

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033470.D
 Acq On : 27 Mar 2019 16:05
 Operator : SY/AP
 Sample : K2042-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:28:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

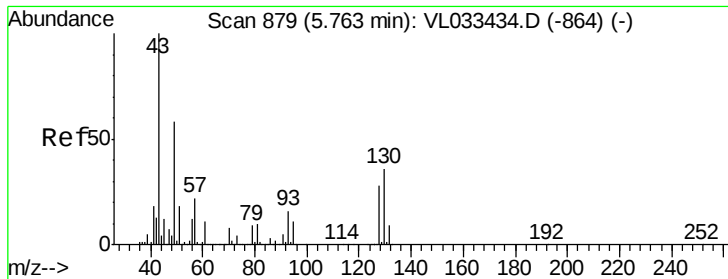
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	696801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1607725	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1579728	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1267231	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	28438	0.280	ppbv	99
3) Chlorodifluoromethane	2.99	51	13348319	166.396	ppbv #	57
4) Chloromethane	3.17	50	31042	0.731	ppbv	98
6) Bromomethane	3.51	94	594	0.022	ppbv #	44
7) Chloroethane	3.60	64	642	0.041	ppbv #	85
9) Propene	3.24	41	207267	6.152	ppbv	89
10) Heptane	8.24	43	14240	0.158	ppbv	99
11) Trichlorofluoromethane	4.00	101	32485	0.259	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7310	0.087	ppbv	91
13) Ethanol	3.65	45	3371475	386.739	ppbv	65
15) Acetone	3.90	43	565940	6.755	ppbv	95
16) 1,3-Butadiene	3.34	39	11416	0.344	ppbv #	26
17) tert-Butyl alcohol	4.37	59	6108	0.396	ppbv #	73
19) Isopropyl Alcohol	4.03	45	494069	9.323	ppbv #	98
20) Methylene Chloride	4.41	84	34188	0.961	ppbv #	82
21) Allyl Chloride	4.36	41	7868	0.149	ppbv #	96
23) Vinyl Acetate	5.14	43	26083	0.219	ppbv #	82
25) Ethyl Acetate	5.77	43	70182	0.451	ppbv #	89
26) Hexane	5.77	57	68349	0.989	ppbv #	50
29) Chloroform	5.85	83	7267	0.061	ppbv	86
34) 2-Butanone	5.33	43	24166	0.250	ppbv	97
35) Carbon Tetrachloride	7.13	117	9175	0.081	ppbv #	79
36) Benzene	7.00	78	35213	0.261	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1856	0.021	ppbv #	84
39) 1,2-Dichloropropane	7.29	63	425220	8.047	ppbv #	23
44) 2,2,4-Trimethylpentane	7.98	57	9430	0.040	ppbv #	13
52) Tetrachloroethene	11.37	164	95835	1.883	ppbv	92
53) Toluene	9.94	91	922144	5.883	ppbv	100
58) Ethyl Benzene	12.86	91	11299	0.054	ppbv	92
59) m/p-Xylene	13.15	91	17578	0.093	ppbv #	100
60) o-Xylene	13.84	91	18166	0.100	ppbv	88
73) 1,3,5-Trimethylbenzene	16.16	105	6123	0.031	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	9269	0.044	ppbv #	67
78) Hexachloro-1,3-Butadiene	23.54	225	5184	0.064	ppbv #	55
80) Naphthalene,2-methyl-	25.11	142	5191	0.086	ppbv	91
81) 1,2,4-Trichlorobenzene	22.13	180	2885	0.029	ppbv #	9

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

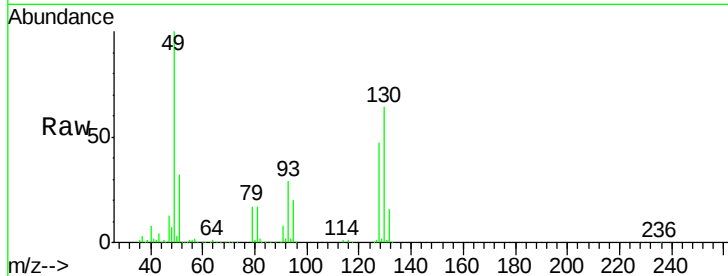
Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 696801

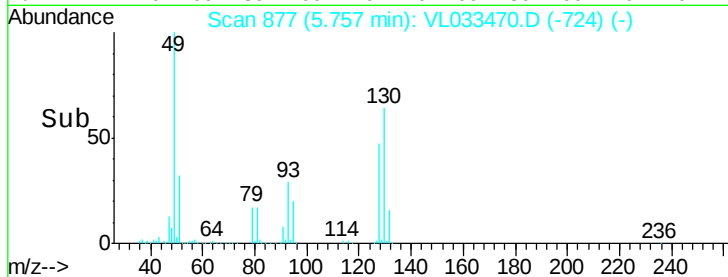
Ion	Ratio	Lower	Upper
49	100		
128	47.9	24.0	72.0
130	62.0	31.2	93.6



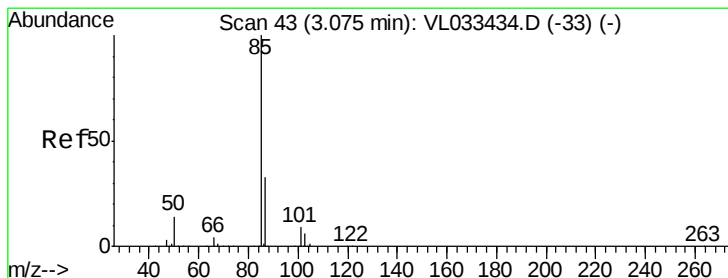
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.280 ppbv

RT: 3.07 min Scan# 42

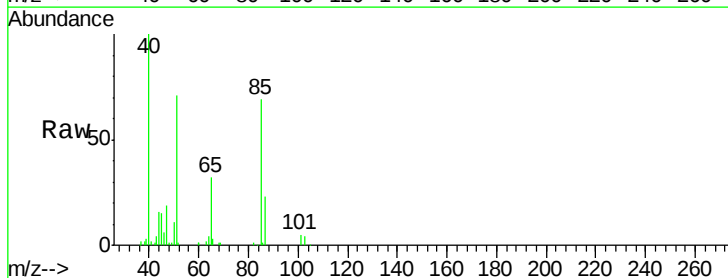
Delta R.T. -0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

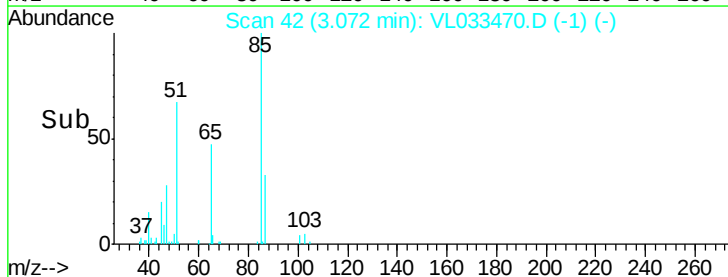
Tgt Ion: 85 Resp: 28438

Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.7	40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->



#3

Chlorodifluoromethane

Concen: 166.396 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

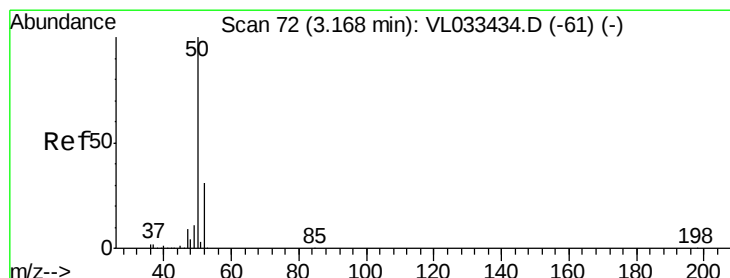
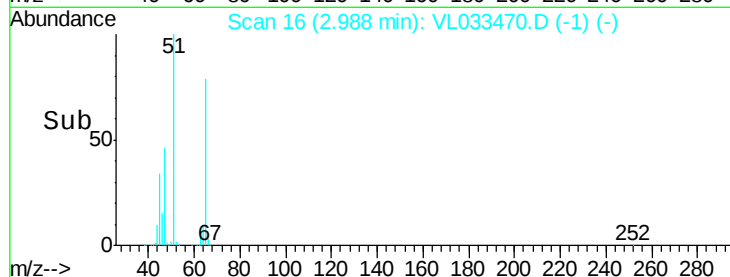
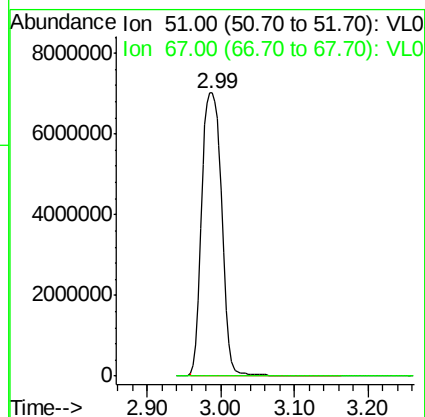
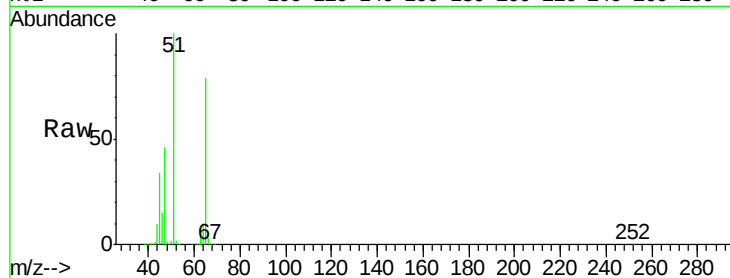
ClientSampleId :

Tot Ion: 51 Resp:13348319

Ion Ratio Lower Upper

51 100

67 0.1 15.7 23.5#



#4

Chloromethane

Concen: 0.731 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033470.D

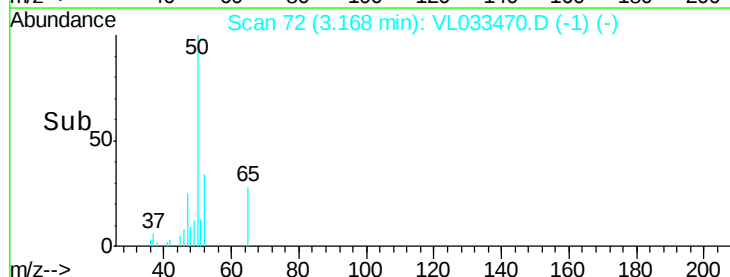
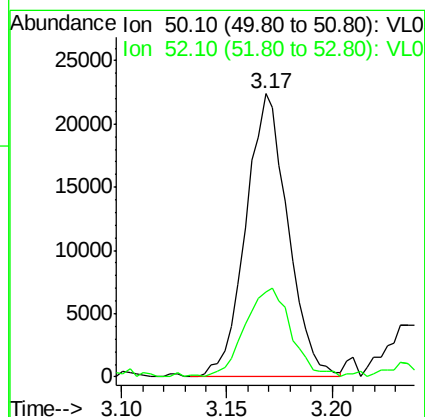
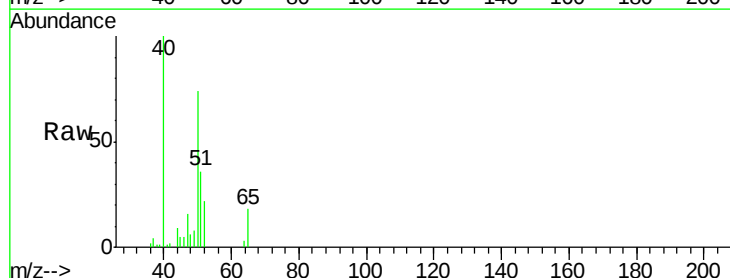
Acq: 27 Mar 2019 16:05

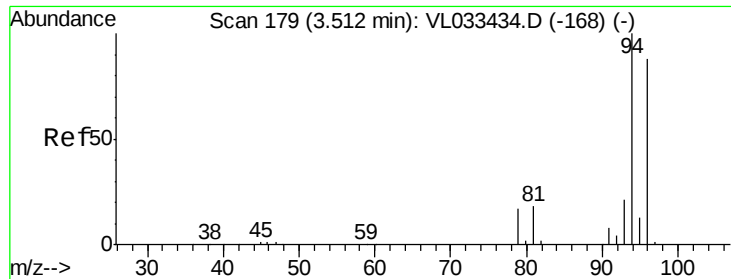
Tgt Ion: 50 Resp: 31042

Ion Ratio Lower Upper

50 100

52 30.1 25.0 37.6

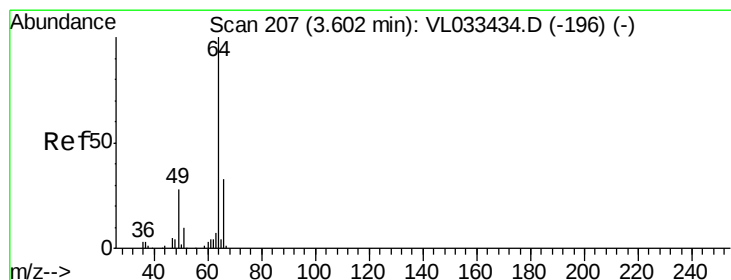
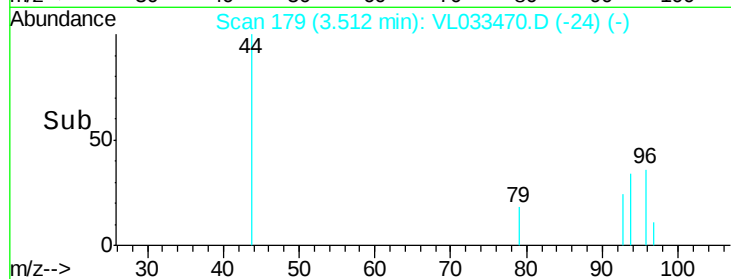
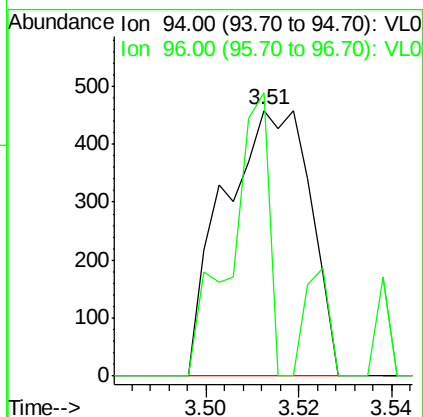
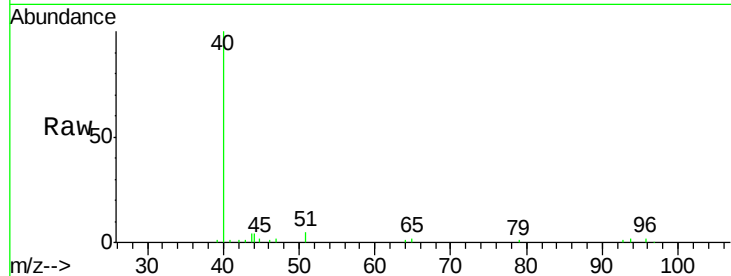




#6
Bromomethane
Concen: 0.022 ppbv
RT: 3.51 min Scan# 179
Delta R.T. -0.00 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

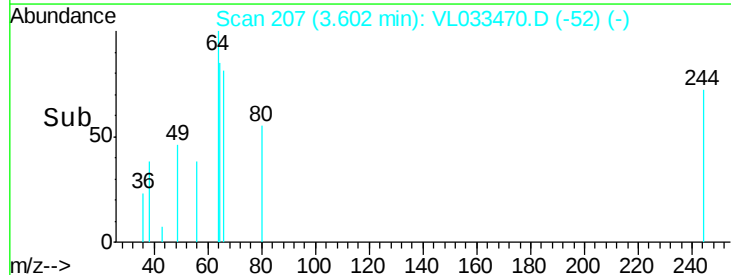
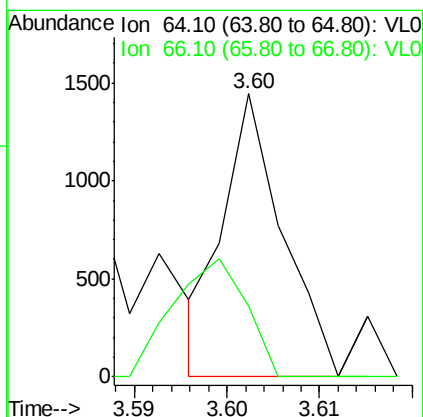
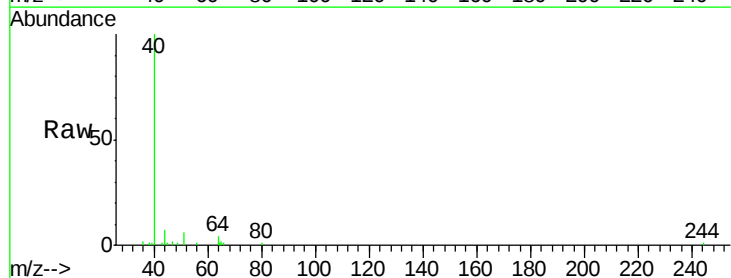
Instrument :
MSVOA_L
ClientSampleId :

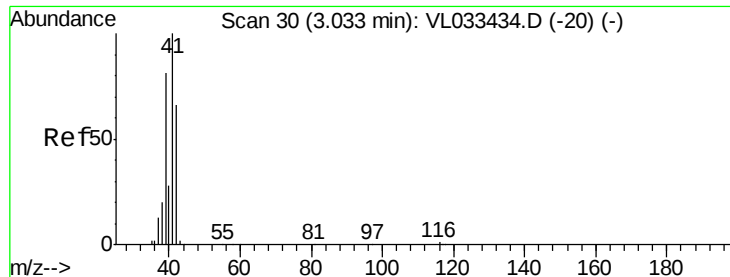
Tot Ion: 94 Resp: 594
Ion Ratio Lower Upper
94 100
96 139.5 70.2 105.2#



#7
Chloroethane
Concen: 0.041 ppbv
RT: 3.60 min Scan# 207
Delta R.T. -0.00 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 64 Resp: 642
Ion Ratio Lower Upper
64 100
66 25.1 26.7 40.1#





#9

Propene

Concen: 6.152 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

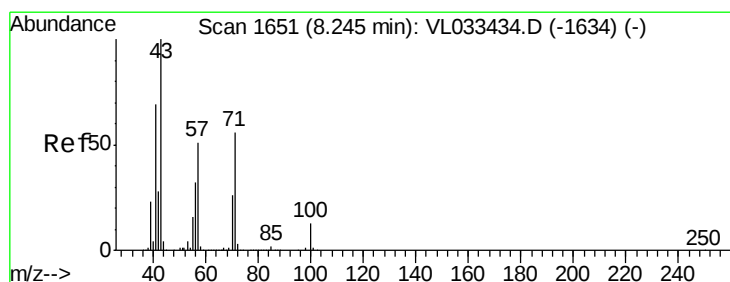
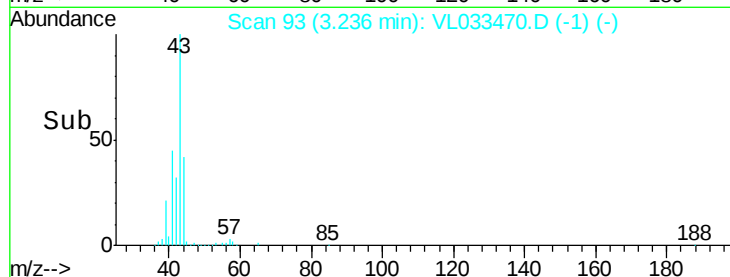
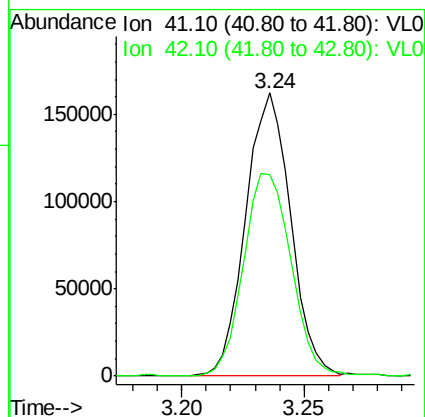
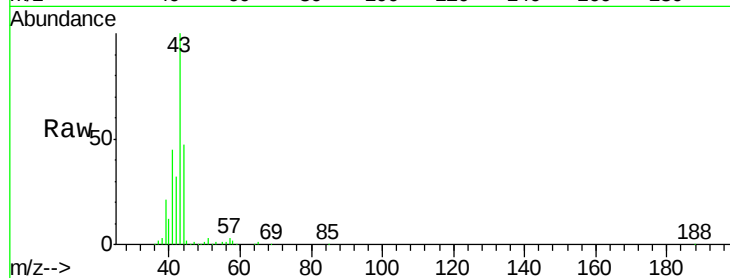
ClientSampleId :

Tot Ion: 41 Resp: 207267

Ion Ratio Lower Upper

41 100

42 76.6 53.9 80.9



#10

Heptane

Concen: 0.158 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.01 min

Lab File: VL033470.D

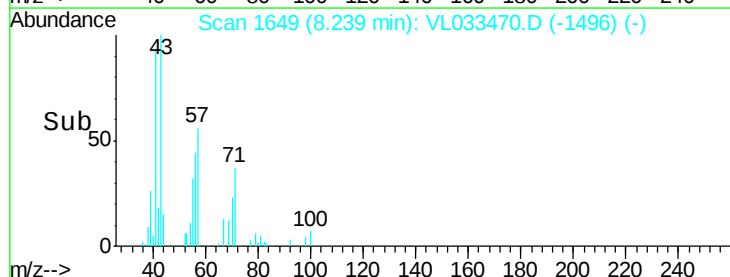
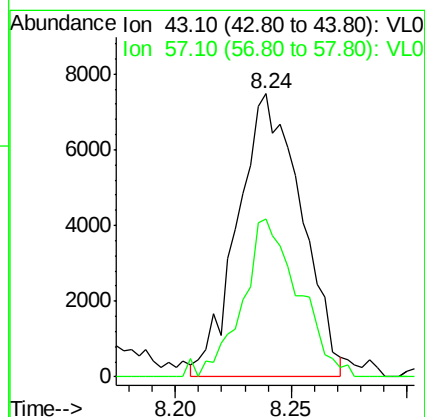
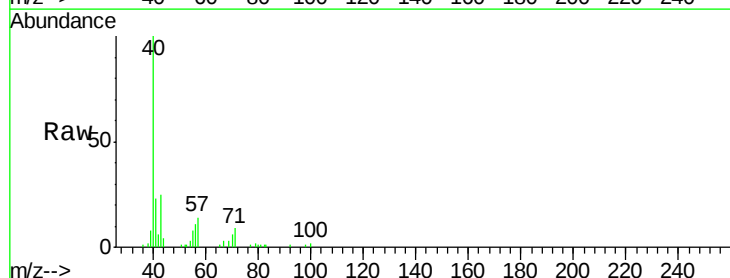
Acq: 27 Mar 2019 16:05

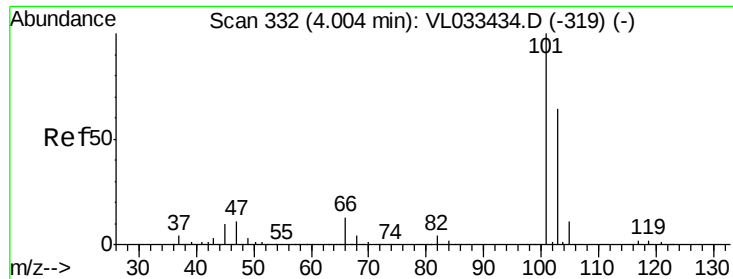
Tgt Ion: 43 Resp: 14240

Ion Ratio Lower Upper

43 100

57 49.7 40.6 60.8

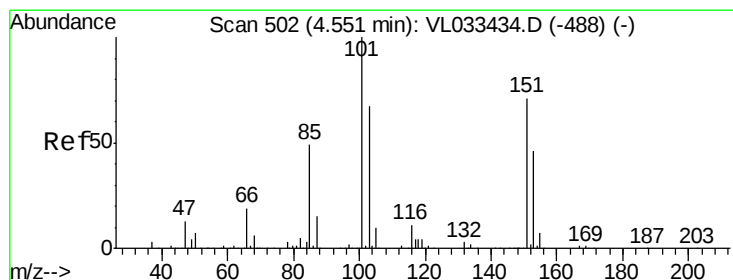
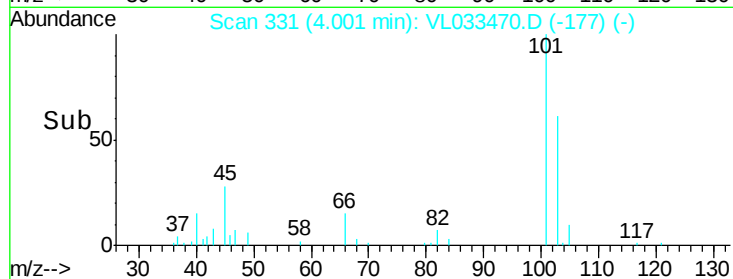
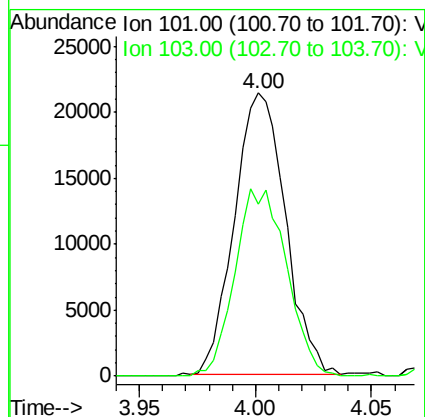
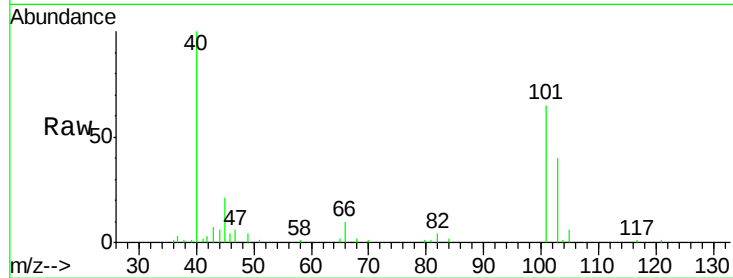




#11
 Trichlorofluoromethane
 Concen: 0.259 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033470.D
 Acq: 27 Mar 2019 16:05

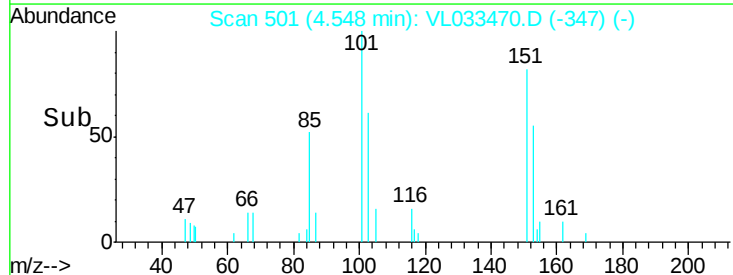
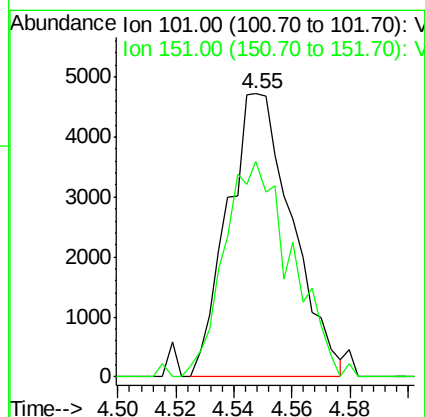
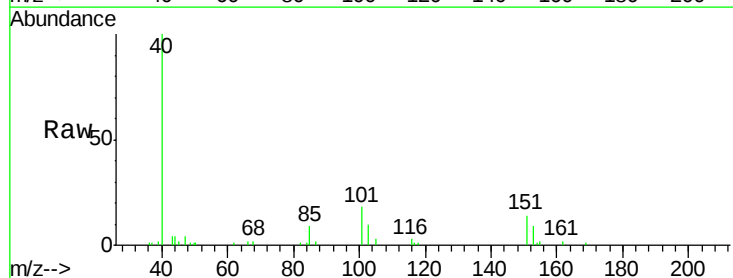
Instrument :
 MSVOA_L
 ClientSampleId :

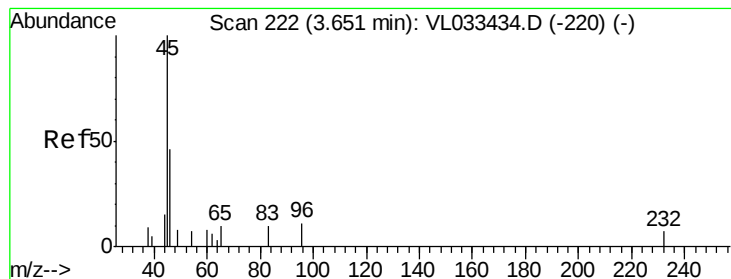
Tot Ion:101 Resp: 32485
 Ion Ratio Lower Upper
 101 100
 103 61.3 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.087 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033470.D
 Acq: 27 Mar 2019 16:05

Tgt Ion:101 Resp: 7310
 Ion Ratio Lower Upper
 101 100
 151 79.8 57.7 86.5





#13

Ethanol

Concen: 386.739 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

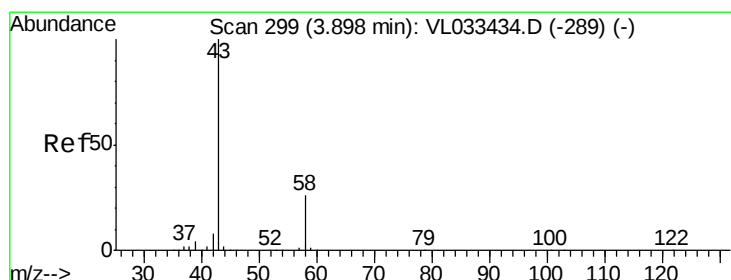
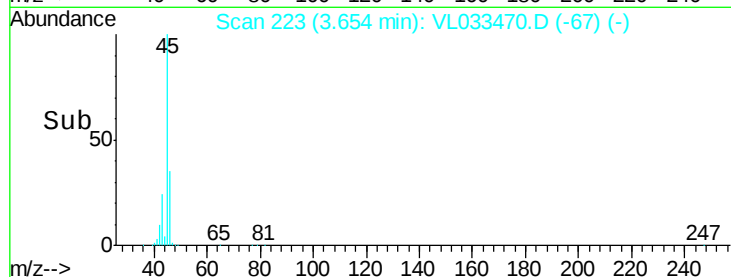
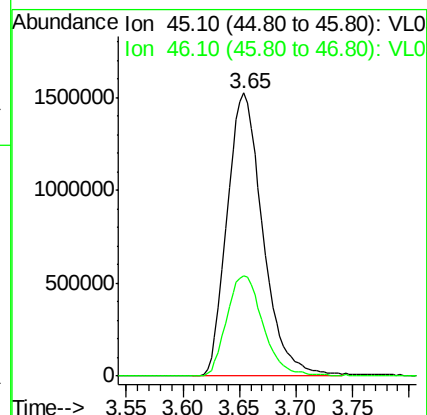
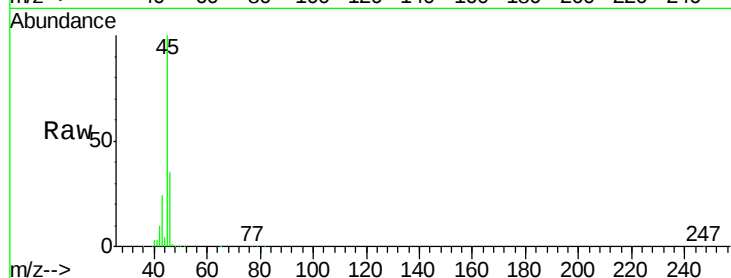
ClientSampleId :

Tot Ion: 45 Resp: 3371475

Ion Ratio Lower Upper

45 100

46 36.5 25.4 101.8



#15

Acetone

Concen: 6.755 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033470.D

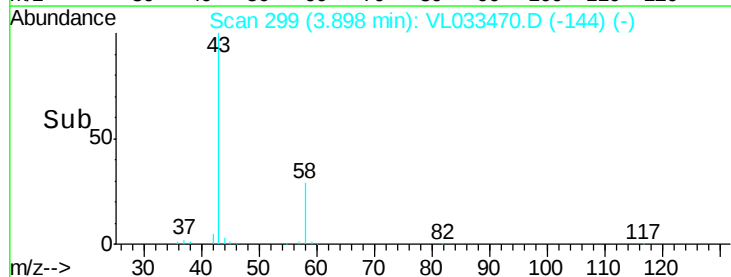
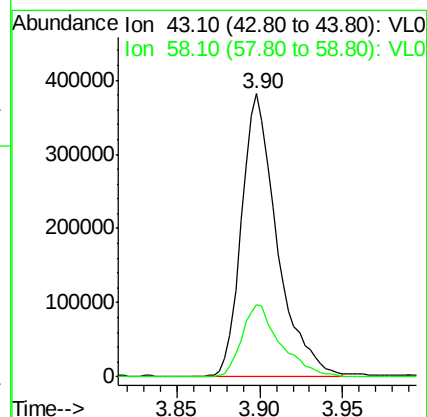
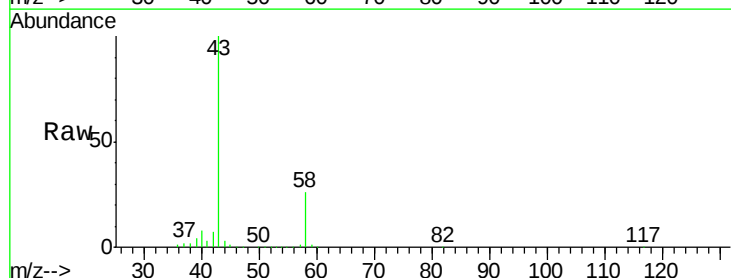
Acq: 27 Mar 2019 16:05

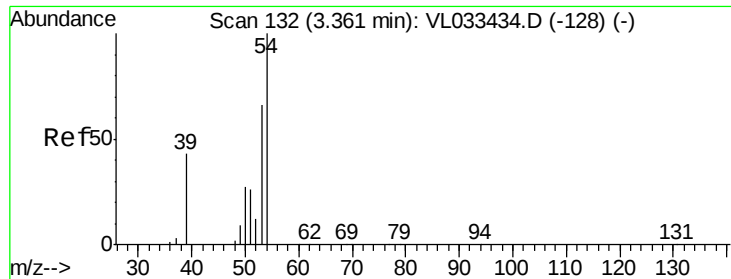
Tgt Ion: 43 Resp: 565940

Ion Ratio Lower Upper

43 100

58 28.0 20.5 30.7

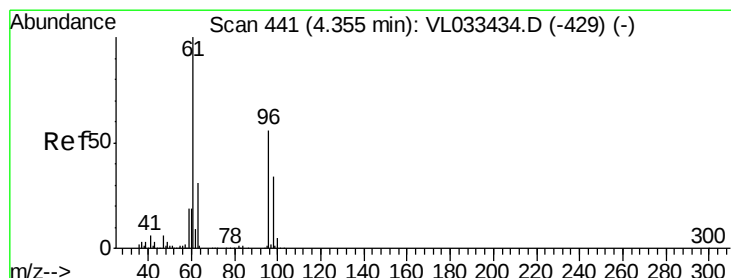
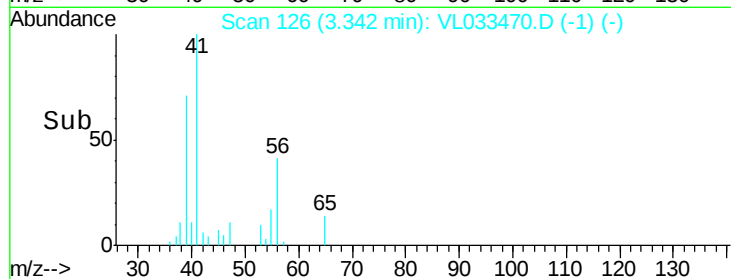
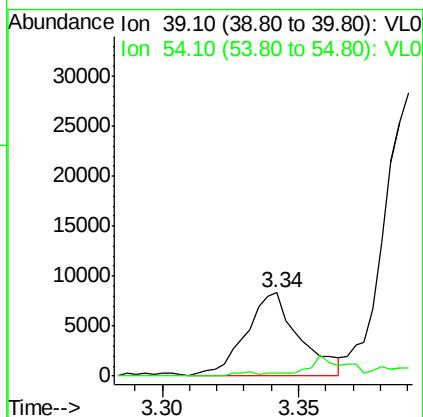
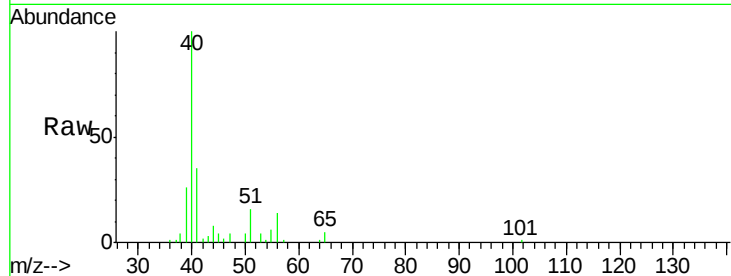




#16
1,3-Butadiene
Concen: 0.344 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.02 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

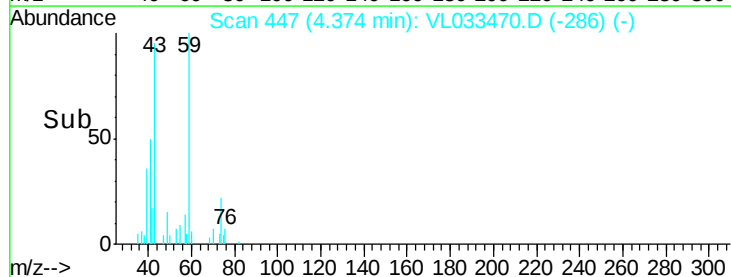
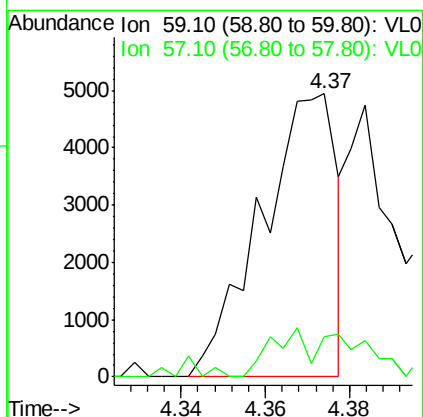
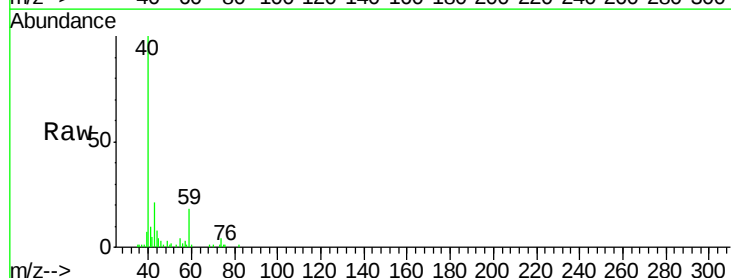
Instrument :
MSVOA_L
ClientSampleId :

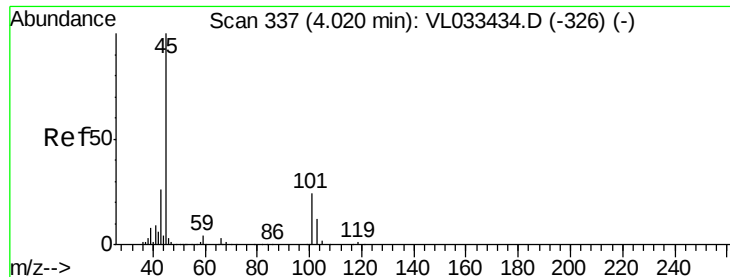
Tot Ion: 39 Resp: 11416
Ion Ratio Lower Upper
39 100
54 18.5 69.4 104.2#



#17
tert-Butyl alcohol
Concen: 0.396 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 59 Resp: 6108
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 9.323 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

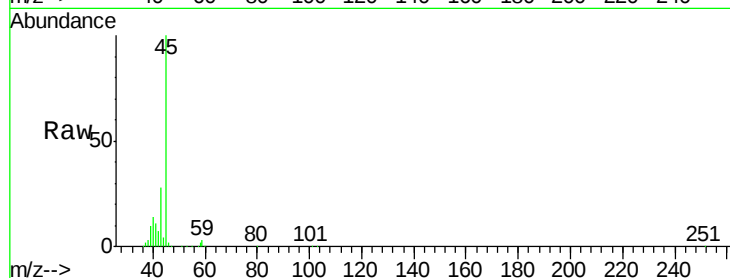
ClientSampleId :

Tot Ion: 45 Resp: 494069

Ion Ratio Lower Upper

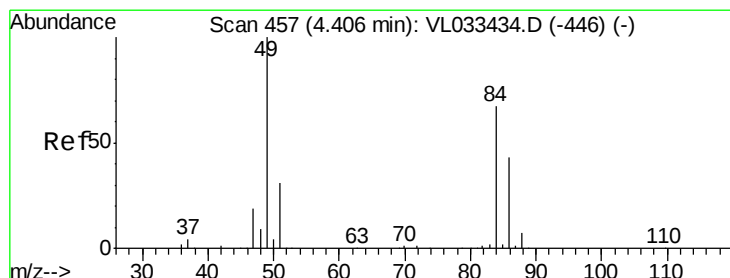
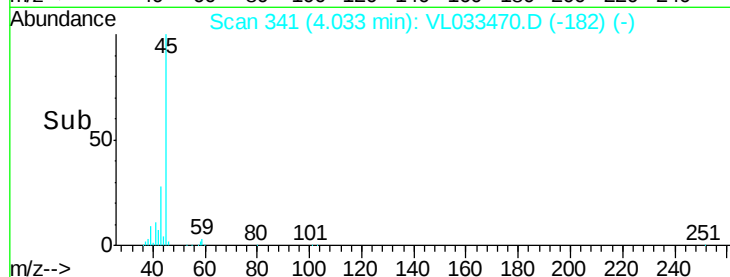
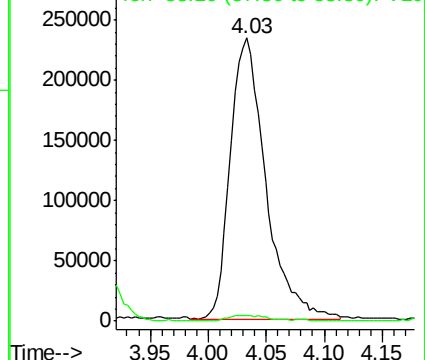
45 100

58 2.5 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.961 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Tgt Ion: 84 Resp: 34188

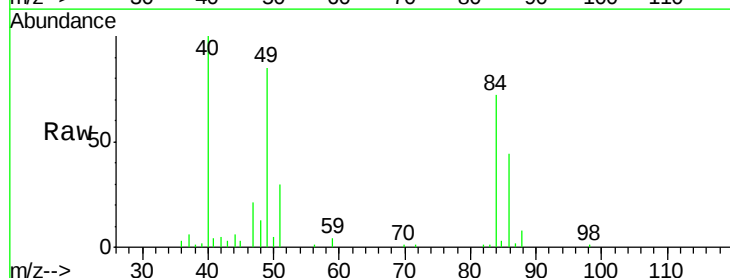
Ion Ratio Lower Upper

84 100

49 115.8 120.0 180.0#

51 41.5 36.7 55.1

86 61.8 51.9 77.9

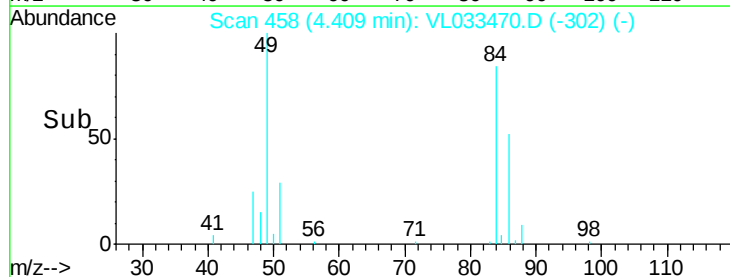
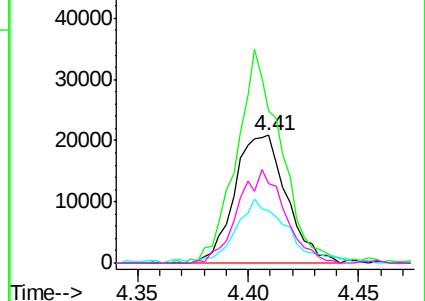


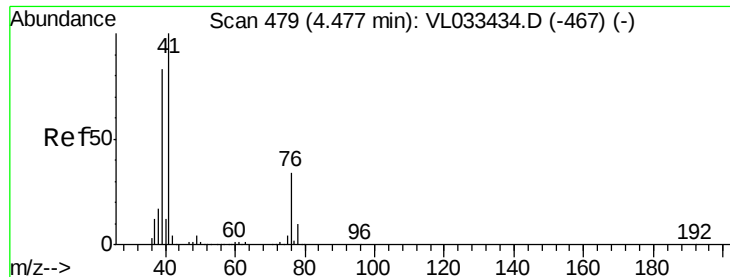
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

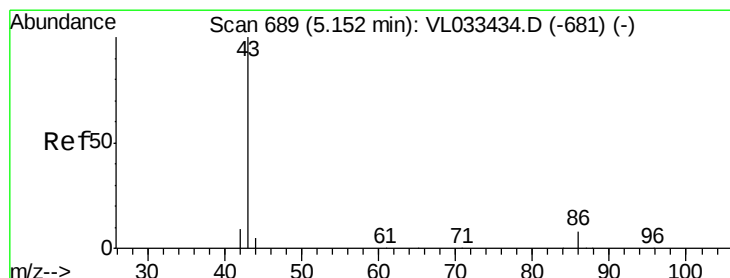
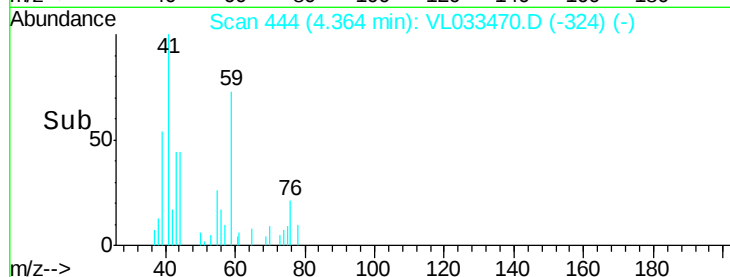
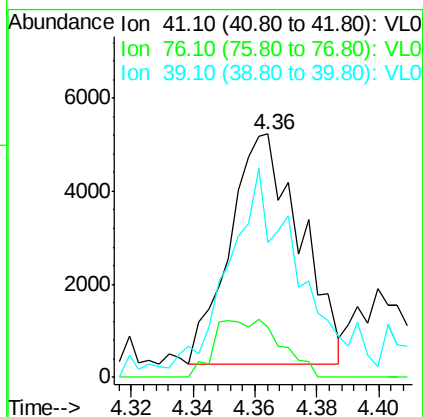
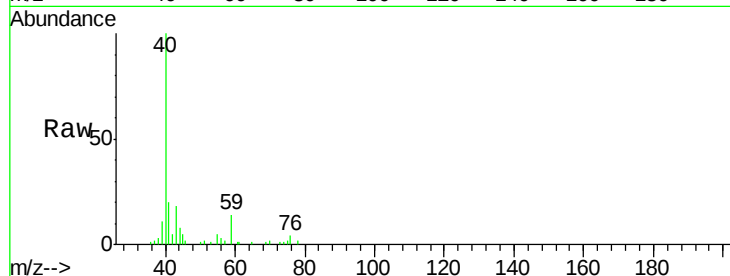




#21
Allvl Chloride
Concen: 0.149 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.11 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

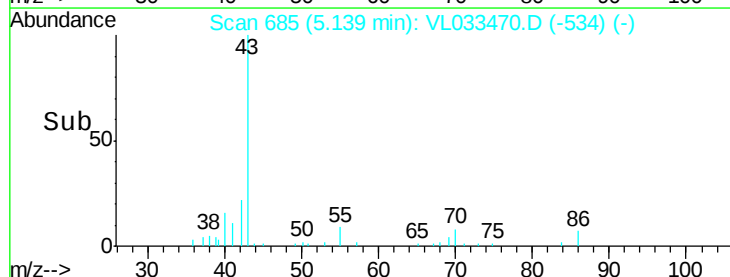
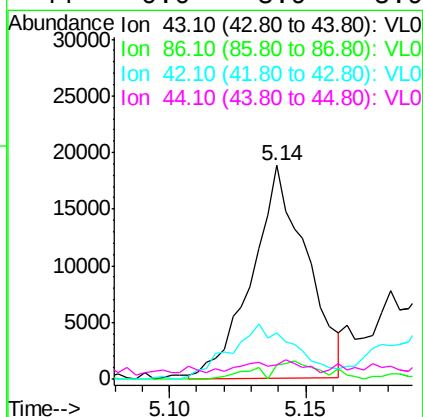
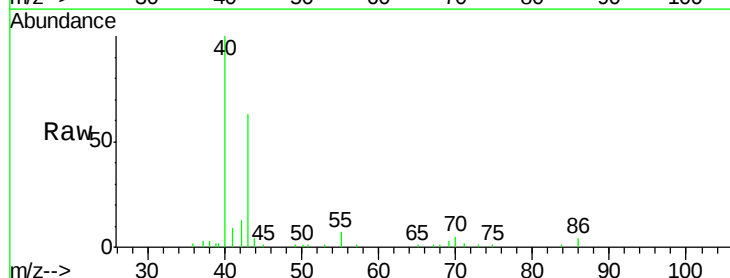
Instrument :
MSVOA_L
ClientSampleId :

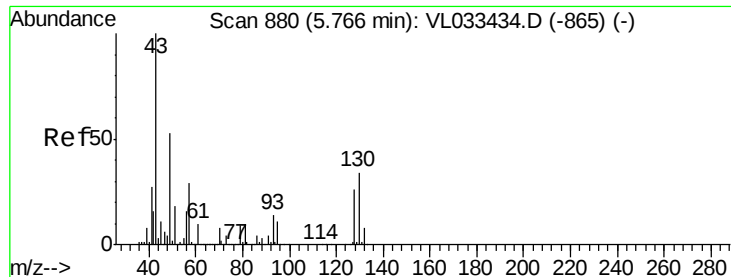
Tot Ion: 41 Resp: 7868
Ion Ratio Lower Upper
41 100
76 23.5 25.4 38.2#
39 81.2 65.3 97.9



#23
Vinyl Acetate
Concen: 0.219 ppbv
RT: 5.14 min Scan# 685
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 43 Resp: 26083
Ion Ratio Lower Upper
43 100
86 7.3 5.6 8.4
42 21.9 8.0 12.0#
44 0.0 3.9 5.9#





#25

Ethyl Acetate

Concen: 0.451 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 70182

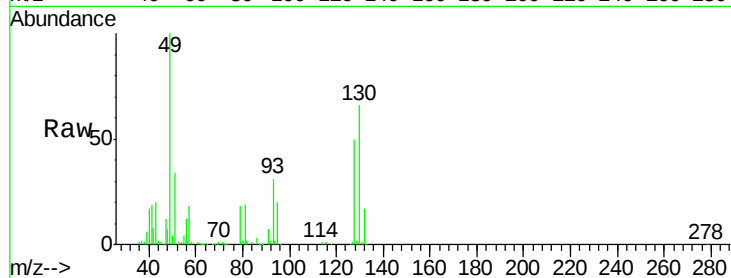
Ion Ratio Lower Upper

43 100

45 6.8 7.8 11.6#

61 3.6 7.3 10.9#

70 4.1 5.6 8.4#

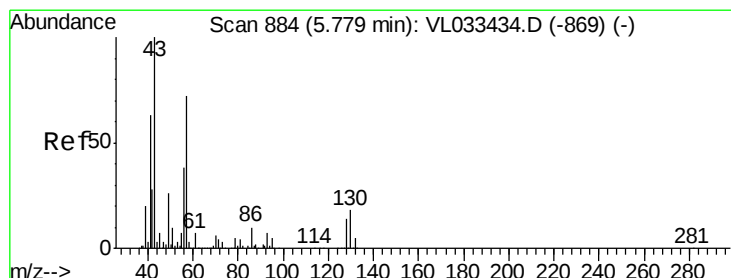
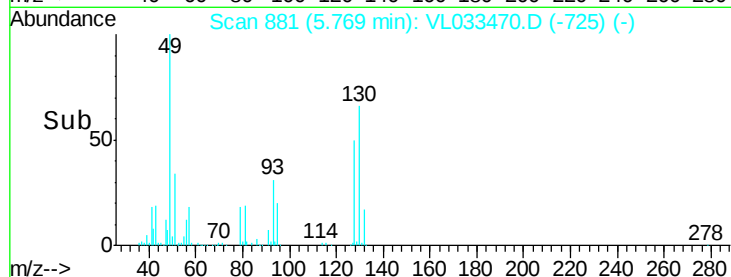
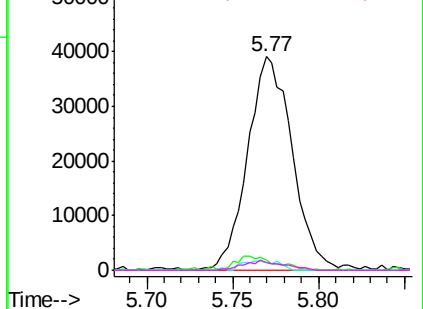


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.989 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Tgt Ion: 57 Resp: 68349

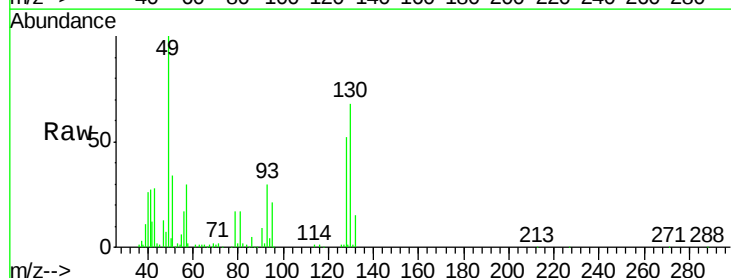
Ion Ratio Lower Upper

57 100

41 98.5 70.7 106.1

43 104.4 182.6 274.0#

56 56.2 42.0 63.0

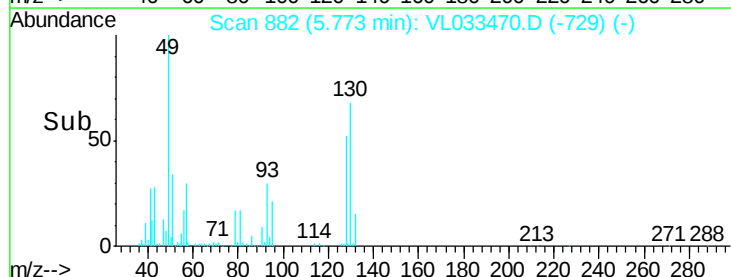
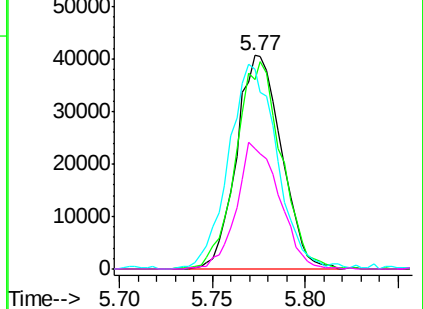


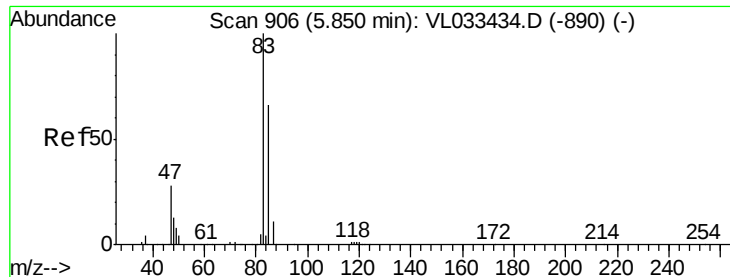
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.061 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

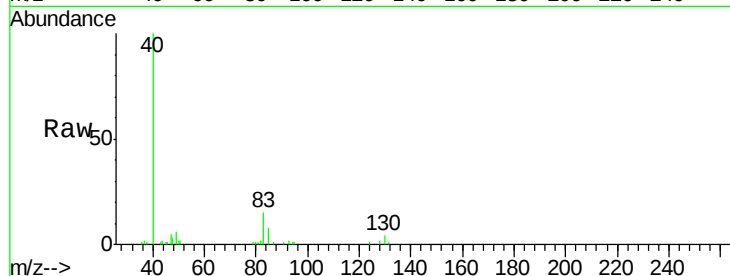
ClientSampled :

Tot Ion: 83 Resp: 7267

Ion Ratio Lower Upper

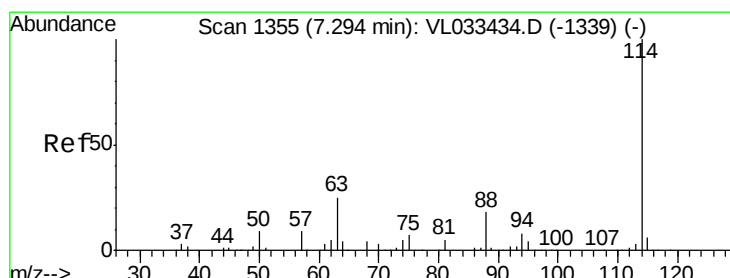
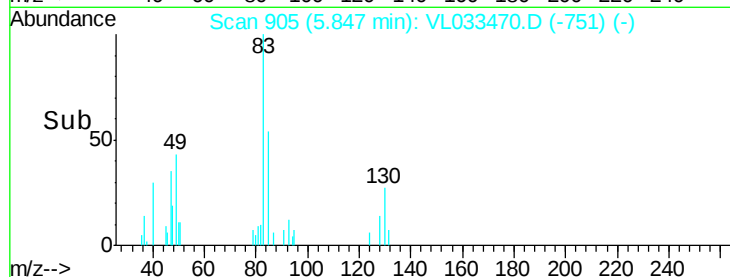
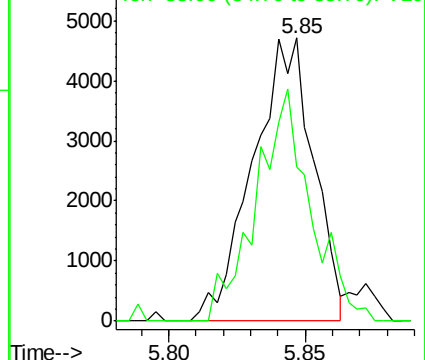
83 100

85 54.4 52.6 79.0



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: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

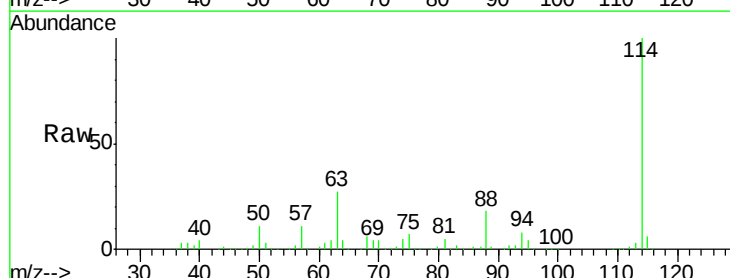
Tgt Ion: 114 Resp: 1607725

Ion Ratio Lower Upper

114 100

63 26.7 21.5 32.3

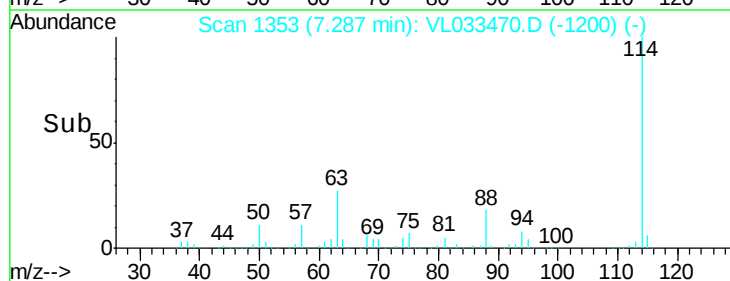
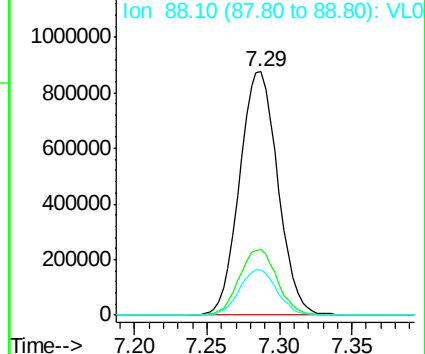
88 18.3 14.5 21.7

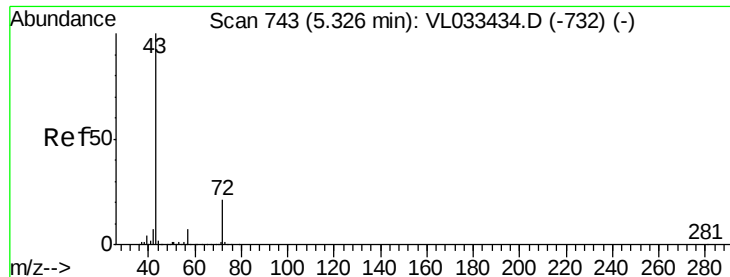


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.250 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

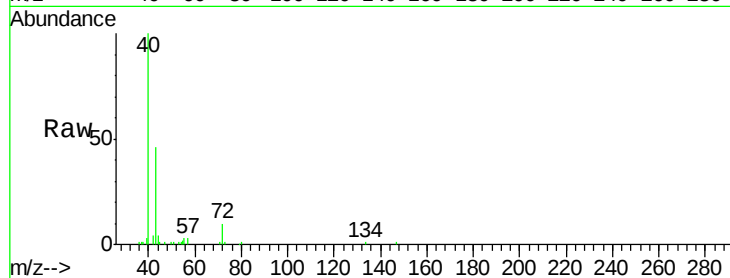
ClientSampleId :

Tot Ion: 43 Resp: 24166

Ion Ratio Lower Upper

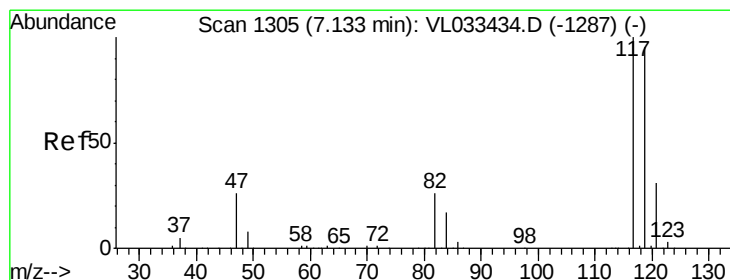
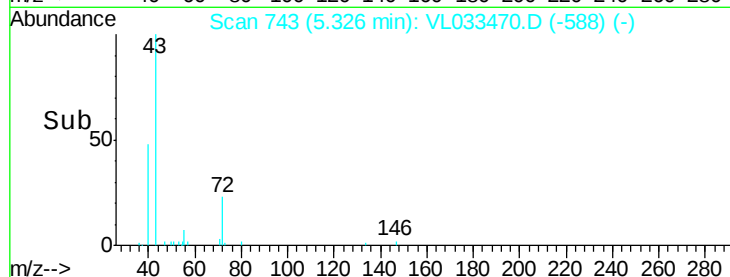
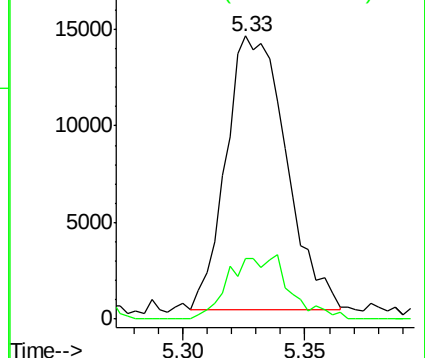
43 100

72 23.3 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.081 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

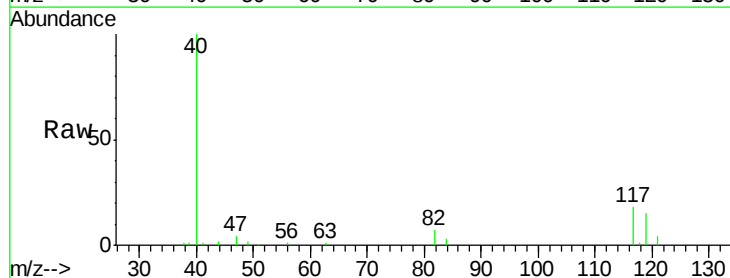
Tgt Ion: 117 Resp: 9175

Ion Ratio Lower Upper

117 100

119 75.1 75.8 113.8#

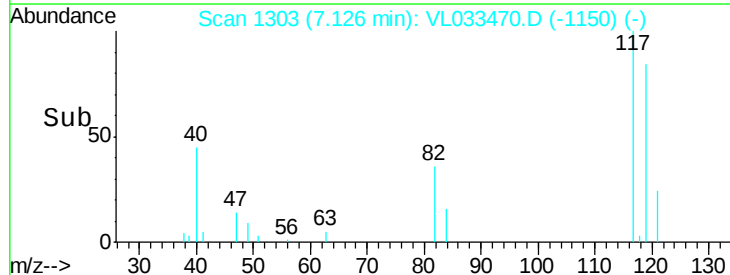
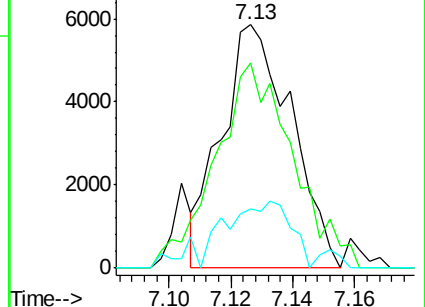
121 19.2 24.7 37.1#

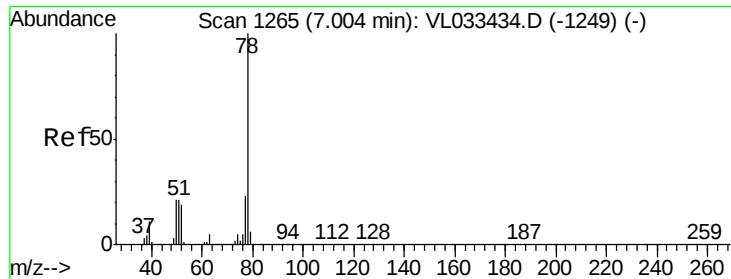


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

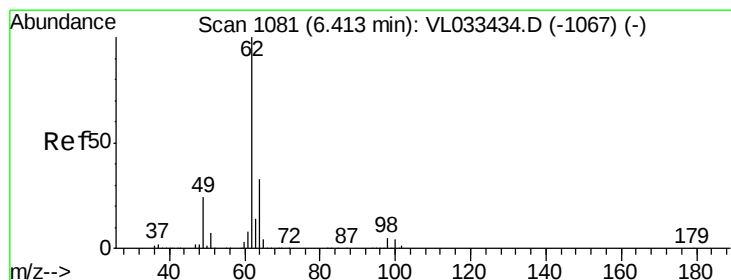
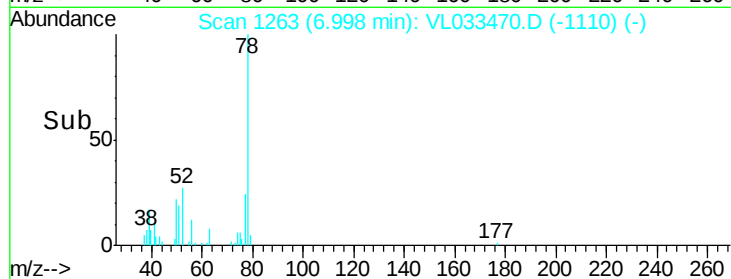
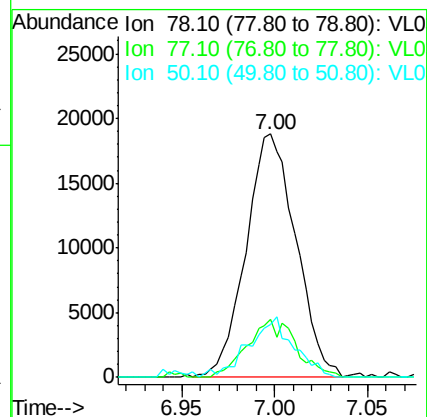
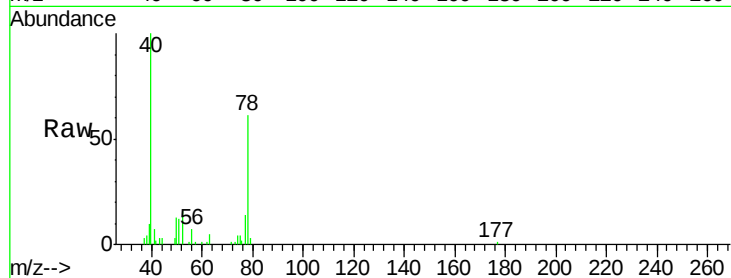




#36
Benzene
Concen: 0.261 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

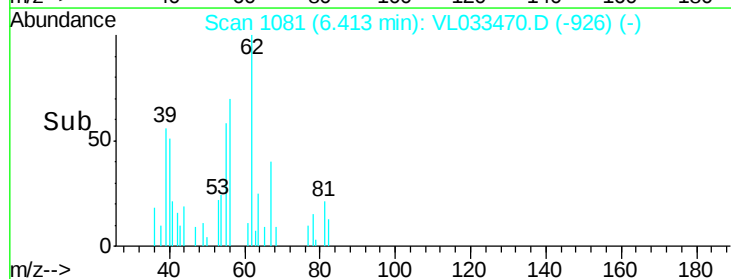
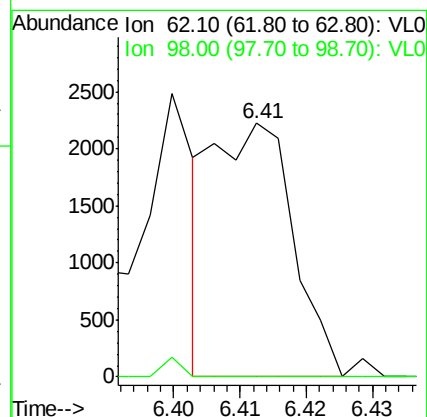
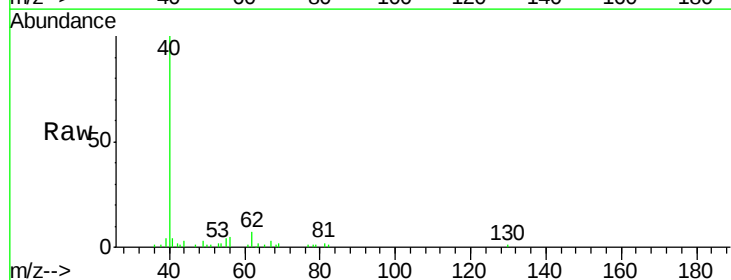
Instrument :
MSVOA_L
ClientSampleId :

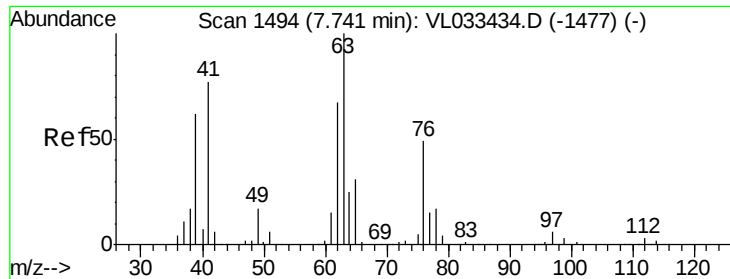
Tot Ion: 78 Resp: 35213
Ion Ratio Lower Upper
78 100
77 23.7 18.1 27.1
50 22.0 16.7 25.1



#37
1,2-Dichloroethane
Concen: 0.021 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. -0.00 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 62 Resp: 1856
Ion Ratio Lower Upper
62 100
98 0.0 4.4 6.6#





#39

1,2-Dichloropropane

Concen: 8.047 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

ClientSampleId :

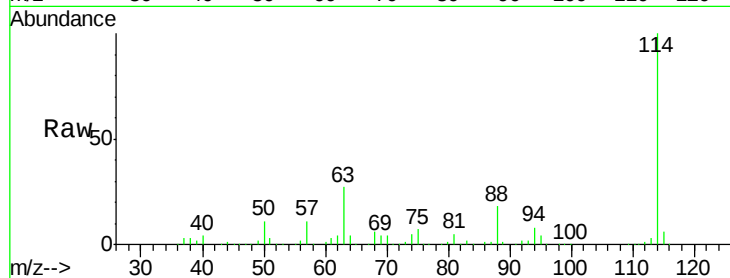
Tot Ion: 63 Resp: 425220

Ion Ratio Lower Upper

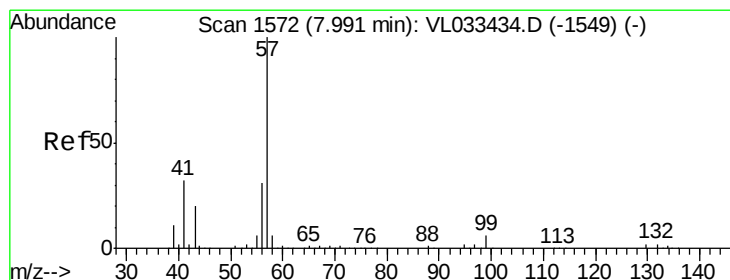
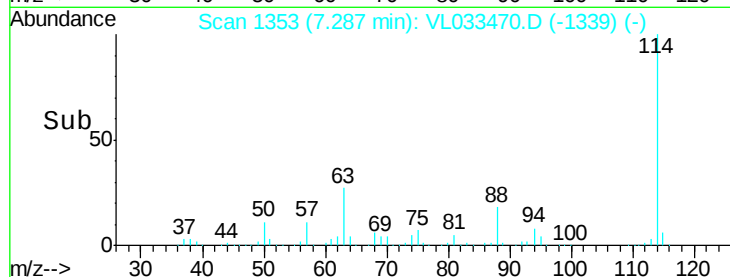
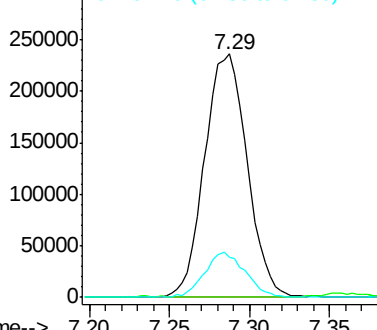
63 100

41 0.0 61.2 91.8#

62 16.2 54.0 81.0#



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: 0.040 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

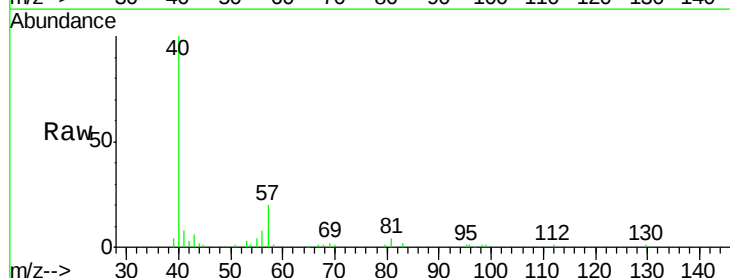
Tgt Ion: 57 Resp: 9430

Ion Ratio Lower Upper

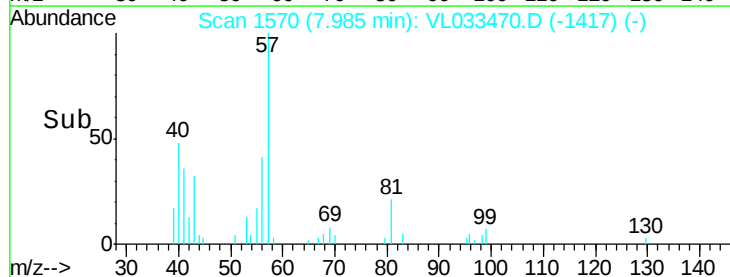
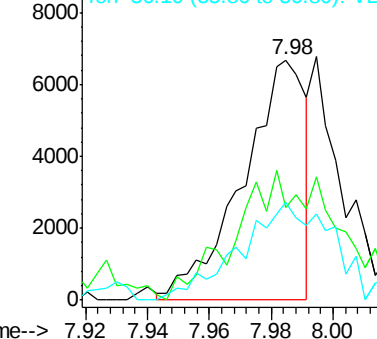
57 100

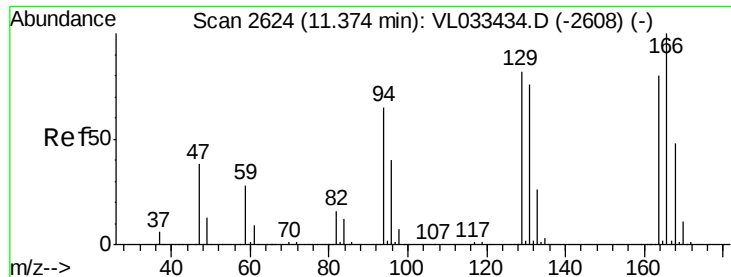
41 90.3 26.0 39.0#

56 69.1 24.6 37.0#



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

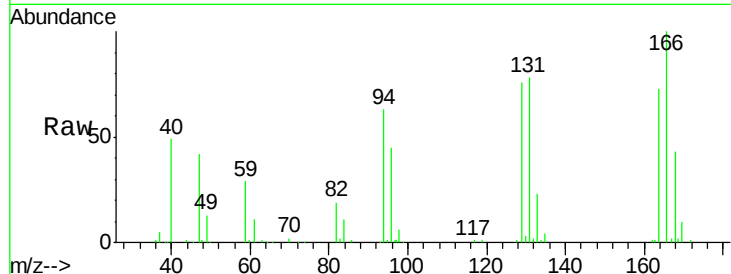




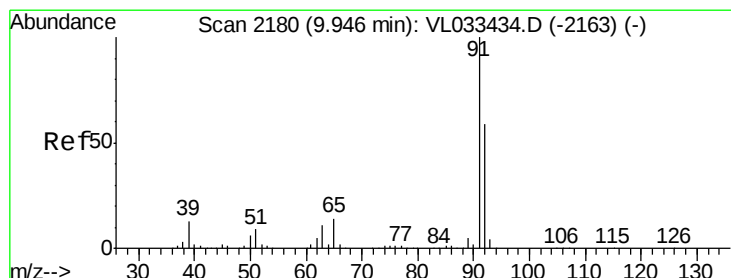
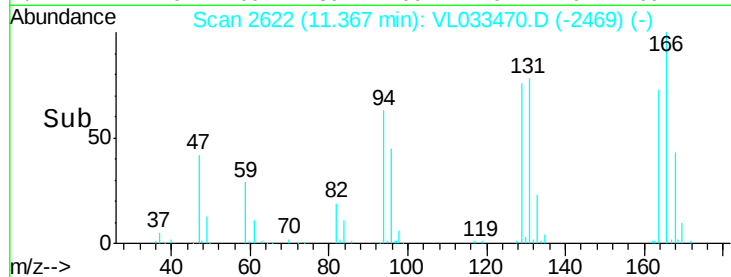
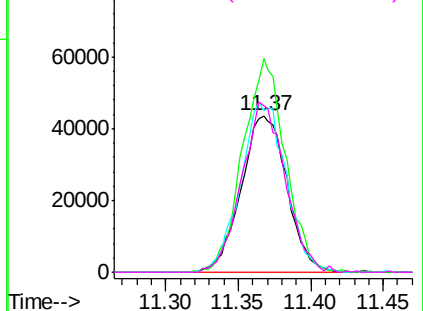
#52
Tetrachloroethene
Concen: 1.883 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:164 Resp: 95835
Ion Ratio Lower Upper
164 100
166 136.4 99.5 149.3
129 103.2 81.4 122.2
131 106.1 75.6 113.4

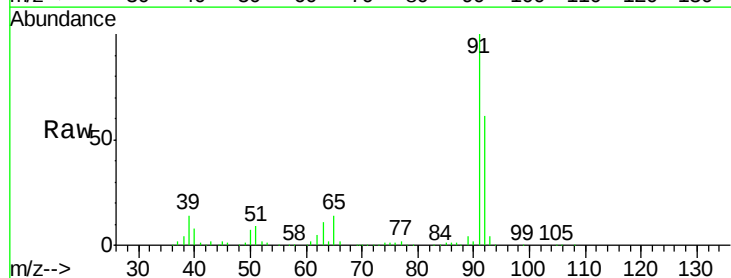


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V

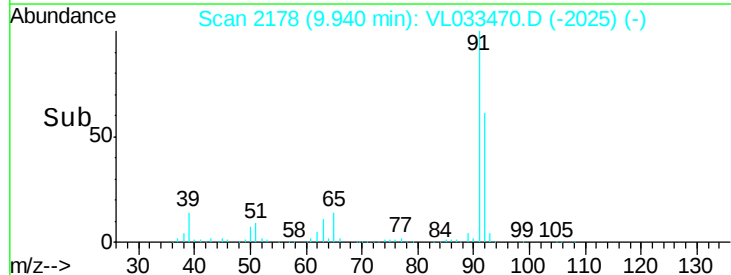
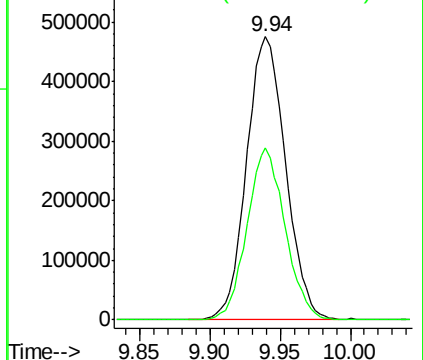


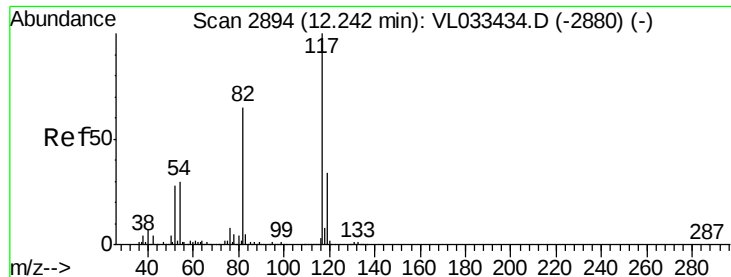
#53
Toluene
Concen: 5.883 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 91 Resp: 922144
Ion Ratio Lower Upper
91 100
92 59.3 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

ClientSampleId :

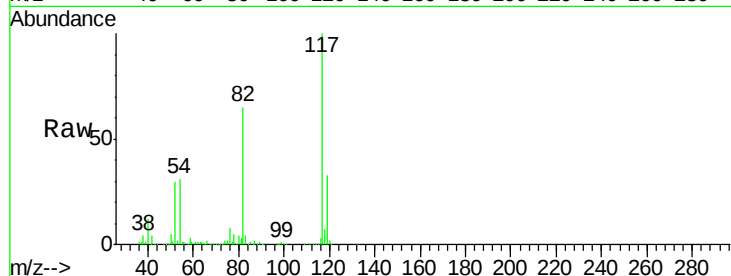
Tot Ion:117 Resp: 1579728

Ion Ratio Lower Upper

117 100

82 67.9 51.5 77.3

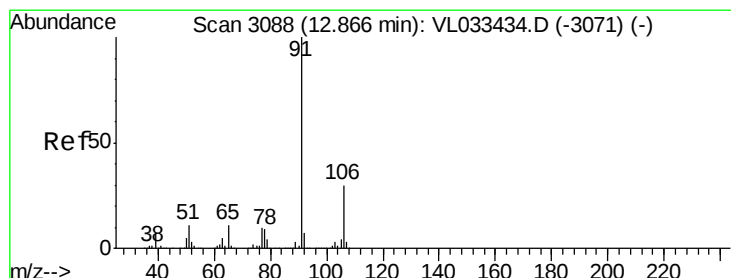
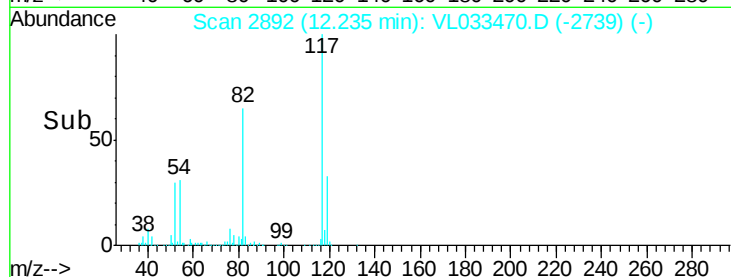
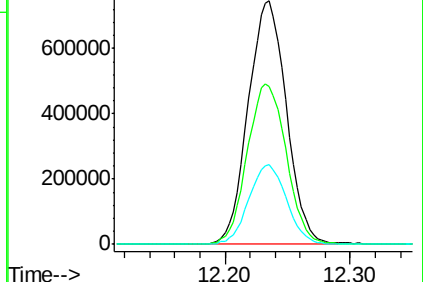
119 32.6 25.5 38.3



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.054 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033470.D

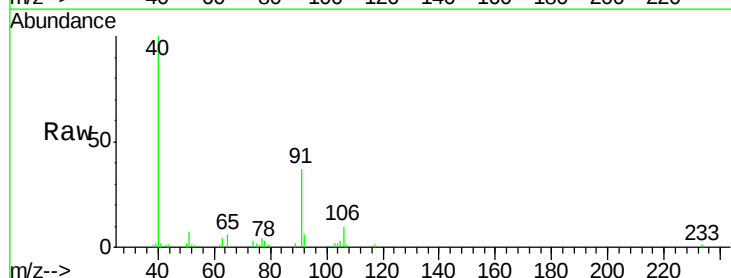
Acq: 27 Mar 2019 16:05

Tgt Ion: 91 Resp: 11299

Ion Ratio Lower Upper

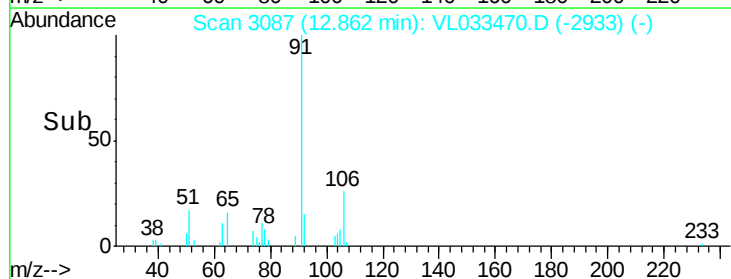
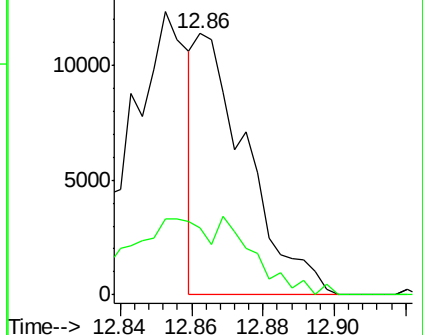
91 100

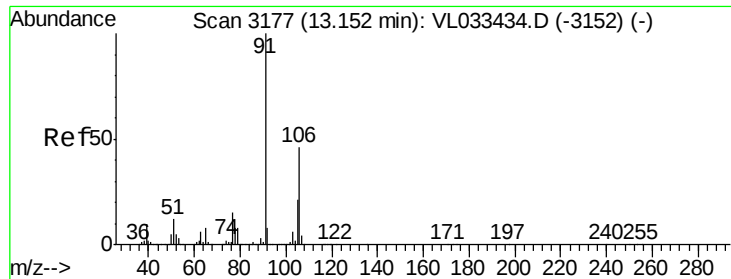
106 25.6 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

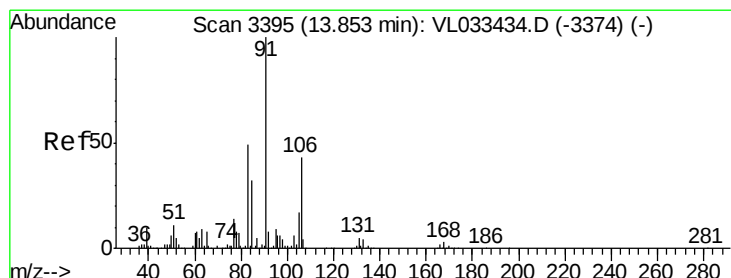
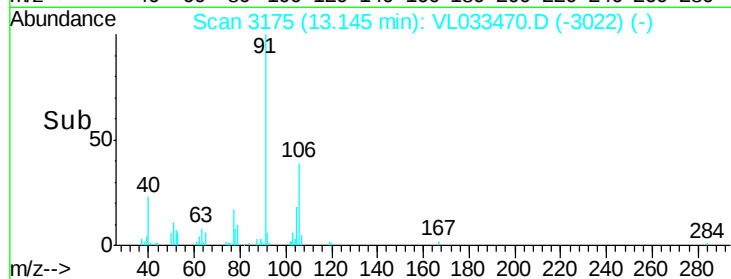
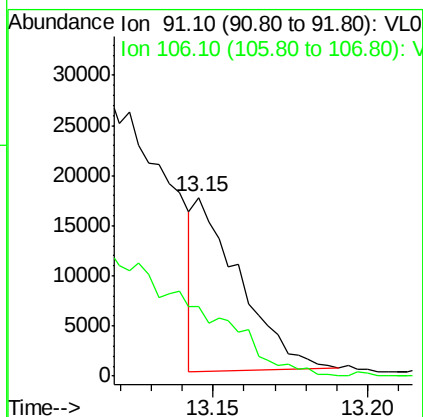
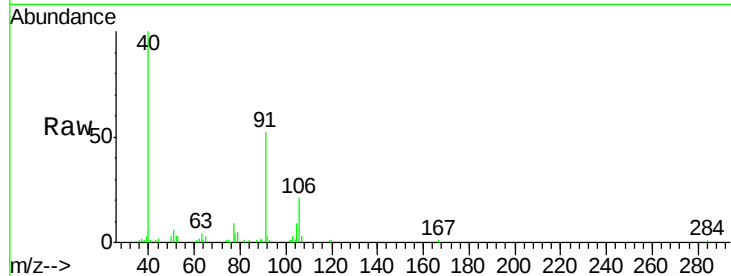




#59
m/p-Xylene
Concen: 0.093 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

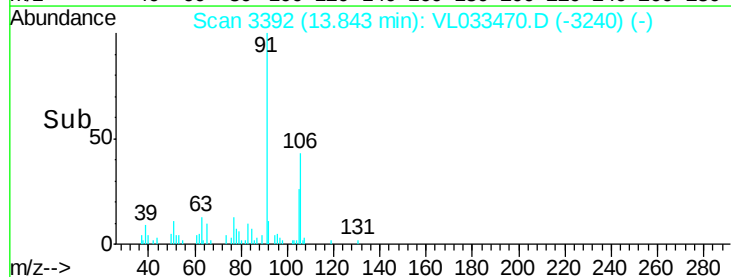
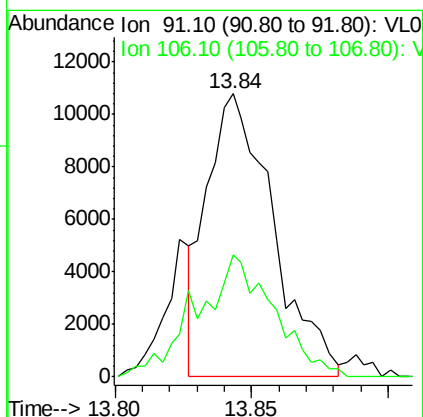
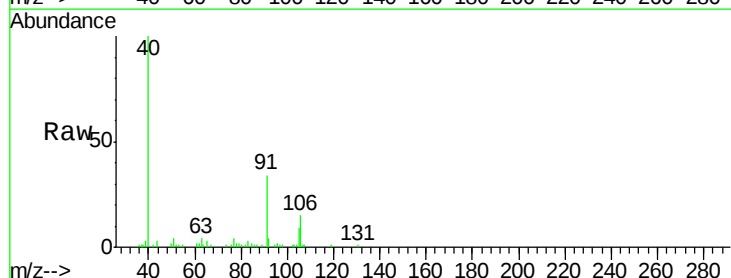
Instrument :
MSVOA_L
ClientSampleId :

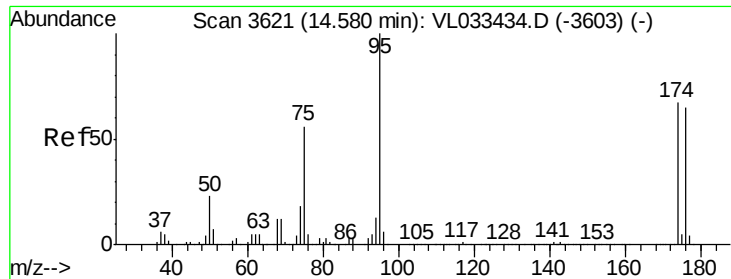
Tot Ion: 91 Resp: 17578
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 0.100 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 91 Resp: 18166
Ion Ratio Lower Upper
91 100
106 50.5 21.4 64.3

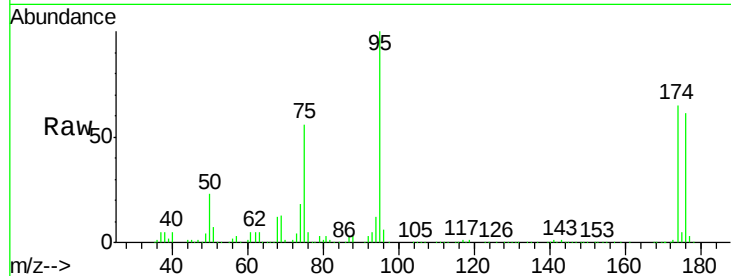




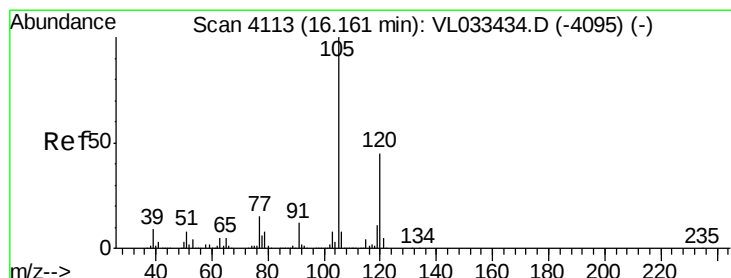
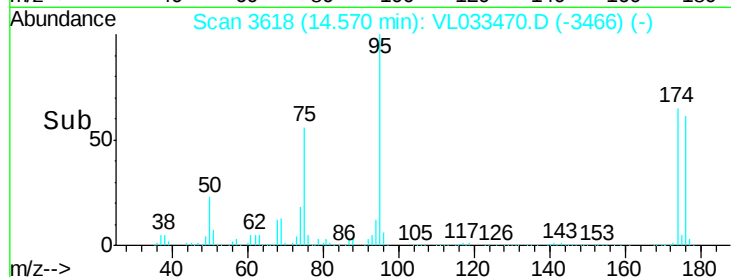
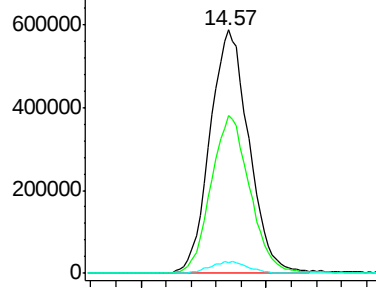
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.232 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033470.D
 Acq: 27 Mar 2019 16:05

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 1267231
 Ion Ratio Lower Upper
 95 100
 174 65.2 52.9 79.3
 175 4.7 3.8 5.6

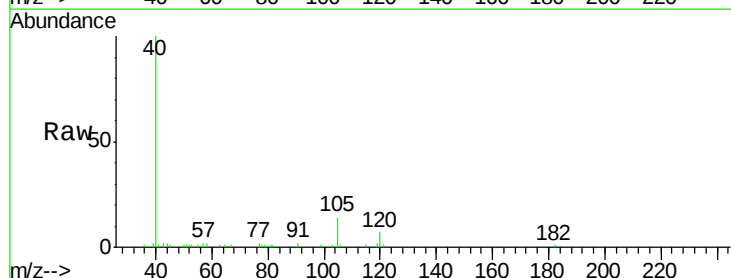


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

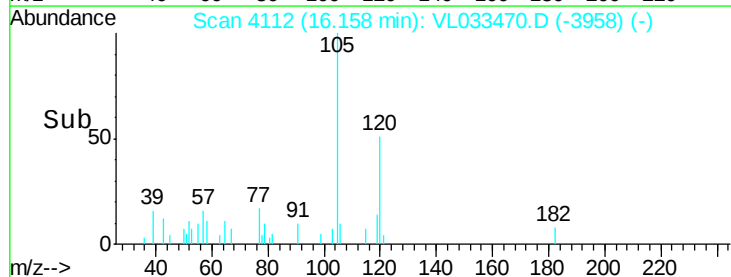
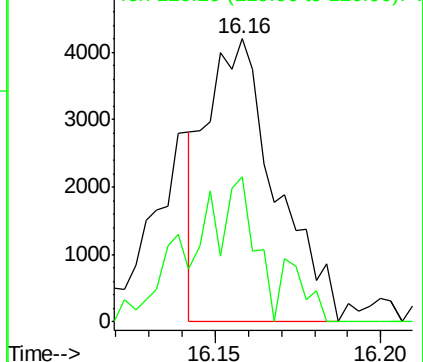


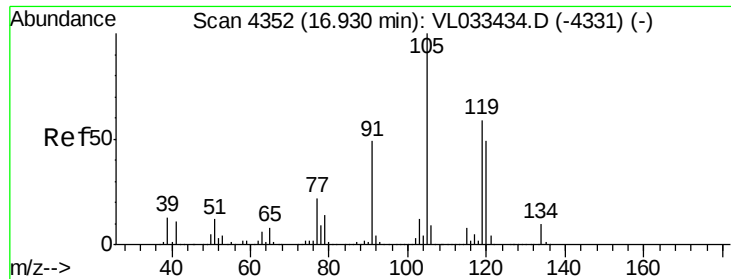
#73
 1,3,5-Trimethylbenzene
 Concen: 0.031 ppbv
 RT: 16.16 min Scan# 4112
 Delta R.T. -0.00 min
 Lab File: VL033470.D
 Acq: 27 Mar 2019 16:05

Tgt Ion: 105 Resp: 6123
 Ion Ratio Lower Upper
 105 100
 120 46.6 35.7 53.5



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.044 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033470.D

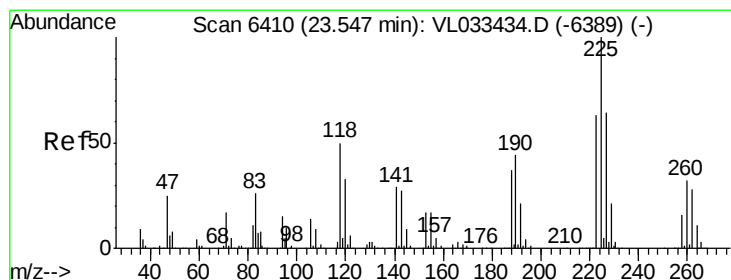
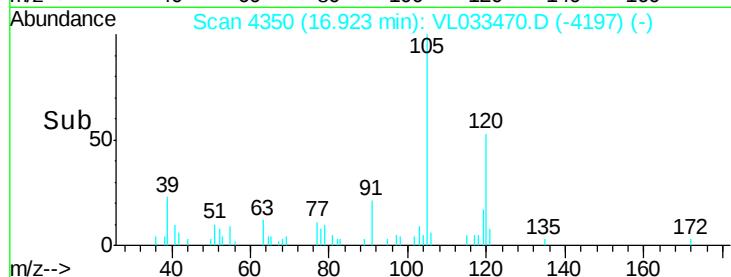
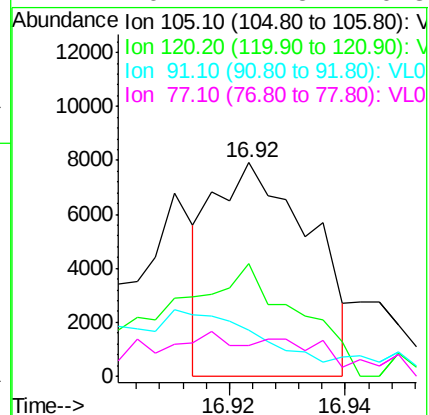
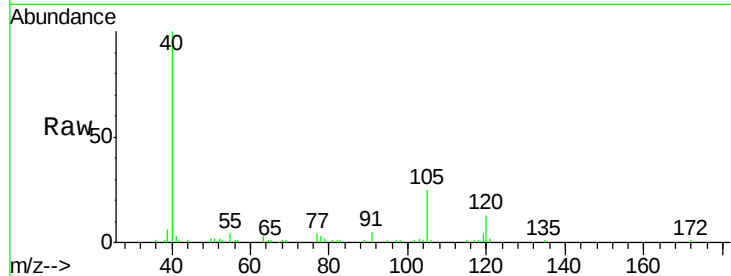
Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	9269
Ion	Ratio	Lower	Upper
105	100		
120	70.1	39.0	58.6#
91	20.2	40.0	60.0#
77	16.2	17.5	26.3#



#78

Hexachloro-1,3-Butadiene

Concen: 0.064 ppbv

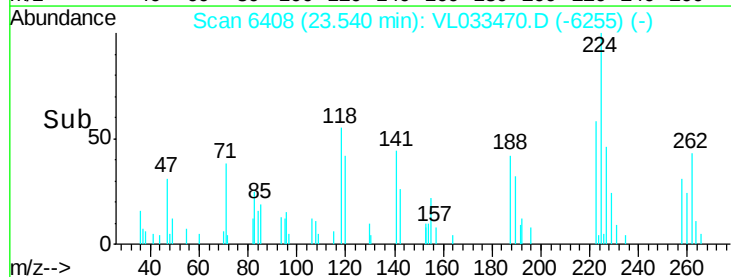
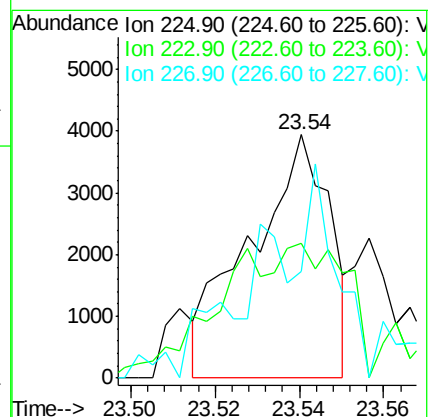
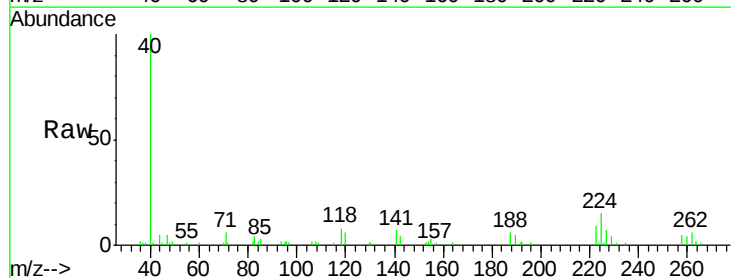
RT: 23.54 min Scan# 6408

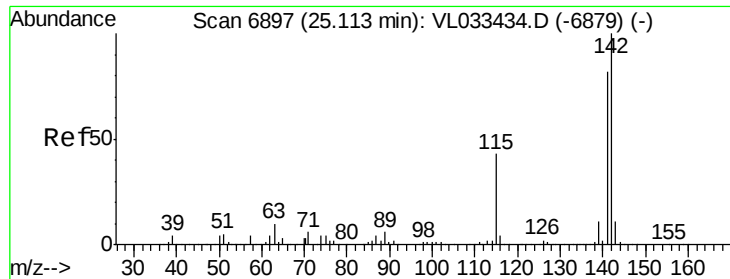
Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Tgt Ion:	225	Resp:	5184
Ion	Ratio	Lower	Upper
225	100		
223	96.9	50.0	75.0#
227	99.6	51.1	76.7#

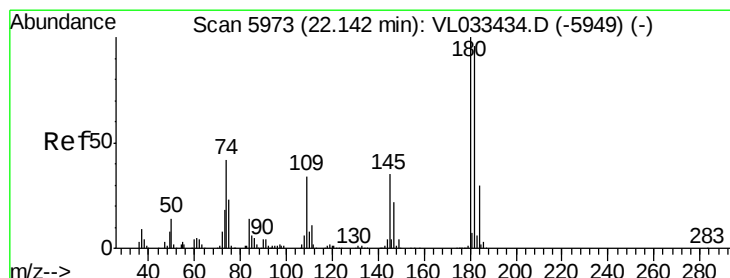
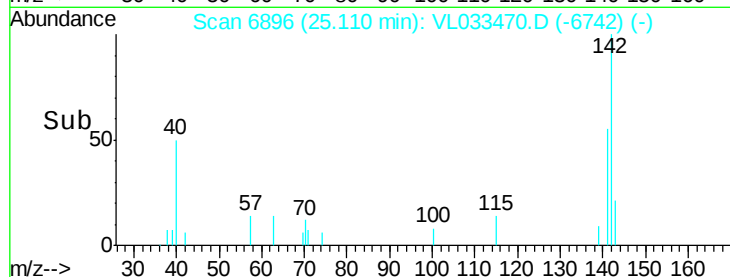
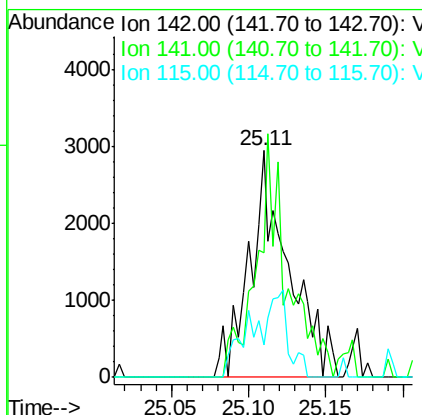
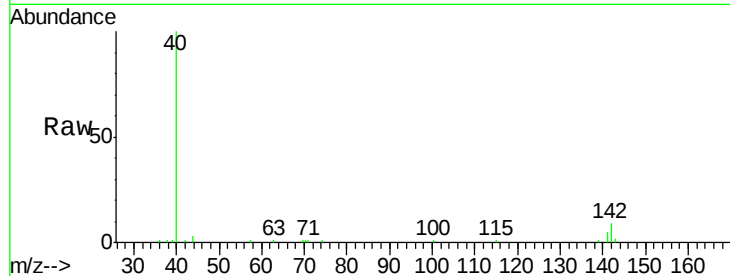




#80
Naphthalene, 2-methyl-
Concen: 0.086 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. -0.00 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.8	66.6	99.8
115	34.4	34.4	51.6



#81
1,2,4-Trichlorobenzene
Concen: 0.029 ppbv
RT: 22.13 min Scan# 5968
Delta R.T. -0.02 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.0	115.4#
184	68.6	24.6	36.8#

