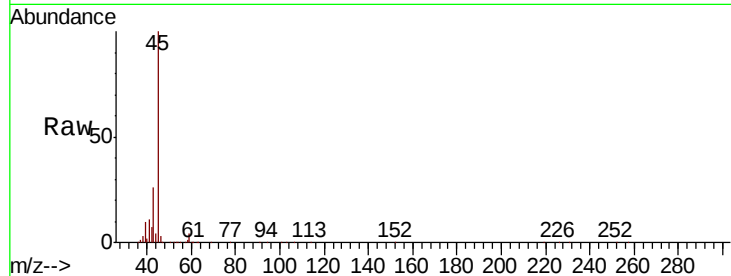




#21
Allvl Chloride
Concen: 4.856 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.45 min
Lab File: VL035249.D
Acq: 29 Jul 2020 16:50

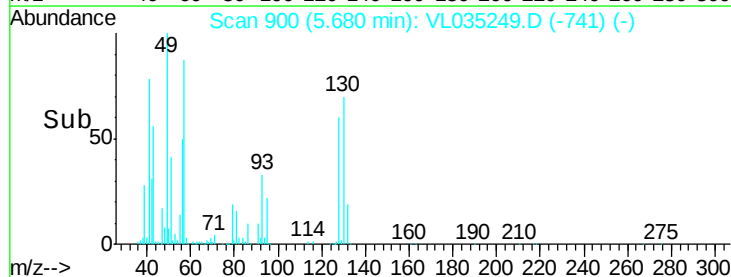
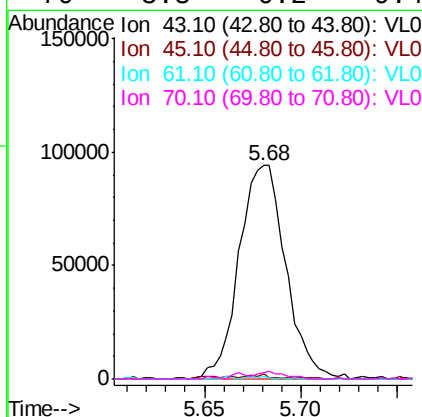
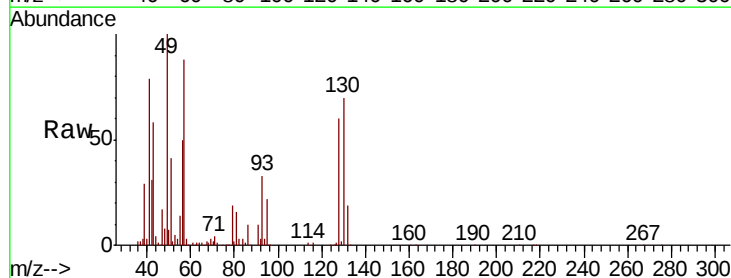
Instrument :
MSVOA_L
ClientSampleId :

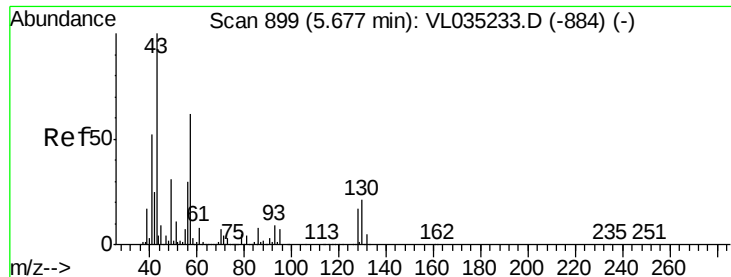
Tot Ion: 41 Resp: 463438
Ion Ratio Lower Upper
41 100
76 0.0 24.4 36.6#
39 94.1 63.8 95.8



#25
Ethyl Acetate
Concen: 0.602 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL035249.D
Acq: 29 Jul 2020 16:50

Tgt Ion: 43 Resp: 157514
Ion Ratio Lower Upper
43 100
45 2.2 8.5 12.7#
61 1.0 8.1 12.1#
70 3.3 6.2 9.4#

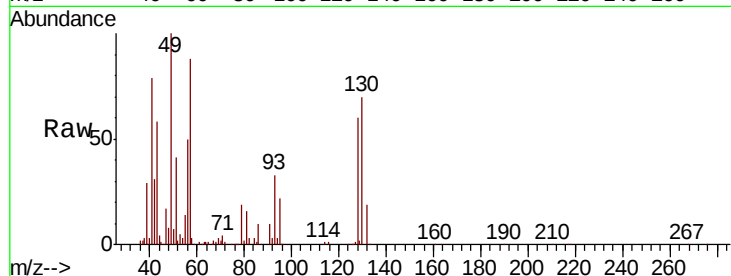




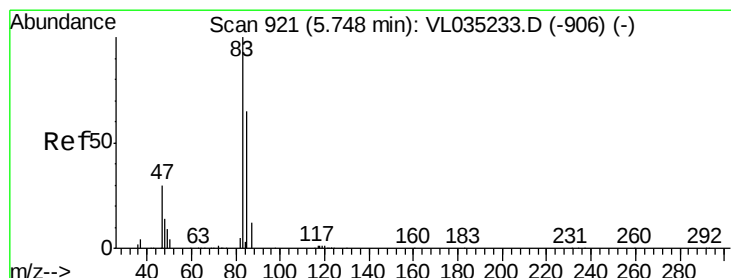
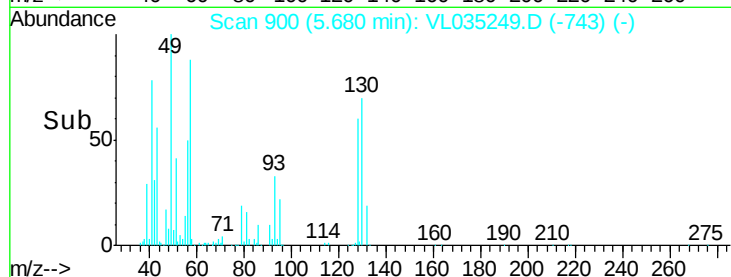
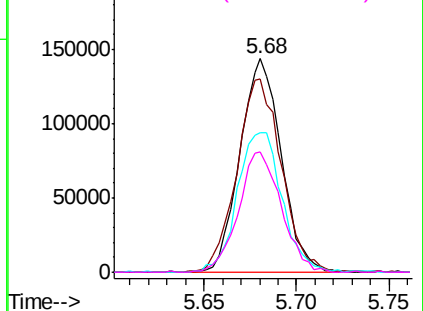
#26
Hexane
Concen: 1.879 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035249.D
Acq: 29 Jul 2020 16:50

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 221871
Ion Ratio Lower Upper
57 100
41 98.2 73.9 110.9
43 71.6 177.6 266.4#
56 58.5 43.0 64.4

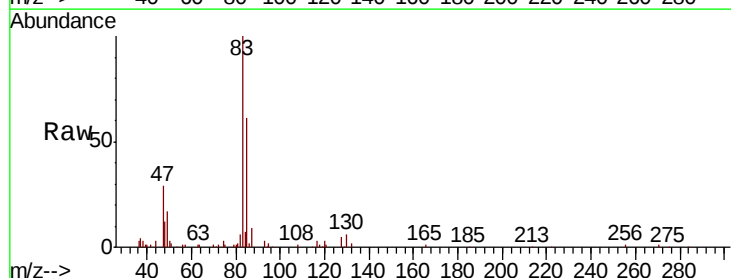


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

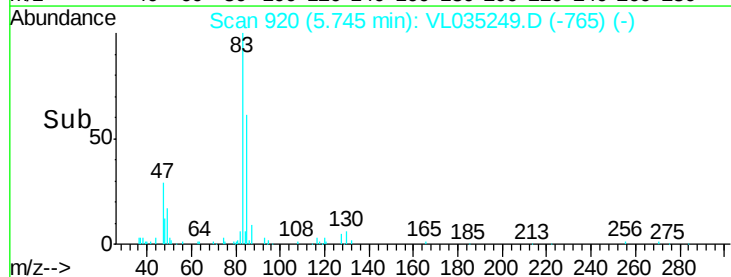
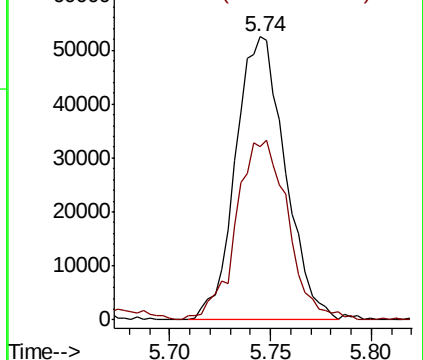


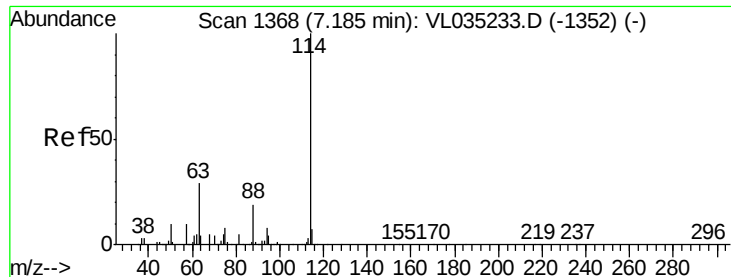
#29
Chloroform
Concen: 0.456 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL035249.D
Acq: 29 Jul 2020 16:50

Tgt Ion: 83 Resp: 90363
Ion Ratio Lower Upper
83 100
85 60.0 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

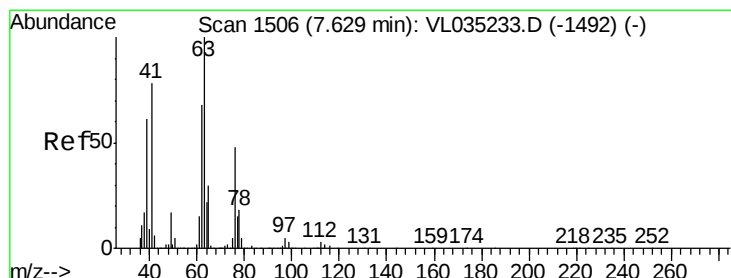
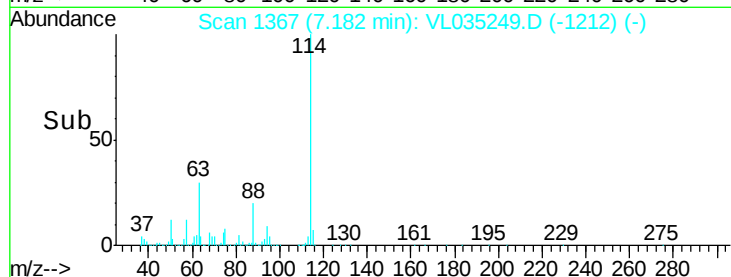
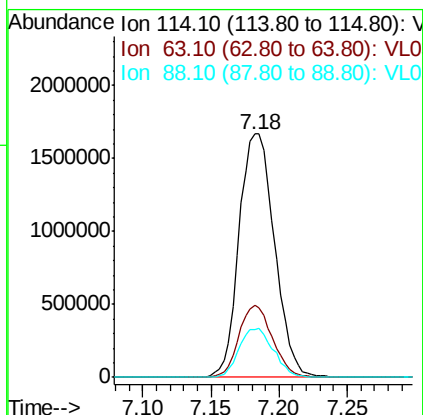
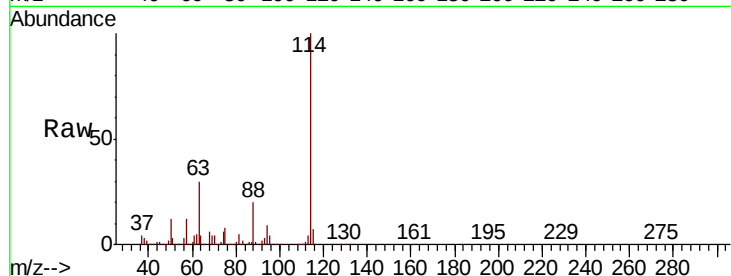




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL035249.D
 Acq: 29 Jul 2020 16:50

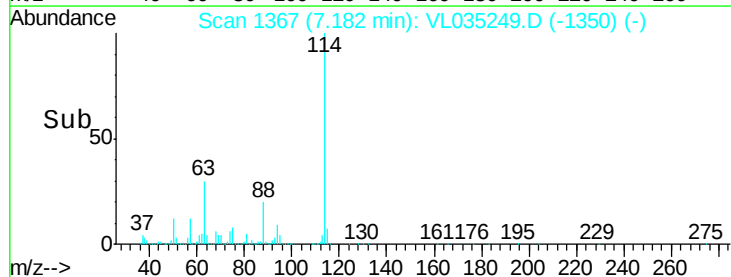
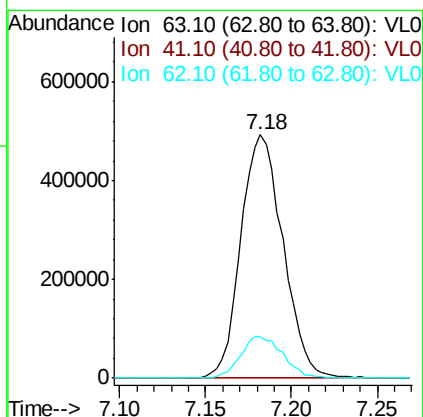
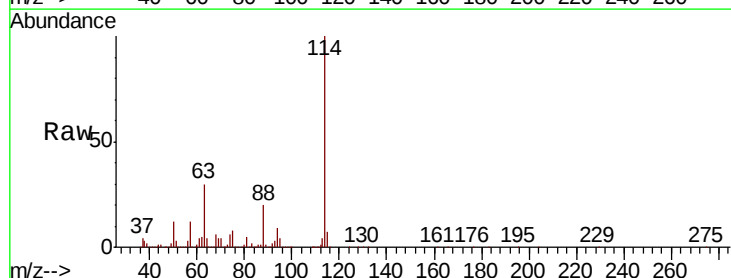
Instrument :
 MSVOA_L
 ClientSampleId :

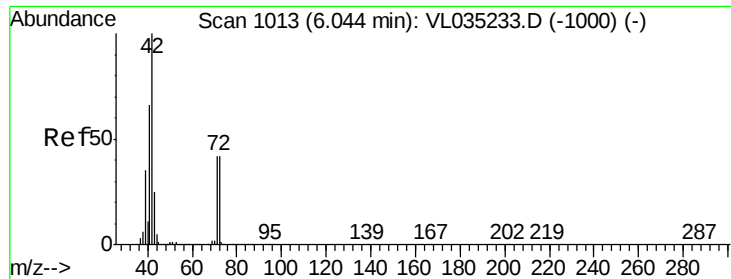
Tot Ion:114 Resp: 3012281
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.2 33.2
 88 19.5 15.4 23.0



#39
 1,2-Dichloropropane
 Concen: 10.049 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.45 min
 Lab File: VL035249.D
 Acq: 29 Jul 2020 16:50

Tgt Ion: 63 Resp: 839334
 Ion Ratio Lower Upper
 63 100
 41 0.1 62.2 93.4#
 62 17.2 54.2 81.2#





#41

Tetrahydrofuran

Concen: 1.224 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.37 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

Instrument :

MSVOA_L

ClientSampleId :

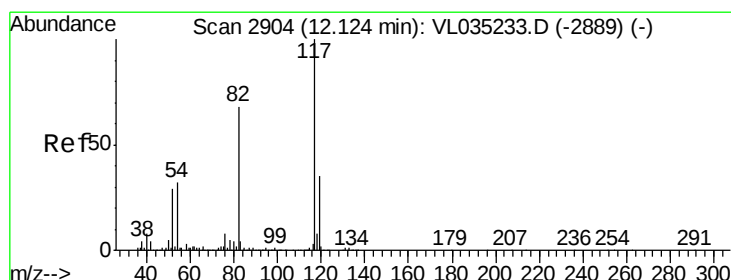
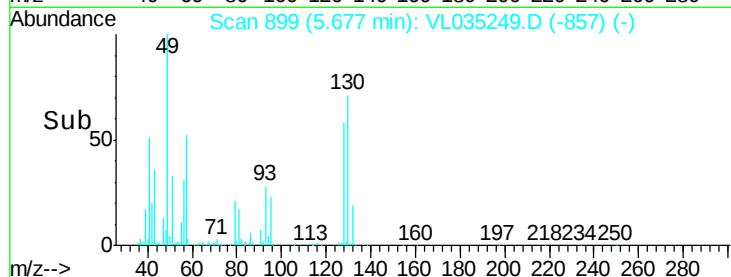
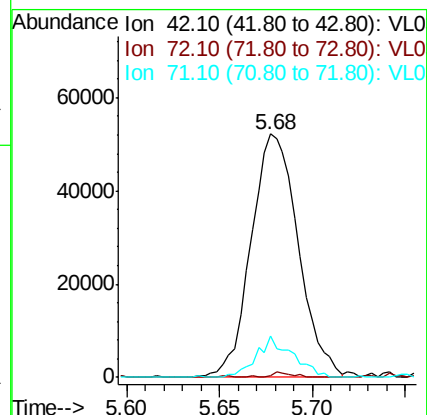
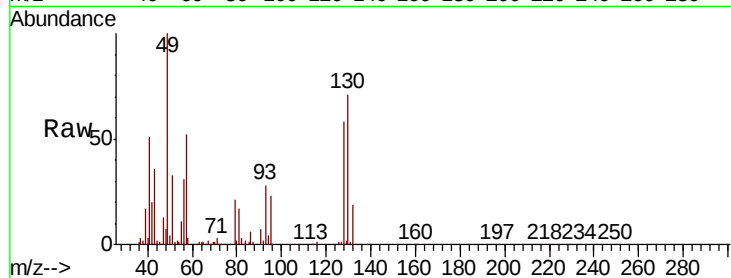
Tot Ion: 42 Resp: 91927

Ion Ratio Lower Upper

42 100

72 1.0 34.2 51.2#

71 13.1 33.2 49.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.01 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

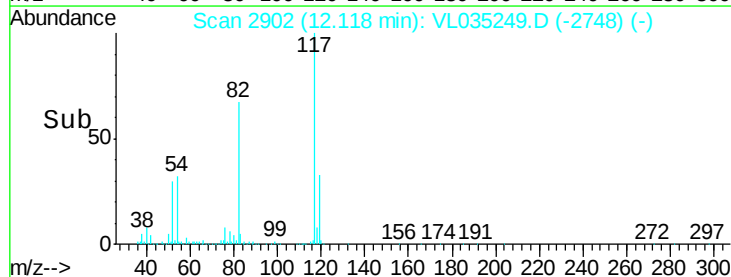
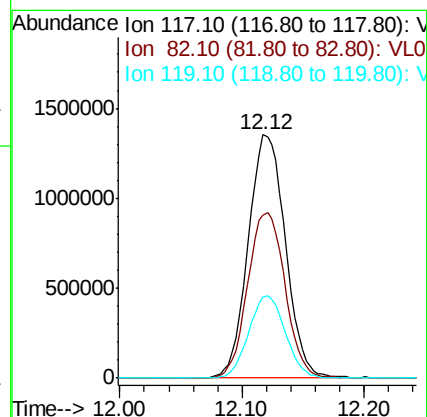
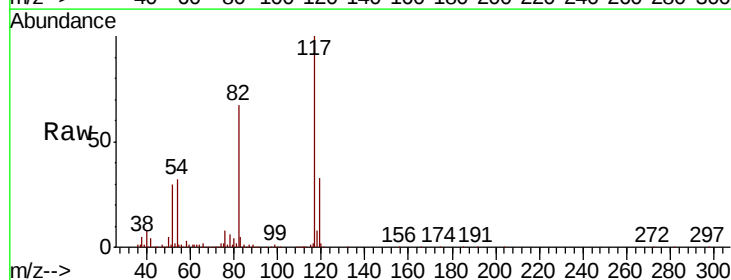
Tgt Ion: 117 Resp: 2837330

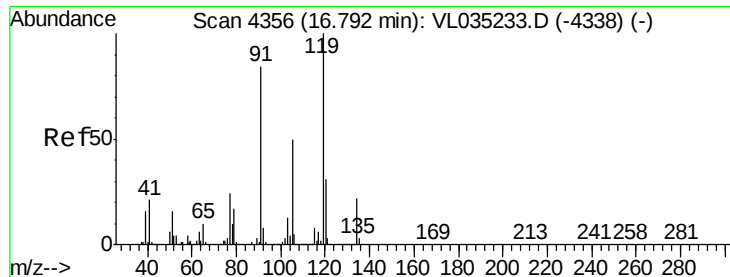
Ion Ratio Lower Upper

117 100

82 68.7 52.4 78.6

119 33.5 24.6 36.8





#65

tert-Butylbenzene

Concen: 0.052 ppbv

RT: 17.00 min Scan# 4421

Delta R.T. 0.21 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

Instrument :

MSVOA_L

ClientSampleId :

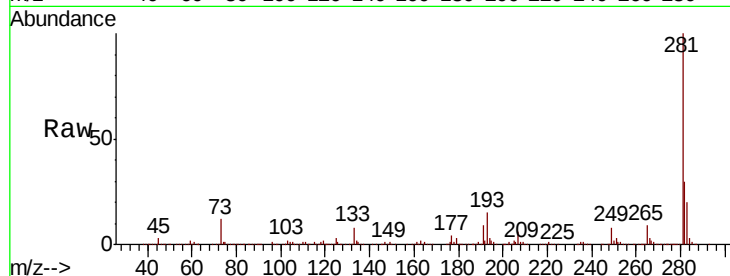
Tot Ion:119 Resp: 19522

Ion Ratio Lower Upper

119 100

91 11.8 68.0 102.0#

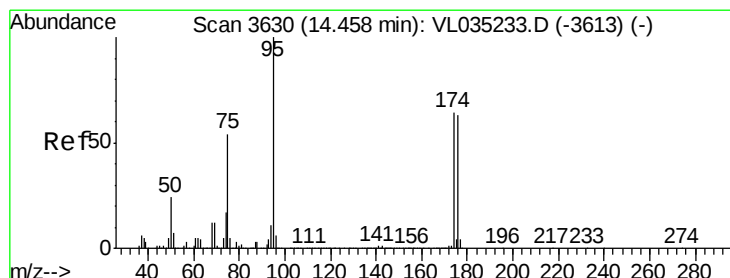
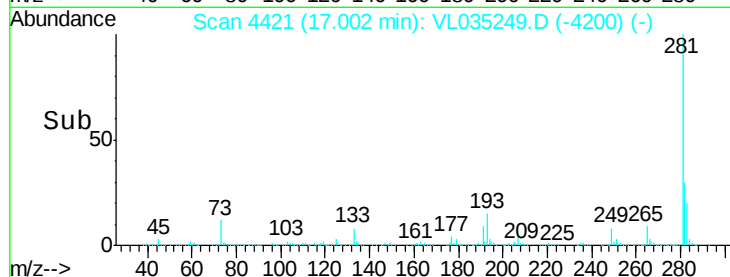
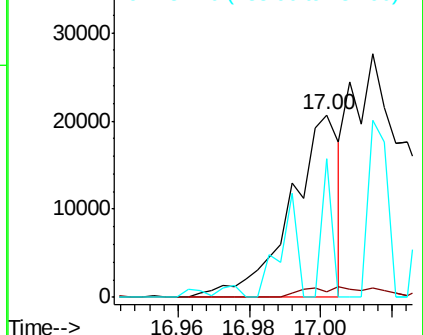
134 0.0 16.3 24.5#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.074 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL035249.D

Acq: 29 Jul 2020 16:50

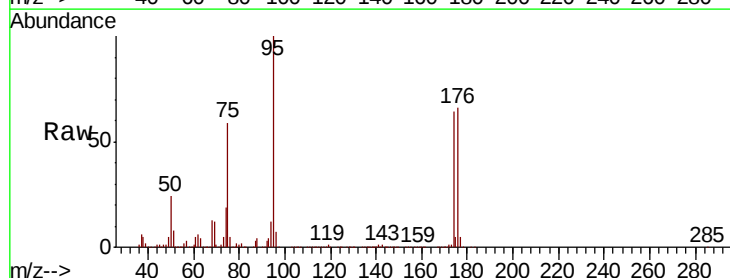
Tgt Ion: 95 Resp: 2283969

Ion Ratio Lower Upper

95 100

174 65.2 52.7 79.1

175 4.6 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

