

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034038.D
 Acq On : 17 Jul 2019 19:13
 Operator : SY/AP
 Sample : K3804-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 18 04:39:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1037734	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2812924	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.20	117	2801951	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.53	95	2137475	8.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.13	85	6996333	32.670	ppbv 95
3) Chlorodifluoromethane	2.97	51	335912	2.621	ppbv # 74
4) Chloromethane	3.13	50	1025039	13.911	ppbv # 42
5) Vinyl Chloride	3.26	62	21610	0.261	ppbv # 88
7) Chloroethane	3.13	64	5152117	173.983	ppbv 97
8) Dichlorotetrafluoroethane	3.13	85	6996333	33.508	ppbv # 15
9) Propene	3.01	41	2941479	62.398	ppbv 94
10) Heptane	8.20	43	84803	0.718	ppbv 88
11) Trichlorofluoromethane	3.98	101	706699	2.935	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.53	101	5542	0.033	ppbv # 11
13) Ethanol	3.67	45	23033211	1572.796	ppbv 97
15) Acetone	3.87	43	13041541	74.748	ppbv # 87
16) 1,3-Butadiene	3.32	39	2218531	36.010	ppbv # 26
17) tert-Butyl alcohol	4.37	59	36921	0.265	ppbv # 73
19) Isopropyl Alcohol	4.06	45	2390256	20.409	ppbv # 1
20) Methylene Chloride	4.39	84	56880	0.747	ppbv # 89
21) Allyl Chloride	4.44	41	18791	0.173	ppbv # 19
23) Vinyl Acetate	5.11	43	50121	0.288	ppbv # 1
24) 1,1-Dichloroethane	4.61	63	184319	1.194	ppbv # 89
25) Ethyl Acetate	5.73	43	478781	2.006	ppbv 98
26) Hexane	5.74	57	177067	1.621	ppbv # 72
27) Carbon Disulfide	4.59	76	10377337	55.898	ppbv 95
29) Chloroform	5.81	83	99808	0.486	ppbv 95
30) Cyclohexane	7.21	84	47908	0.568	ppbv # 55
34) 2-Butanone	5.29	43	1176783	7.905	ppbv 98
35) Carbon Tetrachloride	7.10	117	9111	0.041	ppbv # 85
36) Benzene	6.97	78	505245	2.295	ppbv 96
37) 1,2-Dichloroethane	6.38	62	5653	0.035	ppbv # 84
38) Trichloroethene	7.92	130	30141	0.308	ppbv # 83
39) 1,2-Dichloropropane	7.26	63	685560	8.376	ppbv # 25
40) 1,4-Dioxane	7.93	88	2290	0.061	ppbv # 1
41) Tetrahydrofuran	6.11	42	86019	1.178	ppbv # 71
43) Methyl Methacrylate	8.09	69	2510	0.030	ppbv # 76
44) 2,2,4-Trimethylpentane	7.95	57	98438	0.259	ppbv # 68
50) 4-Methyl-2-Pentanone	8.83	43	18081	0.082	ppbv # 37
51) 2-Hexanone	10.22	43	9019	0.051	ppbv # 27
52) Tetrachloroethene	11.32	164	19853	0.210	ppbv # 63
53) Toluene	9.90	91	1096386	4.352	ppbv 100
58) Ethyl Benzene	12.82	91	203097	0.603	ppbv 90
59) m/p-Xylene	13.07	91	642370	2.105	ppbv 100
60) o-Xylene	13.80	91	254441	0.834	ppbv 99

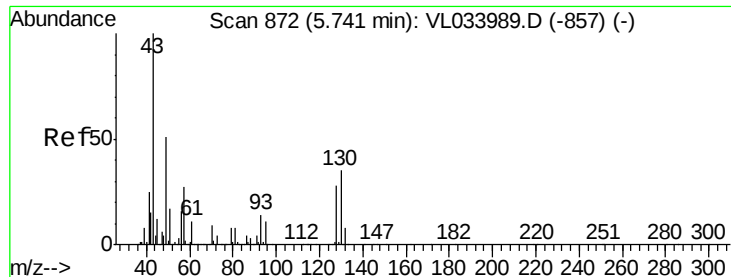
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
Data File : VL034038.D
Acq On : 17 Jul 2019 19:13
Operator : SY/AP
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Instrument :
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Quant Time: Jul 18 04:39:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Styrene	13.64	104	58663	0.290	ppbv	89
62) Isopropylbenzene	14.78	105	108399	0.231	ppbv	96
73) 1,3,5-Trimethylbenzene	16.11	105	13120	0.036	ppbv #	77
74) 1,2,4-Trimethylbenzene	16.88	105	53763	0.133	ppbv #	69
80) Naphthalene,2-methyl-	25.09	142	6726	0.054	ppbv #	84

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

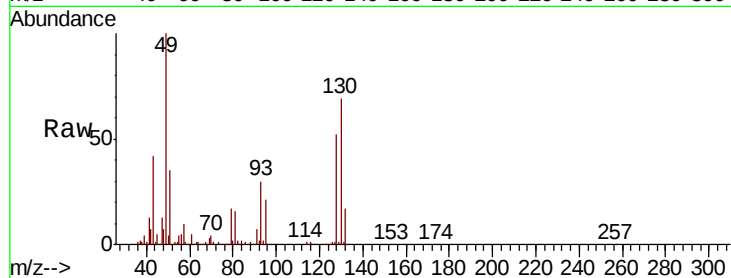
Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1037734

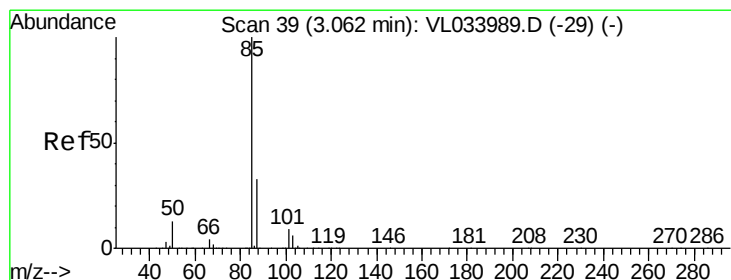
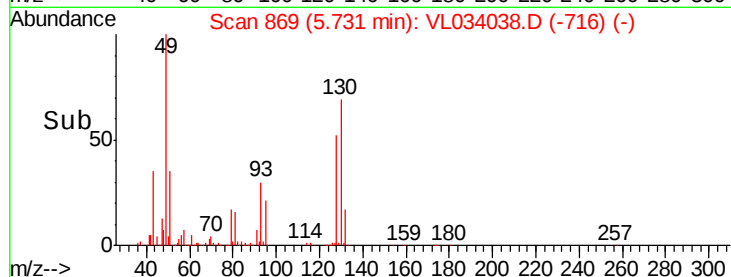
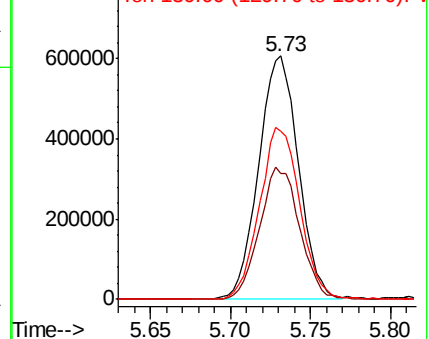
Ion	Ratio	Lower	Upper
49	100		
128	54.8	27.9	83.6
130	72.1	35.8	107.4



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: 32.670 ppbv

RT: 3.13 min Scan# 60

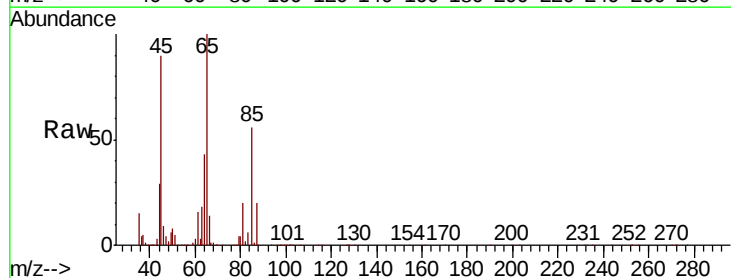
Delta R.T. 0.07 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

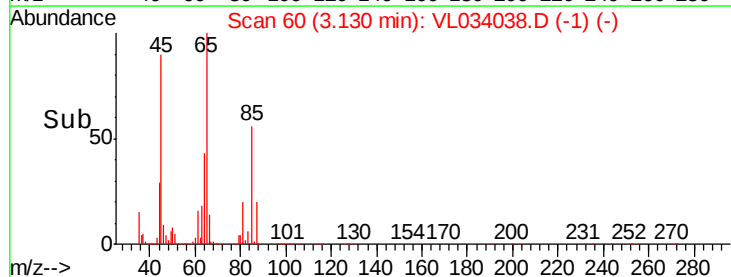
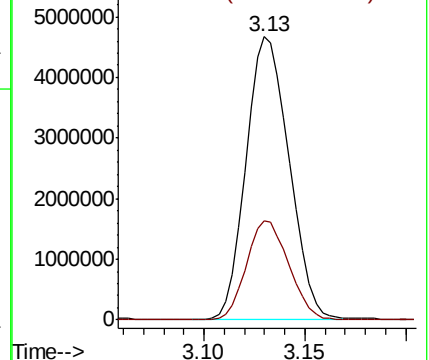
Tgt Ion: 85 Resp: 6996333

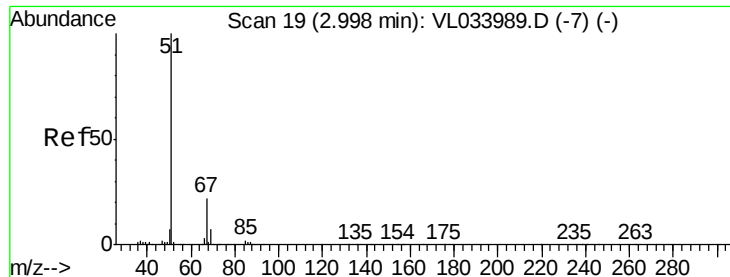
Ion	Ratio	Lower	Upper
85	100		
87	35.2	26.0	39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

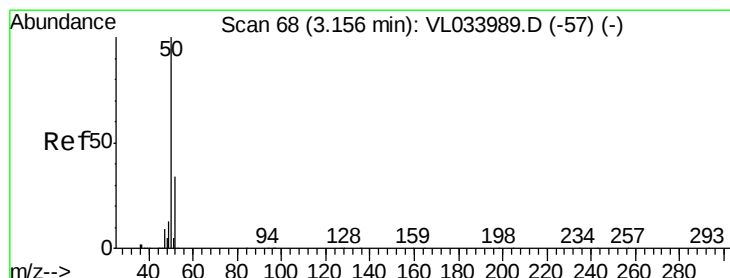
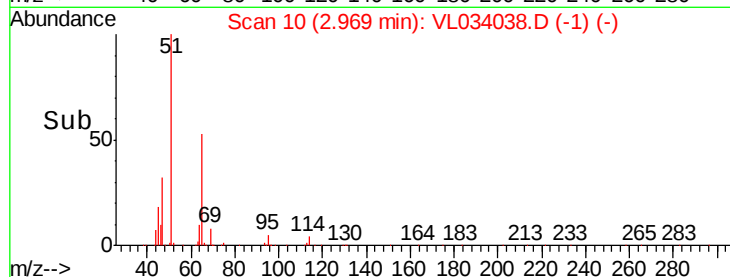
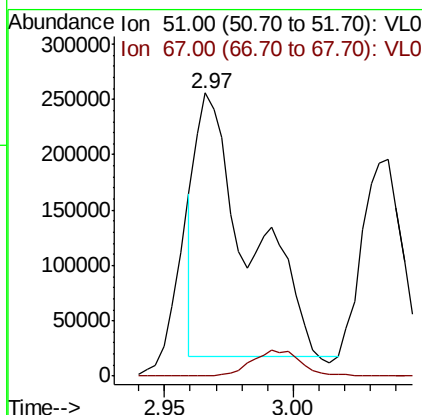
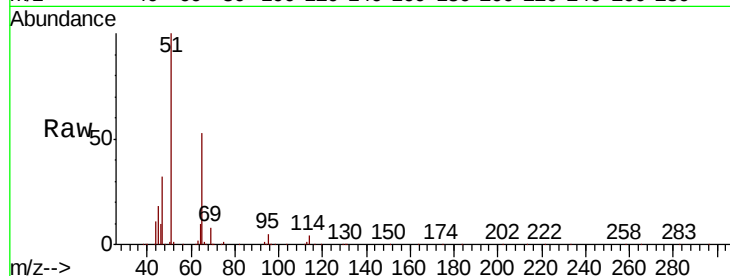




#3
Chlorodifluoromethane
Concen: 2.621 ppbv
RT: 2.97 min Scan# 10
Delta R.T. -0.03 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

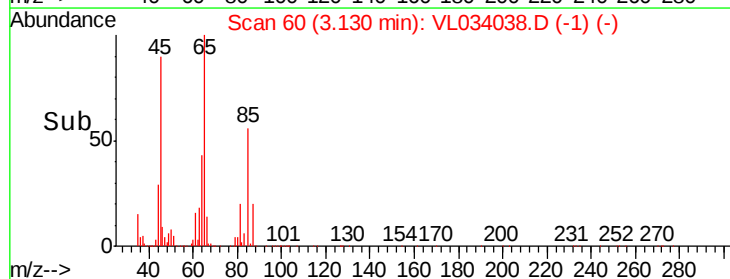
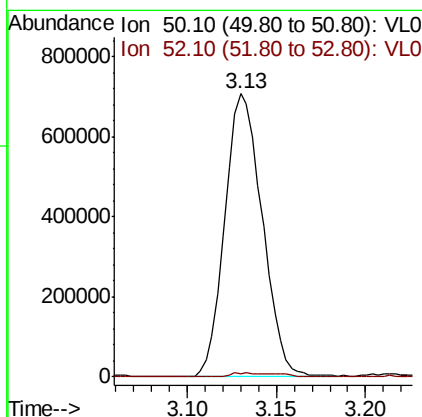
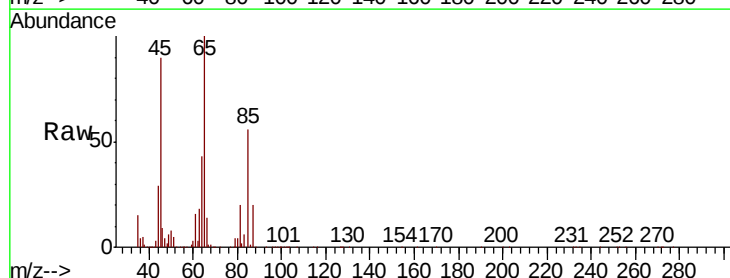
Instrument :
MSVOA_L
ClientSampleId :

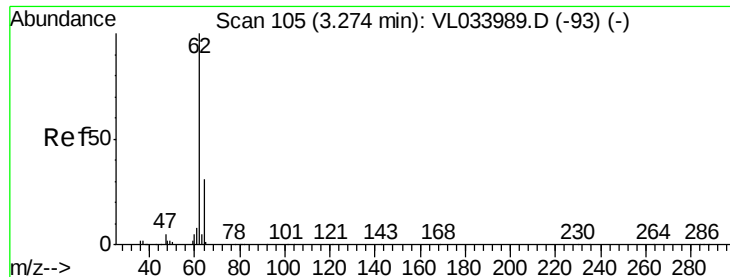
Tot Ion: 51 Resp: 335912
Ion Ratio Lower Upper
51 100
67 9.2 17.3 25.9#



#4
Chloromethane
Concen: 13.911 ppbv
RT: 3.13 min Scan# 60
Delta R.T. -0.03 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion: 50 Resp: 1025039
Ion Ratio Lower Upper
50 100
52 1.2 27.4 41.0#





#5

Vinyl Chloride

Concen: 0.261 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

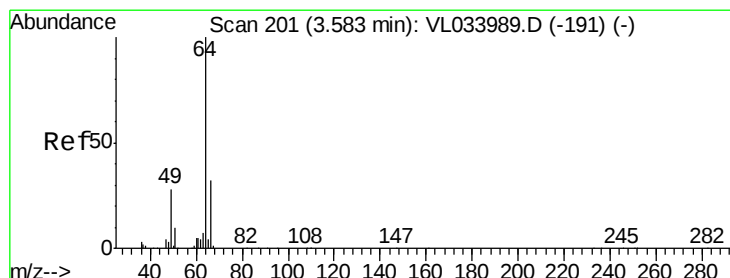
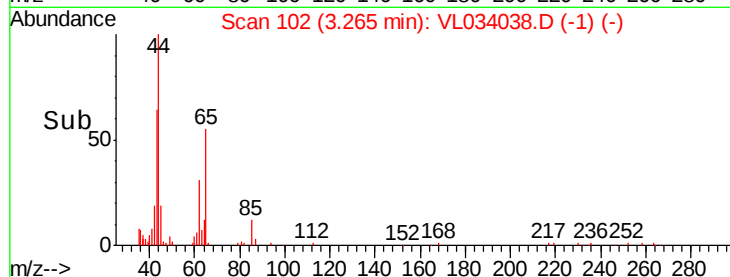
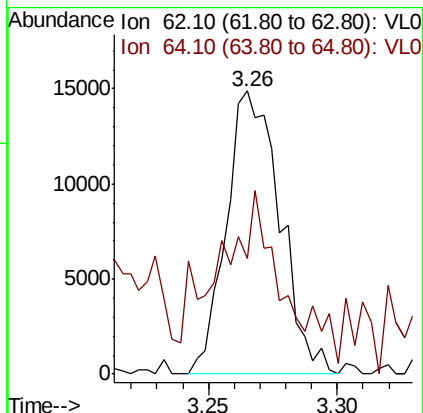
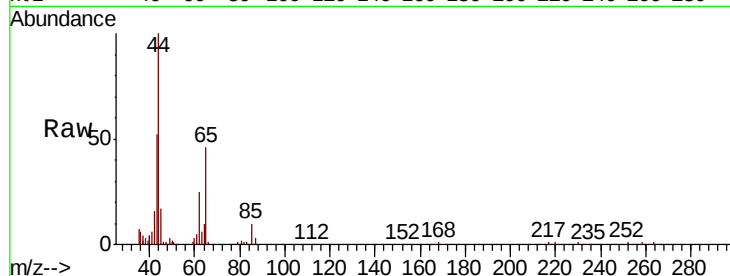
ClientSampleId :

Tot Ion: 62 Resp: 21610

Ion Ratio Lower Upper

62 100

64 37.3 24.4 36.6#



#7

Chloroethane

Concen: 173.983 ppbv

RT: 3.13 min Scan# 60

Delta R.T. -0.45 min

Lab File: VL034038.D

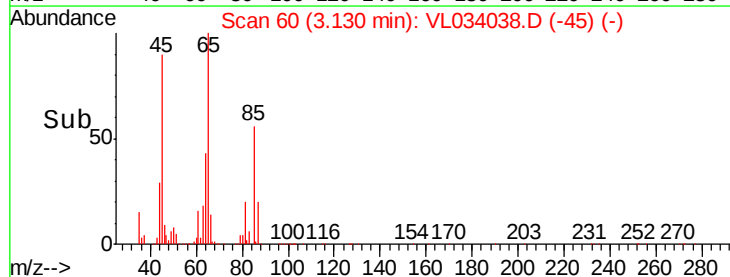
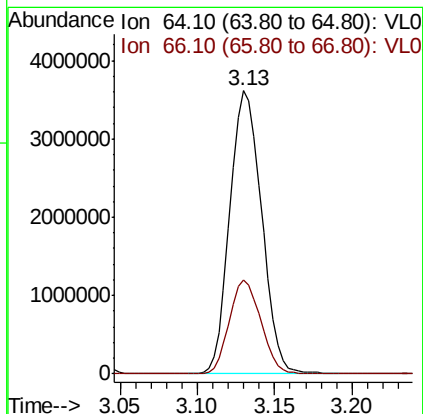
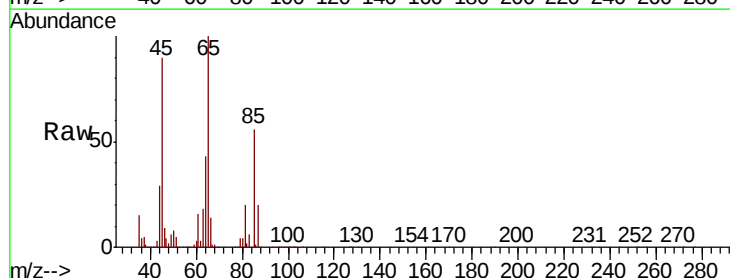
Acq: 17 Jul 2019 19:13

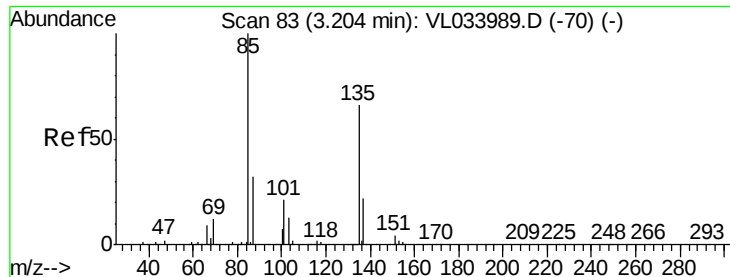
Tgt Ion: 64 Resp: 5152117

Ion Ratio Lower Upper

64 100

66 33.4 25.3 37.9





#8

Dichlorotetrafluoroethane

Concen: 33.508 ppbv

RT: 3.13 min Scan# 60

Delta R.T. -0.07 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

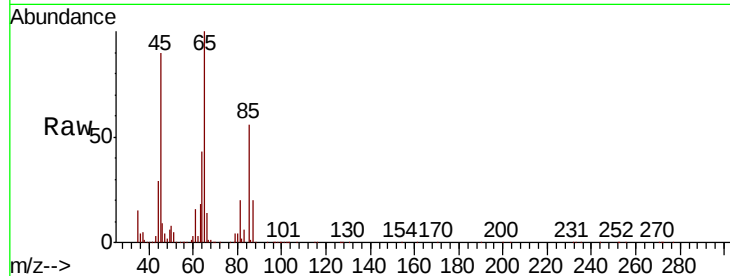
ClientSampleId :

Tot Ion: 85 Resp: 6996333

Ion Ratio Lower Upper

85 100

135 0.0 55.0 82.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.13

4000000

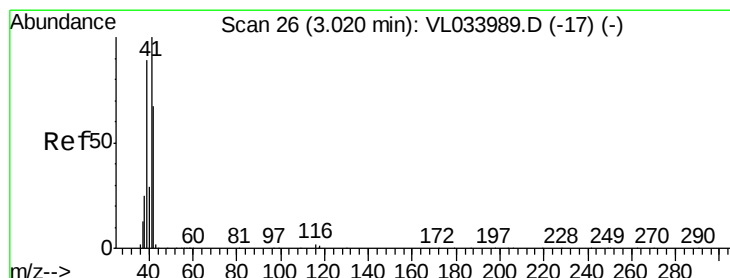
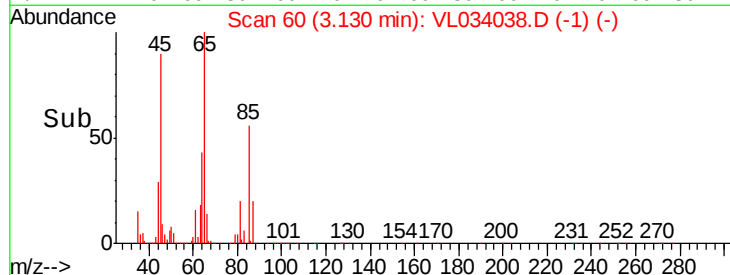
3000000

2000000

1000000

0

Time-->



#9

Propene

Concen: 62.398 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034038.D

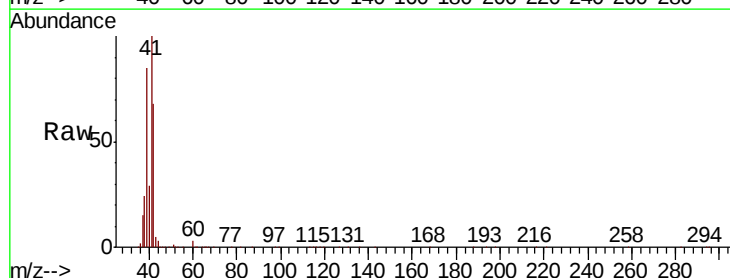
Acq: 17 Jul 2019 19:13

Tgt Ion: 41 Resp: 2941479

Ion Ratio Lower Upper

41 100

42 66.8 57.1 85.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

2500000

2000000

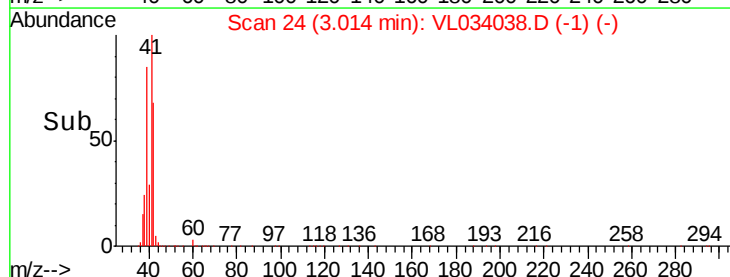
1500000

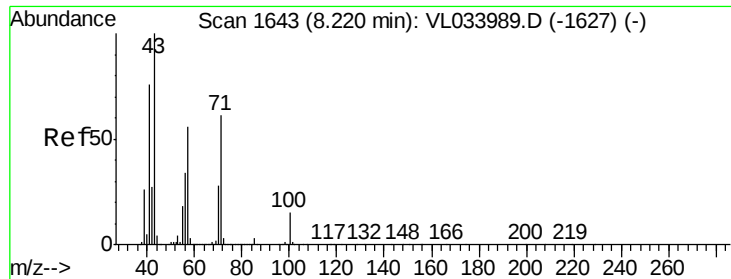
1000000

500000

0

Time-->





#10

Heptane

Concen: 0.718 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. -0.02 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

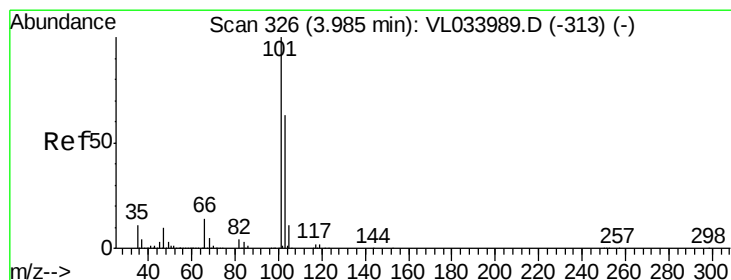
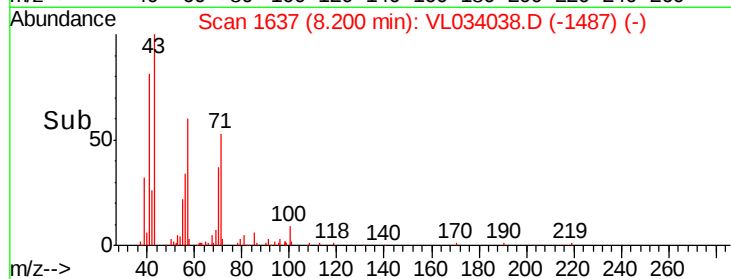
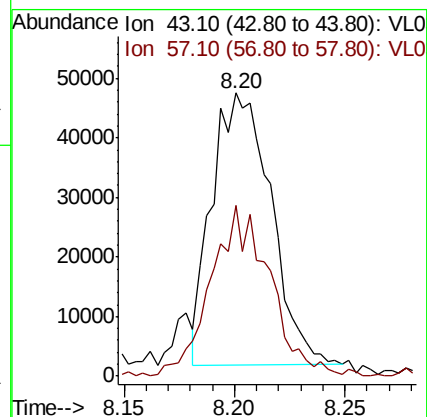
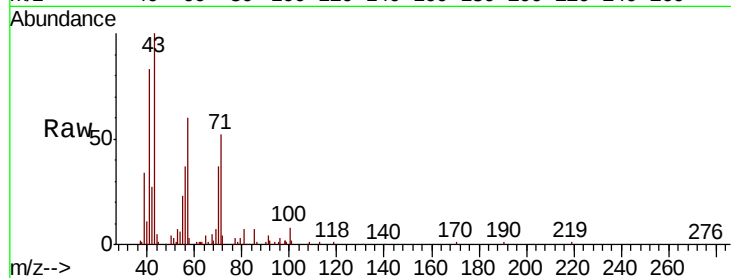
ClientSampleId :

Tot Ion: 43 Resp: 84803

Ion Ratio Lower Upper

43 100

57 64.5 44.6 66.8



#11

Trichlorofluoromethane

Concen: 2.935 ppbv

RT: 3.98 min Scan# 324

Delta R.T. -0.01 min

Lab File: VL034038.D

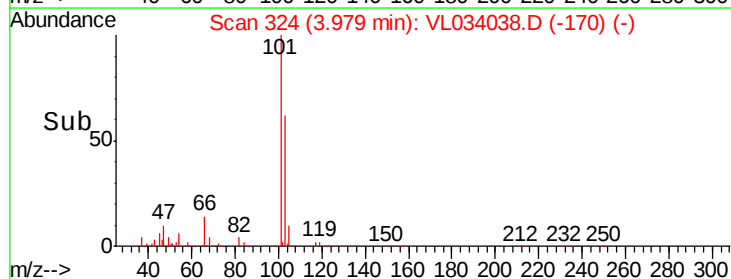
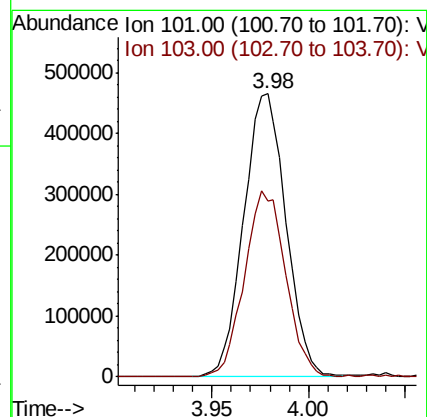
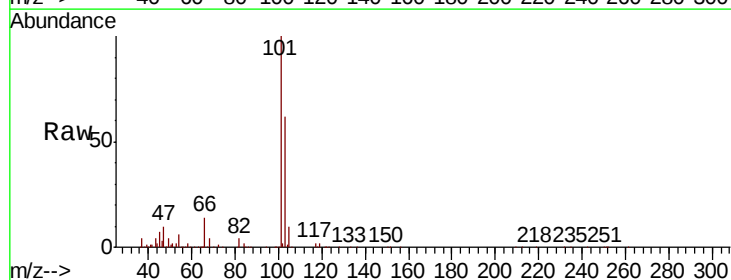
Acq: 17 Jul 2019 19:13

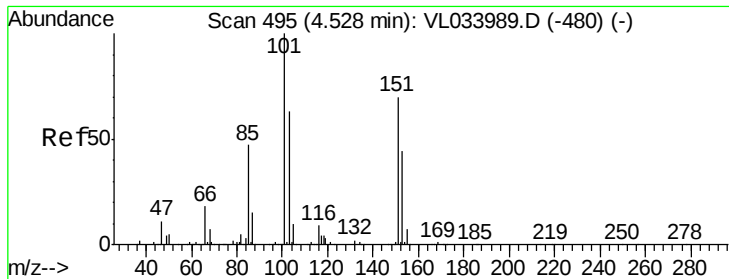
Tgt Ion: 101 Resp: 706699

Ion Ratio Lower Upper

101 100

103 62.2 50.8 76.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 4.53 min Scan# 494

Delta R.T. -0.00 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

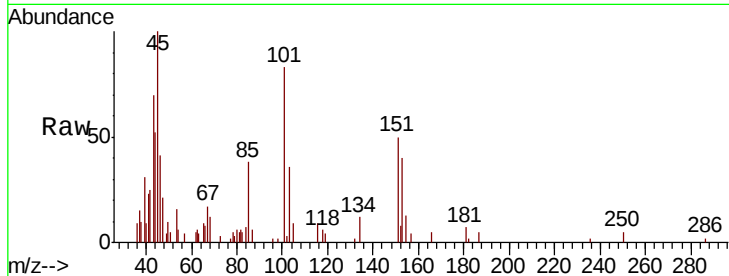
ClientSampleId :

Tot Ion:101 Resp: 5542

Ion Ratio Lower Upper

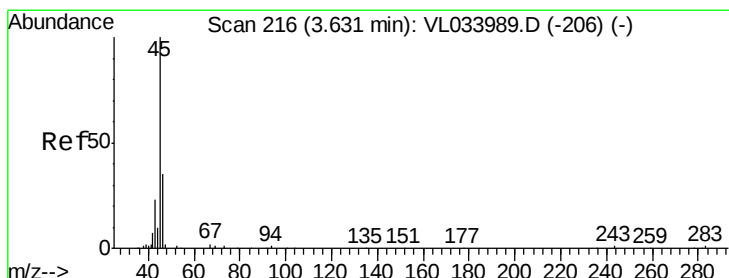
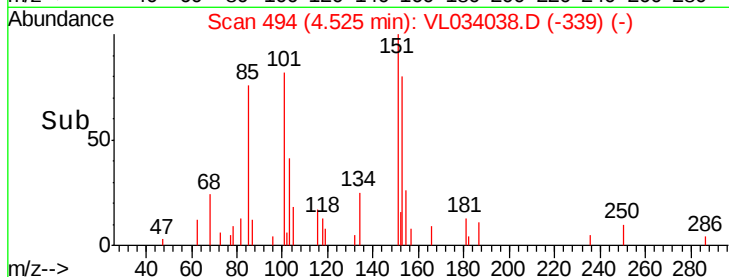
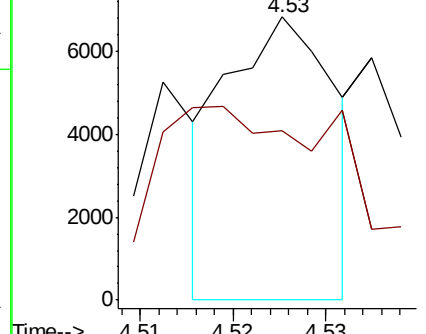
101 100

151 149.1 59.0 88.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 1572.796 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.04 min

Lab File: VL034038.D

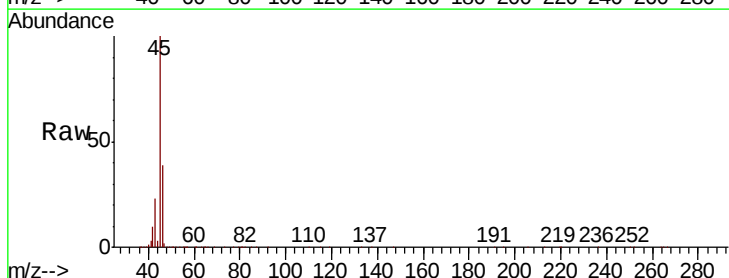
Acq: 17 Jul 2019 19:13

Tgt Ion: 45 Resp:23033211

Ion Ratio Lower Upper

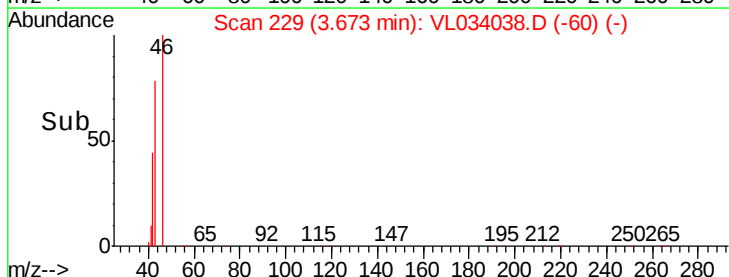
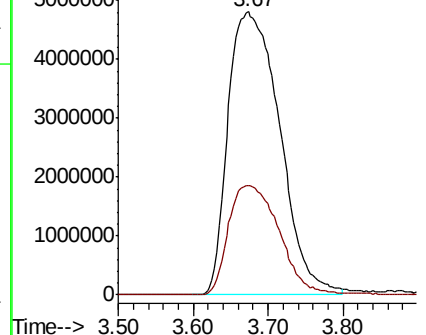
45 100

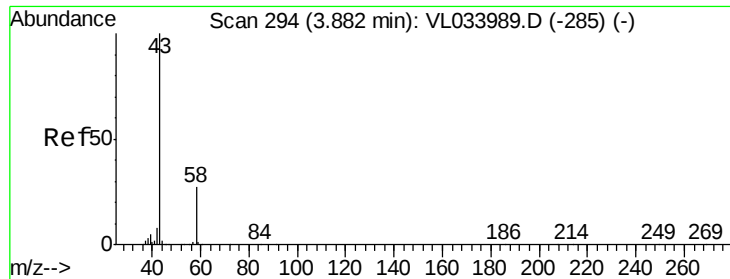
46 38.3 16.2 64.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 74.748 ppbv

RT: 3.87 min Scan# 290

Delta R.T. -0.01 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

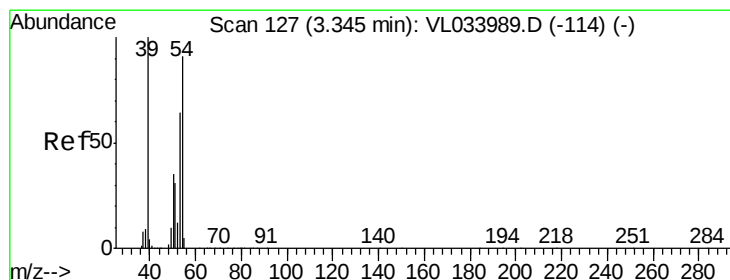
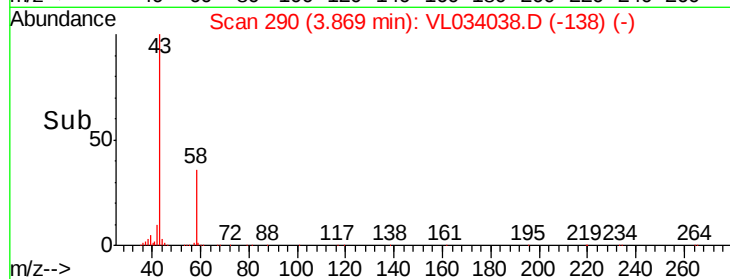
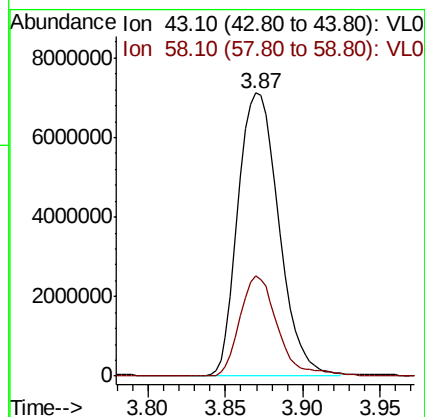
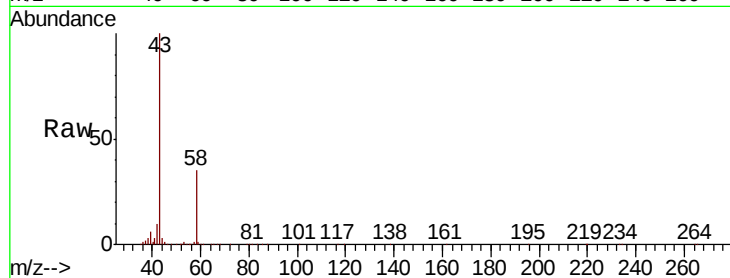
ClientSampleId :

Tot Ion: 43 Resp:13041541

Ion Ratio Lower Upper

43 100

58 33.2 21.4 32.0#



#16

1,3-Butadiene

Concen: 36.010 ppbv

RT: 3.32 min Scan# 119

Delta R.T. -0.03 min

Lab File: VL034038.D

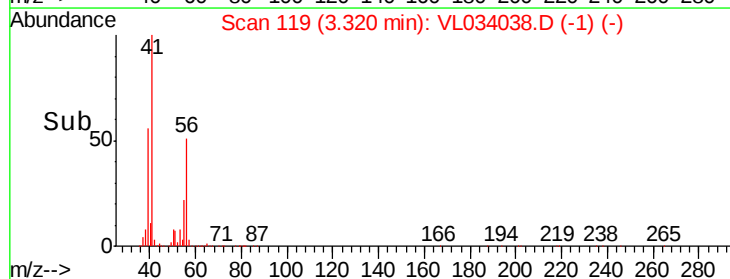
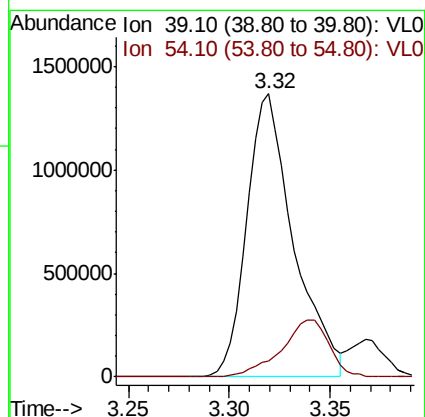
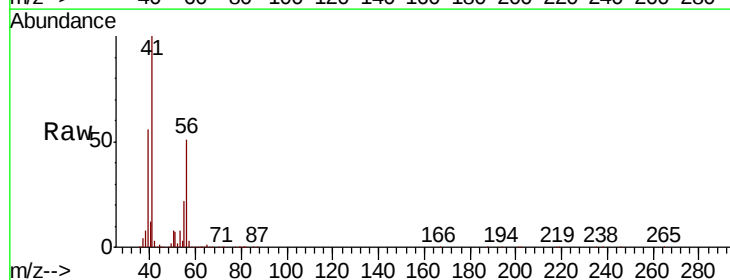
Acq: 17 Jul 2019 19:13

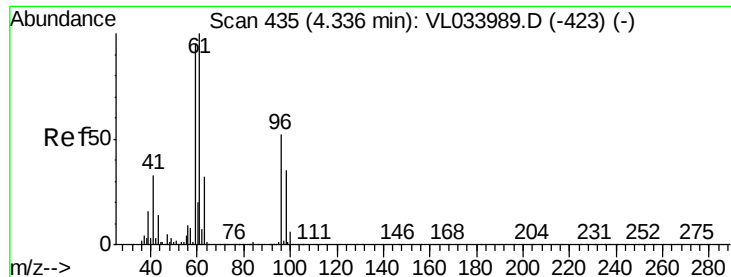
Tgt Ion: 39 Resp: 2218531

Ion Ratio Lower Upper

39 100

54 20.3 71.4 107.2#



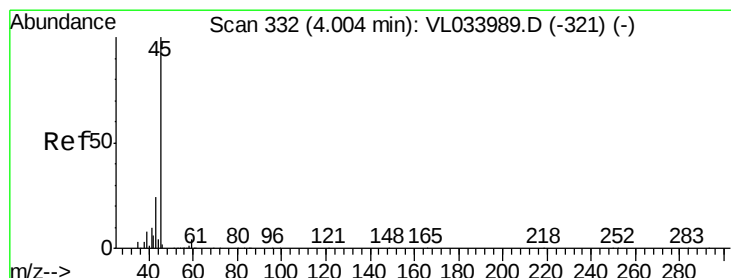
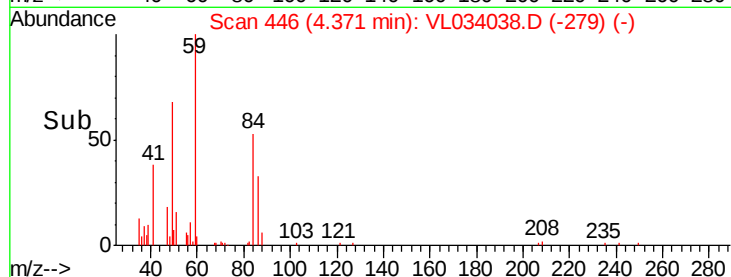
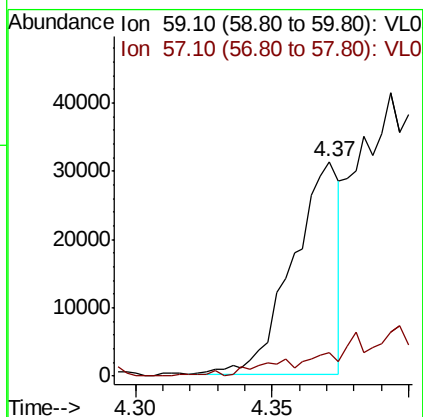
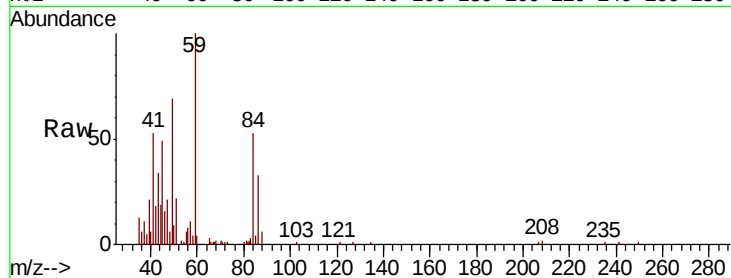


#17

tert-Butyl alcohol
Concen: 0.265 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.04 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Instrument :
MSVOA_L
ClientSampled :

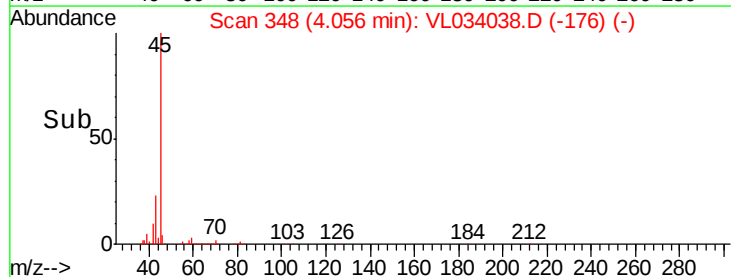
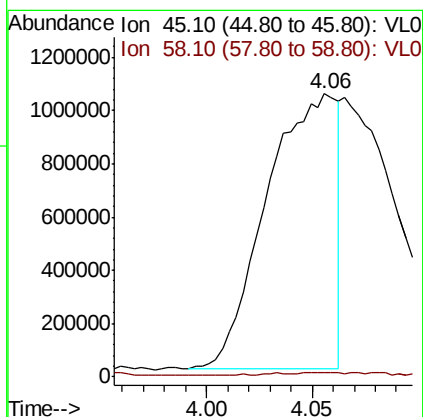
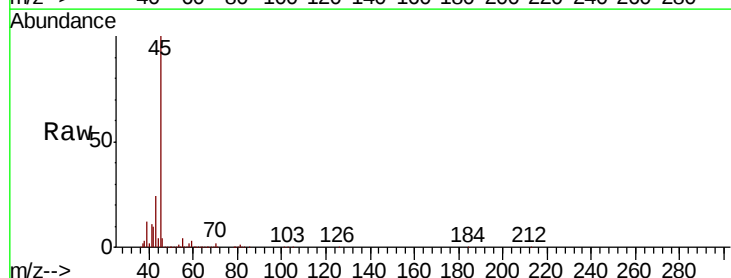
Tot Ion: 59 Resp: 36921
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

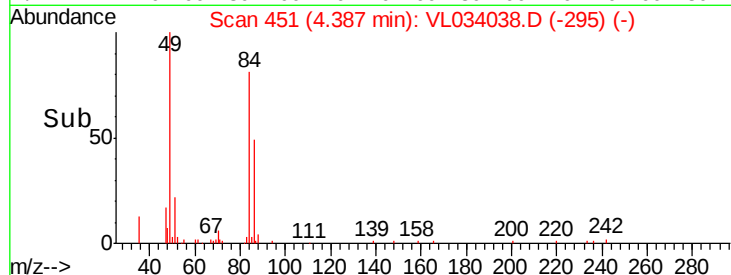
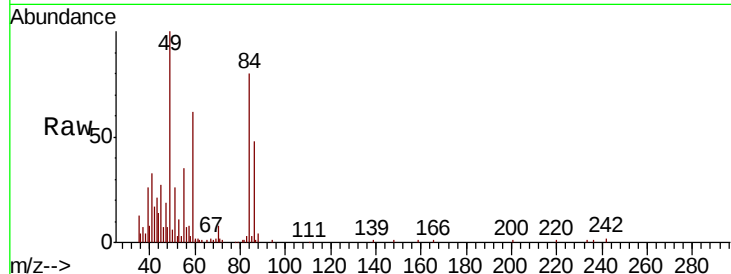
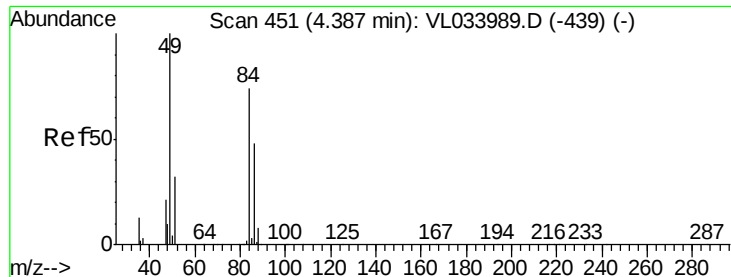


#19

Isopropyl Alcohol
Concen: 20.409 ppbv
RT: 4.06 min Scan# 348
Delta R.T. 0.05 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion: 45 Resp: 2390256
Ion Ratio Lower Upper
45 100
58 181.1 1.7 2.5#

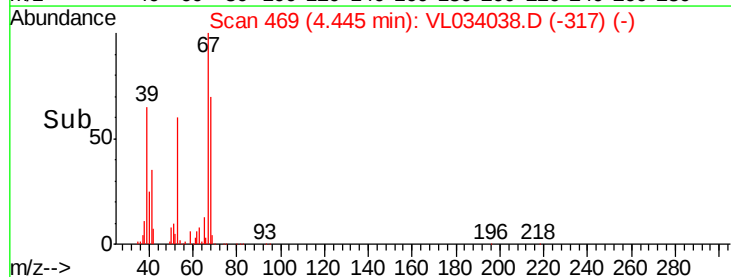
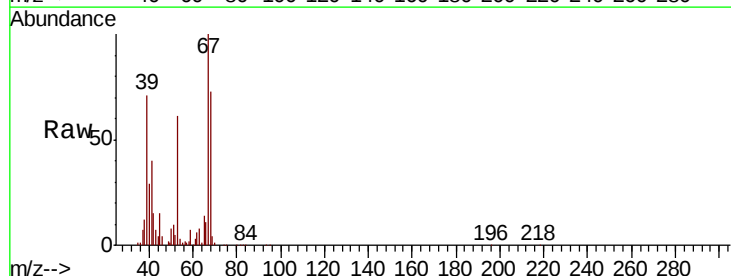
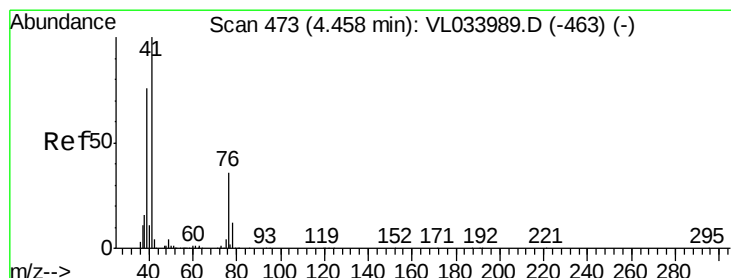
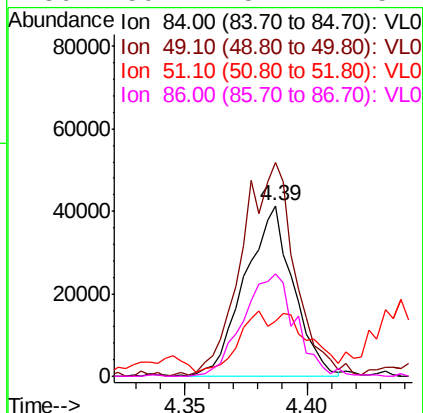




#20
Methylene Chloride
Concen: 0.747 ppbv
RT: 4.39 min Scan# 451
Delta R.T. 0.00 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

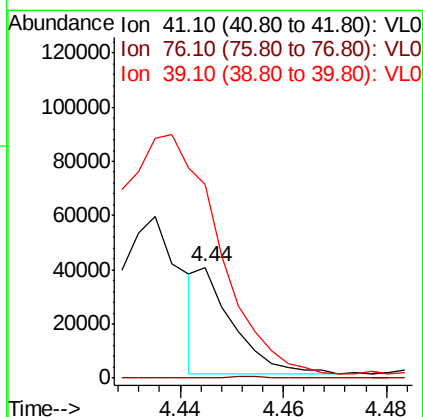
Instrument :
MSVOA_L
ClientSampleId :

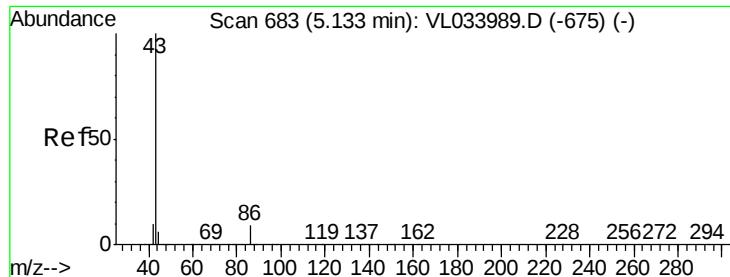
Tot Ion	Ratio	Lower	Upper
84	100		
49	124.7	107.6	161.4
51	25.8	35.0	52.6#
86	59.7	52.1	78.1



#21
Allyl Chloride
Concen: 0.173 ppbv
RT: 4.44 min Scan# 469
Delta R.T. -0.01 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion	Ratio	Lower	Upper
41	100		
76	0.0	26.8	40.2#
39	0.0	63.1	94.7#





#23

Vinyl Acetate

Concen: 0.288 ppbv

RT: 5.11 min Scan# 675

Delta R.T. -0.03 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 50121

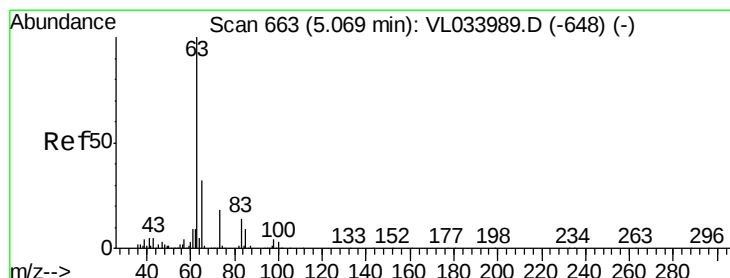
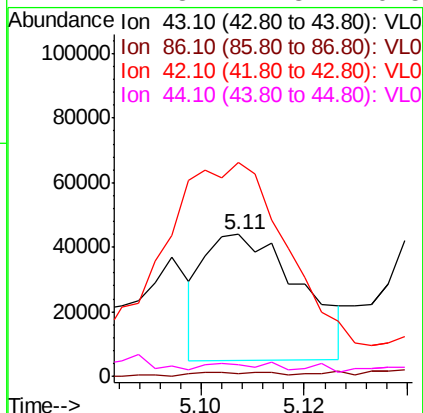
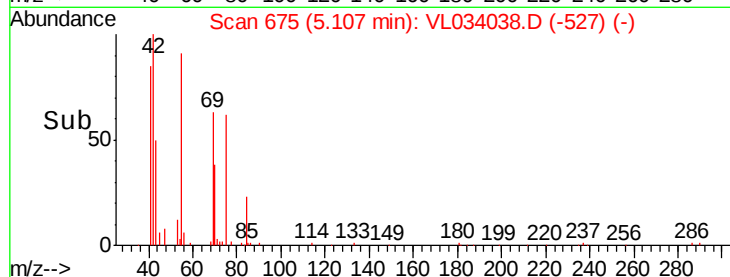
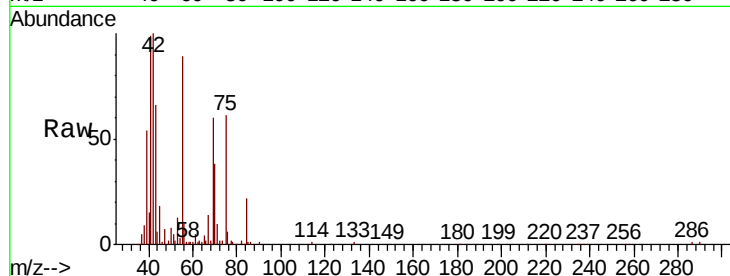
Ion Ratio Lower Upper

43 100

86 0.0 6.6 9.8#

42 222.5 8.3 12.5#

44 11.8 4.3 6.5#



#24

1,1-Dichloroethane

Concen: 1.194 ppbv

RT: 4.61 min Scan# 521

Delta R.T. -0.46 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

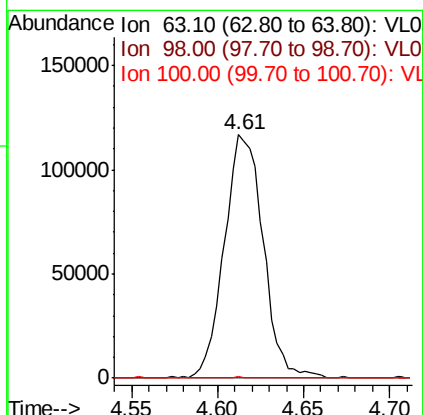
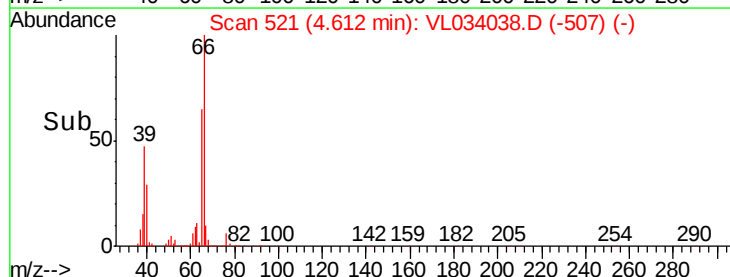
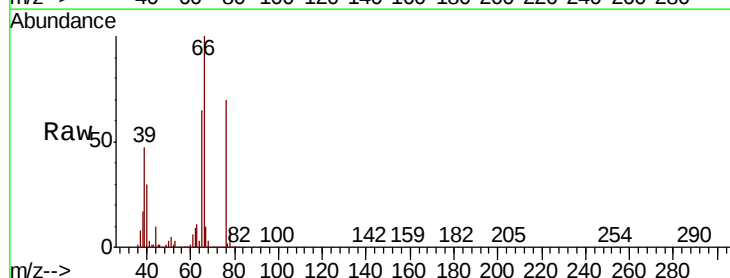
Tgt Ion: 63 Resp: 184319

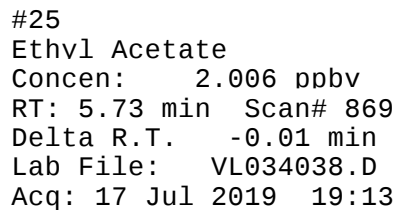
Ion Ratio Lower Upper

63 100

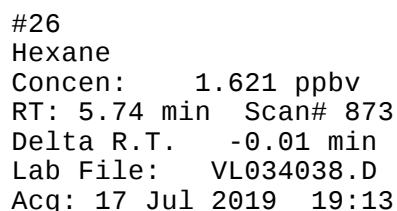
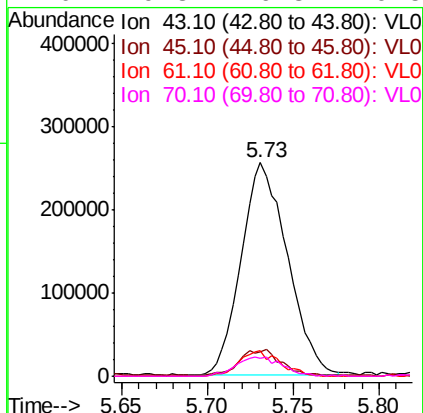
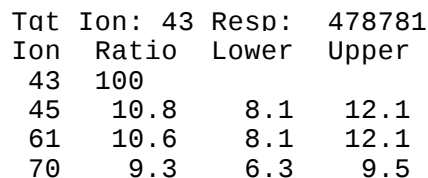
98 0.0 2.2 6.6#

100 0.5 1.4 4.2#

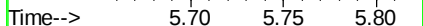
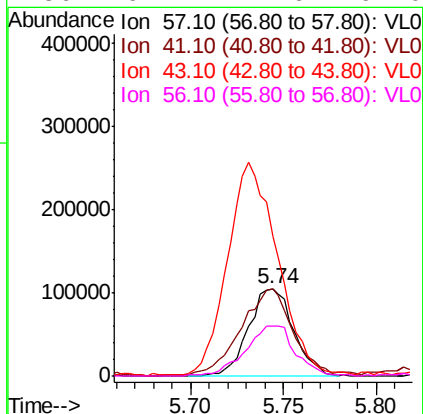


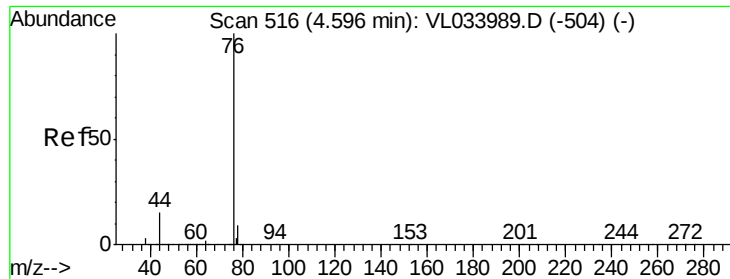


Instrument :
MSVOA_L
ClientSampleId :



Tgt	Ion: 57	Resp:	177067
Ion	Ratio	Lower	Upper
57	100		
41	115.9	70.6	105.8#
43	272.4	177.6	266.4#
56	64.1	42.6	64.0#





#27

Carbon Disulfide

Concen: 55.898 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

ClientSampleId :

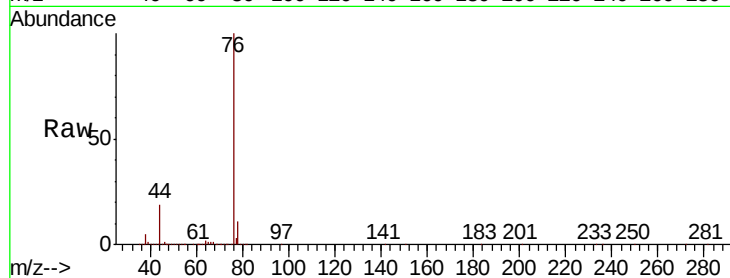
Tot Ion: 76 Resp:10377337

Ion Ratio Lower Upper

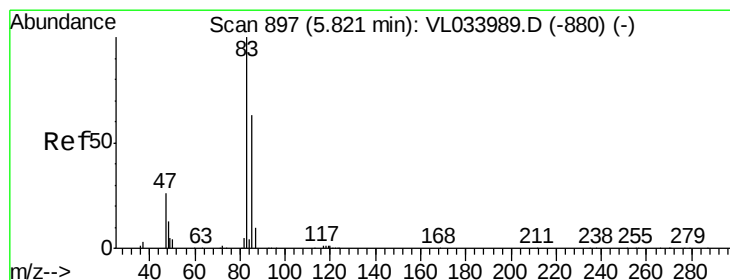
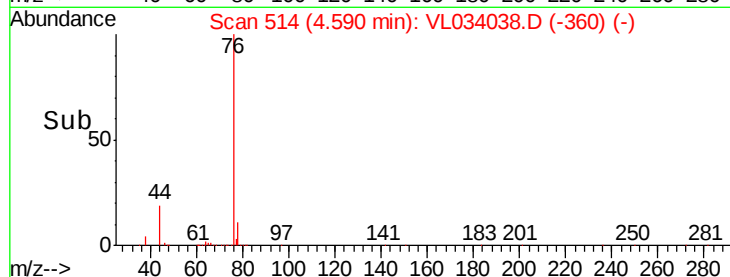
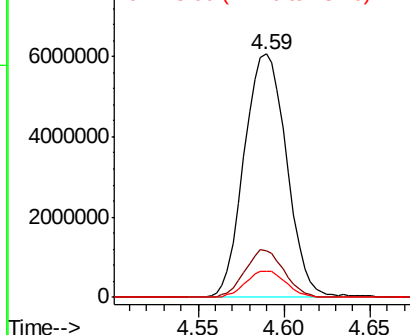
76 100

44 18.1 12.6 18.8

78 10.3 7.2 10.8



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



#29

Chloroform

Concen: 0.486 ppbv

RT: 5.81 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL034038.D

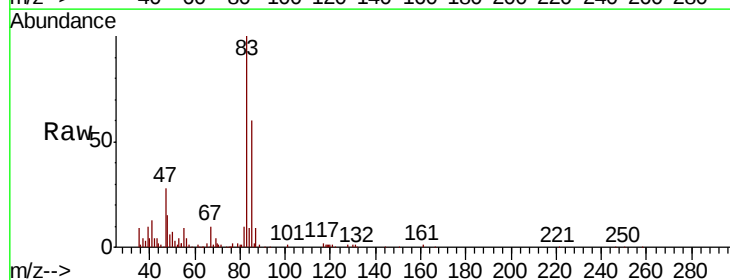
Acq: 17 Jul 2019 19:13

Tgt Ion: 83 Resp: 99808

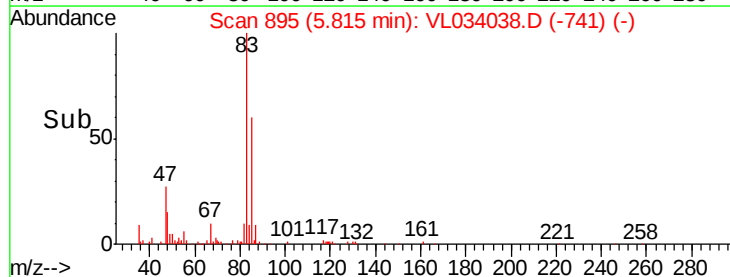
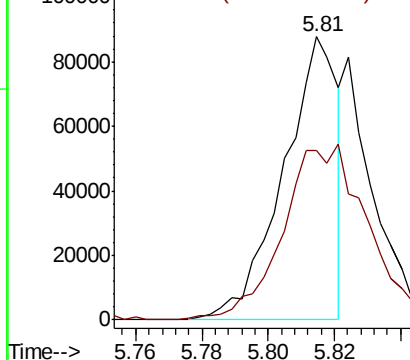
Ion Ratio Lower Upper

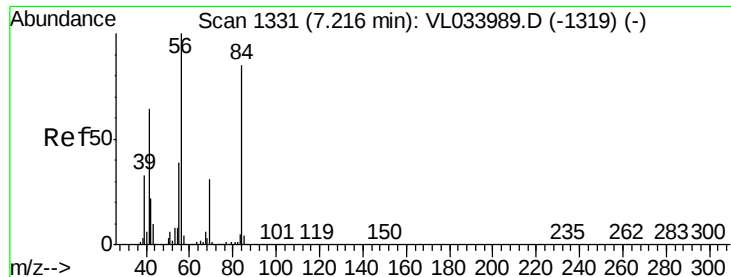
83 100

85 59.1 50.6 75.8



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

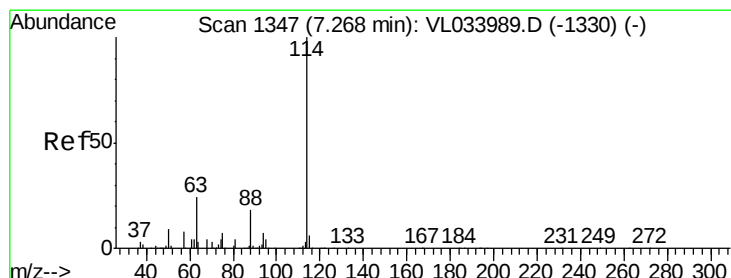
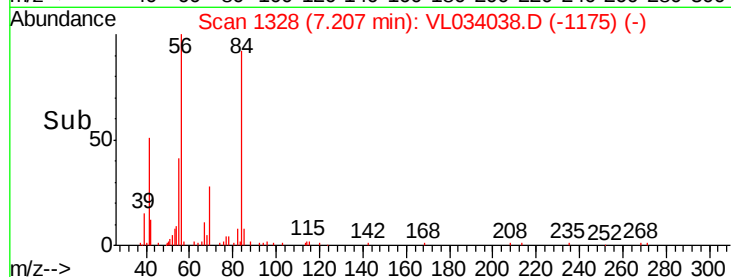
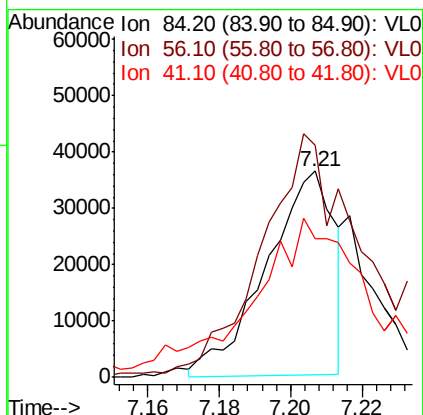
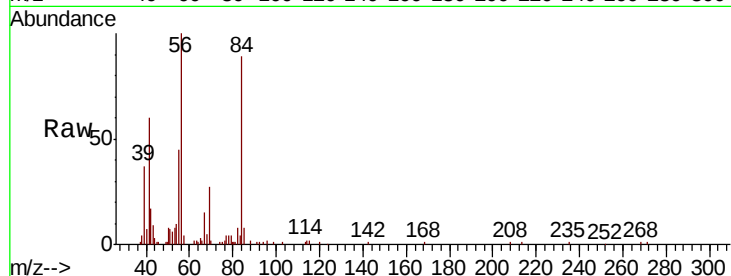




#30
Cyclohexane
Concen: 0.568 ppbv
RT: 7.21 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

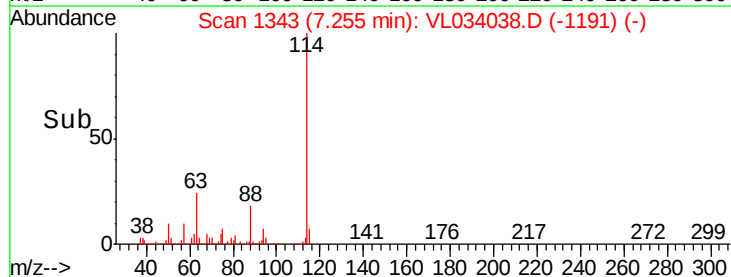
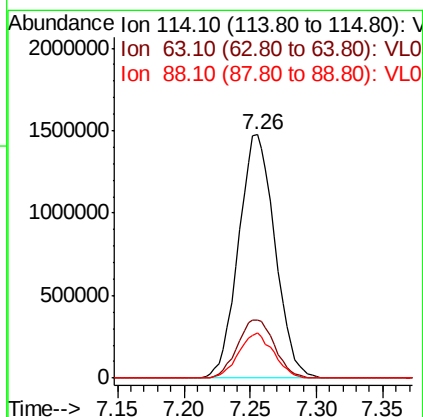
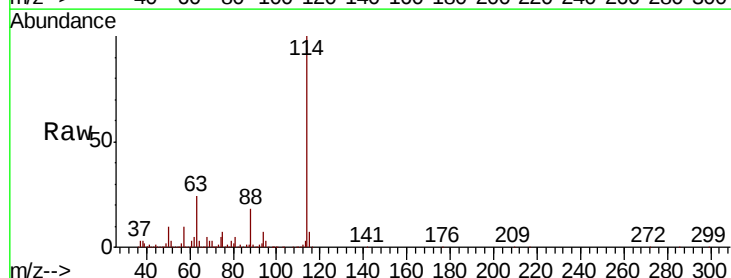
Instrument :
MSVOA_L
ClientSampled :

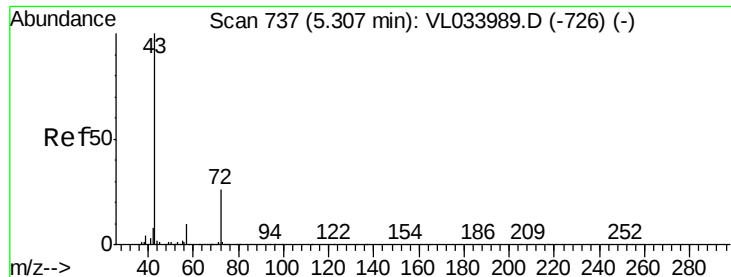
Tot Ion: 84 Resp: 47908
Ion Ratio Lower Upper
84 100
56 156.5 103.7 155.5#
41 149.6 62.6 94.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1343
Delta R.T. -0.01 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion: 114 Resp: 2812924
Ion Ratio Lower Upper
114 100
63 24.6 20.2 30.2
88 18.0 14.1 21.1

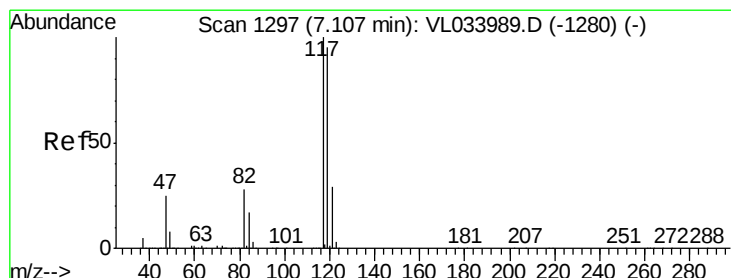
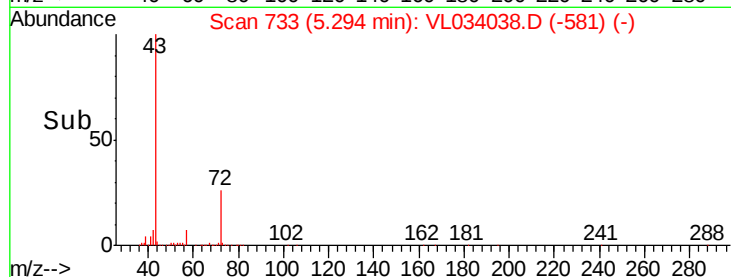
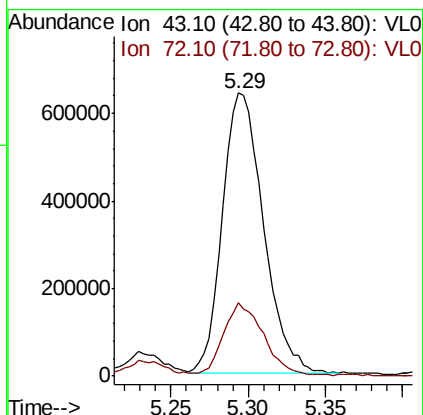
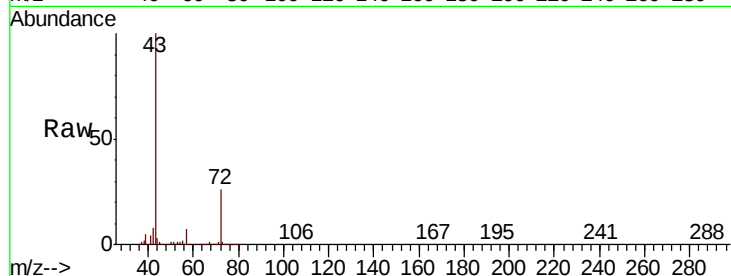




#34
2-Butanone
Concen: 7.905 ppbv
RT: 5.29 min Scan# 733
Delta R.T. -0.01 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

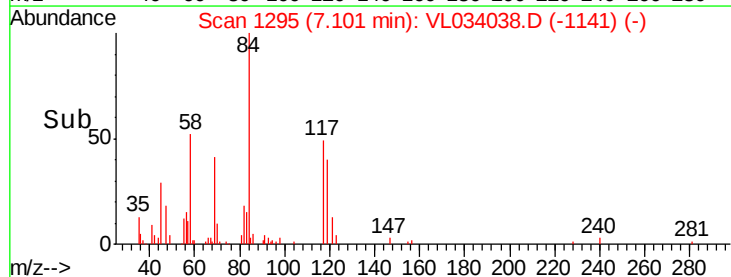
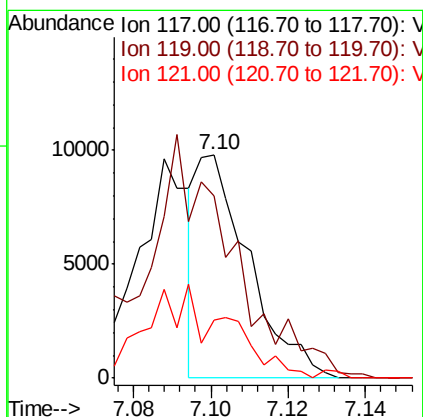
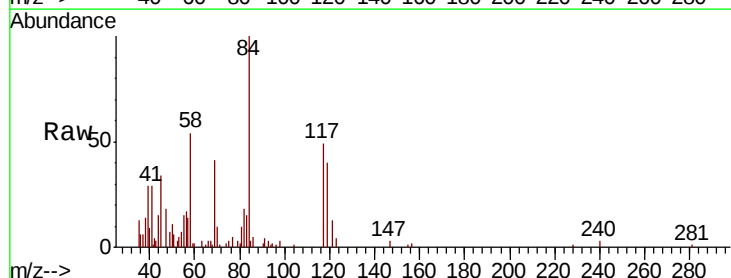
Instrument :
MSVOA_L
ClientSampleId :

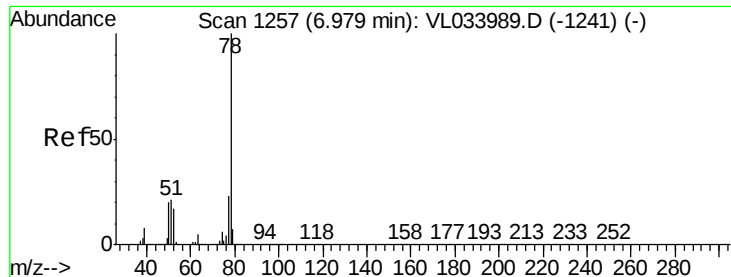
Tot Ion: 43 Resp: 1176783
Ion Ratio Lower Upper
43 100
72 25.9 19.9 29.9



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 7.10 min Scan# 1295
Delta R.T. -0.01 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion: 117 Resp: 9111
Ion Ratio Lower Upper
117 100
119 79.2 75.8 113.6
121 22.9 23.4 35.2#





#36

Benzene

Concen: 2.295 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

ClientSampleId :

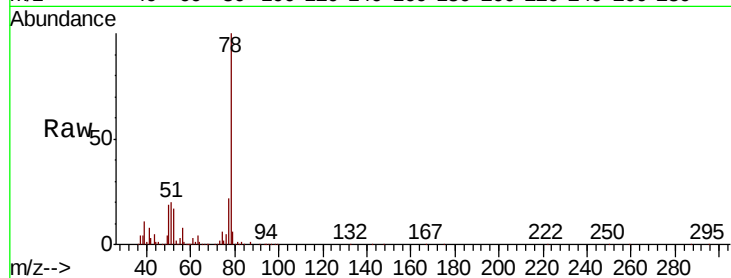
Tot Ion: 78 Resp: 505245

Ion Ratio Lower Upper

78 100

77 21.8 18.7 28.1

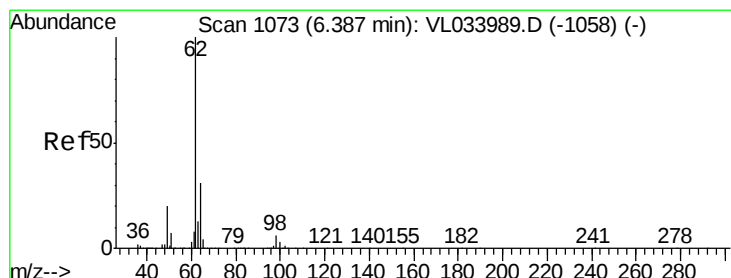
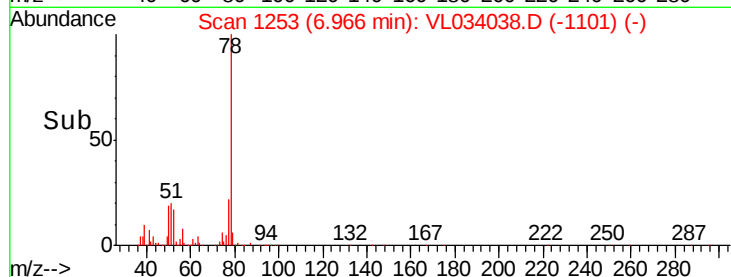
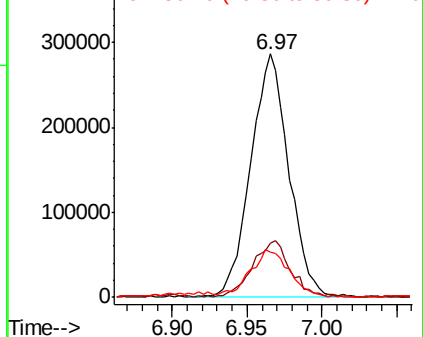
50 18.4 16.2 24.2



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



#37

1,2-Dichloroethane

Concen: 0.035 ppbv

RT: 6.38 min Scan# 1070

Delta R.T. -0.01 min

Lab File: VL034038.D

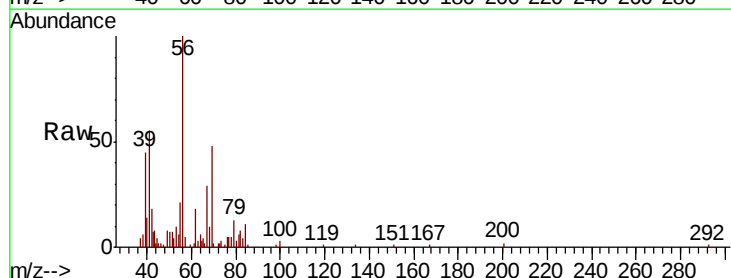
Acq: 17 Jul 2019 19:13

Tgt Ion: 62 Resp: 5653

Ion Ratio Lower Upper

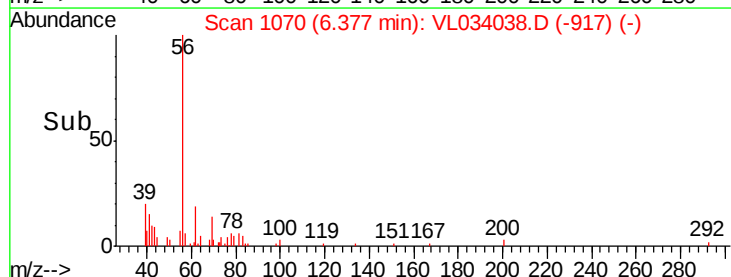
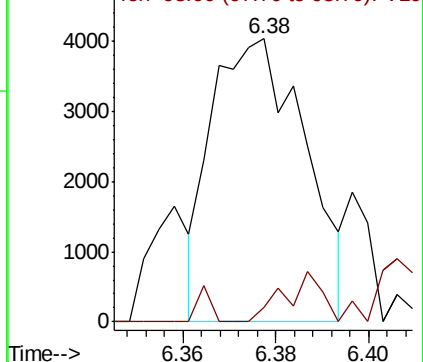
62 100

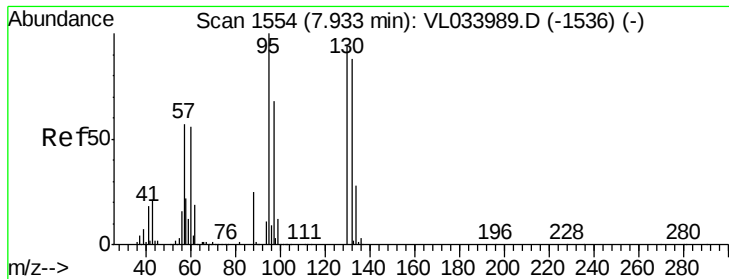
98 0.0 4.4 6.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

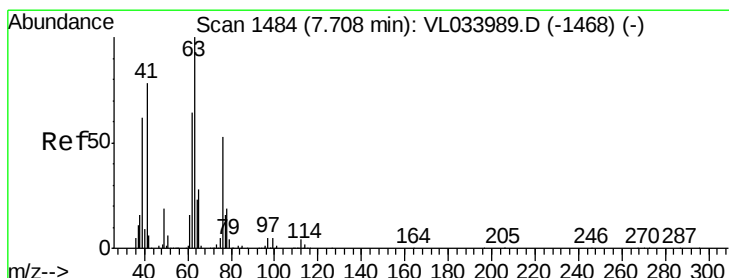
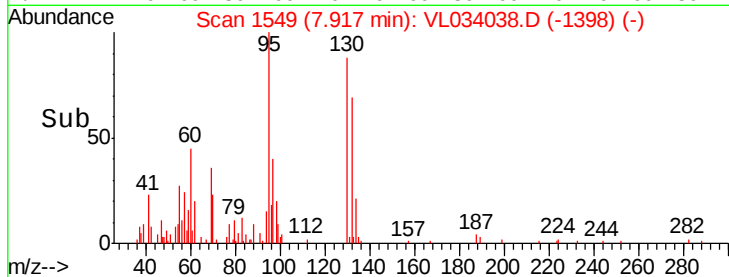
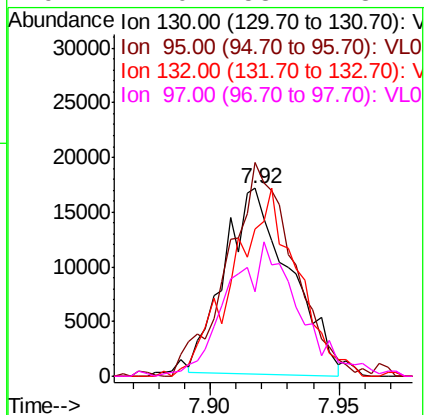
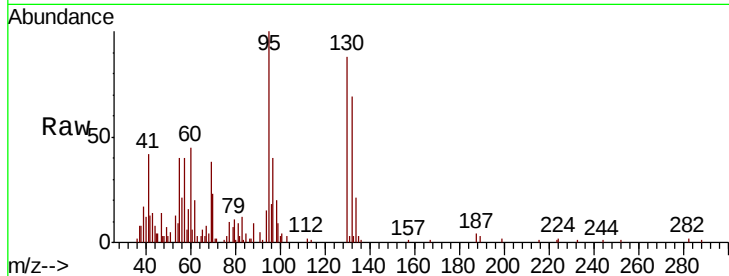




#38
 Trichloroethene
 Concen: 0.308 ppbv
 RT: 7.92 min Scan# 1549
 Delta R.T. -0.02 min
 Lab File: VL034038.D
 Acq: 17 Jul 2019 19:13

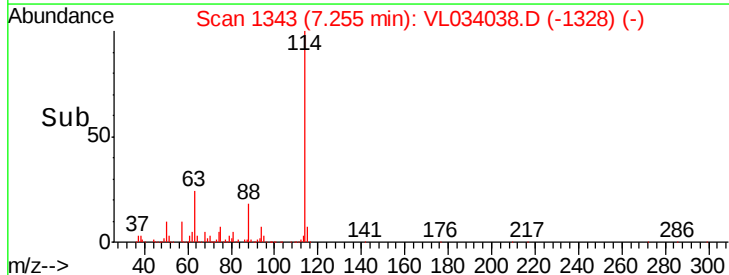
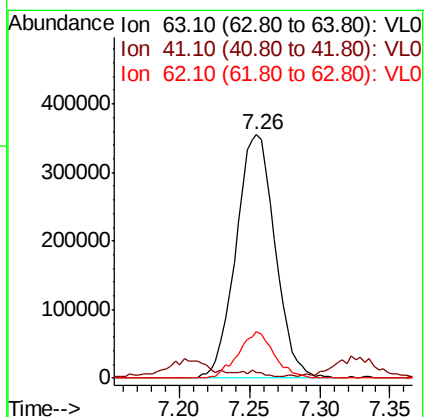
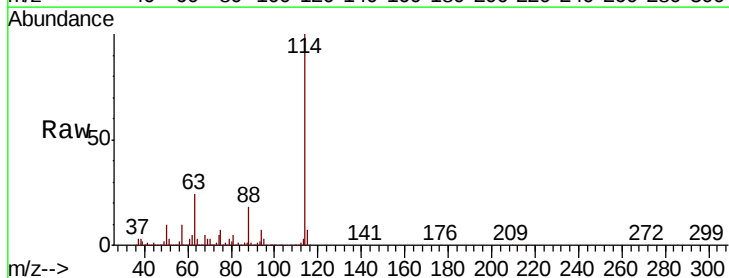
Instrument :
 MSVOA_L
 ClientSampleId :

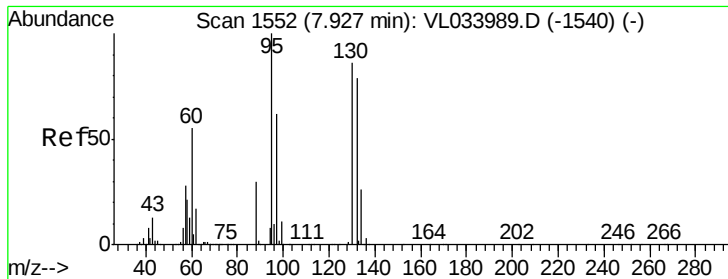
Tot Ion:130 Resp: 30141
 Ion Ratio Lower Upper
 130 100
 95 109.6 85.5 128.3
 132 76.0 75.1 112.7
 97 41.0 58.1 87.1#



#39
 1,2-Dichloropropane
 Concen: 8.376 ppbv
 RT: 7.26 min Scan# 1343
 Delta R.T. -0.45 min
 Lab File: VL034038.D
 Acq: 17 Jul 2019 19:13

Tgt Ion: 63 Resp: 685560
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.3 93.5#
 62 19.1 51.4 77.2#





#40

1,4-Dioxane

Concen: 0.061 ppbv

RT: 7.93 min Scan# 1552

Delta R.T. 0.00 min

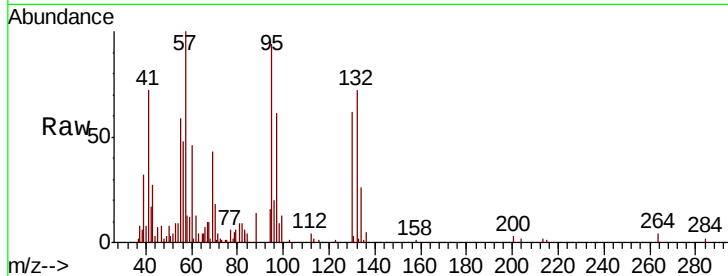
Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

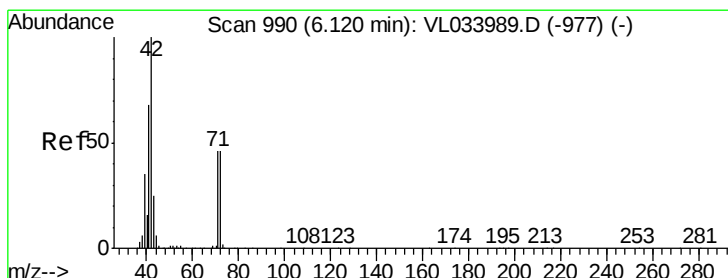
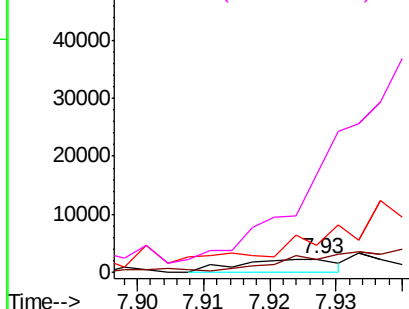
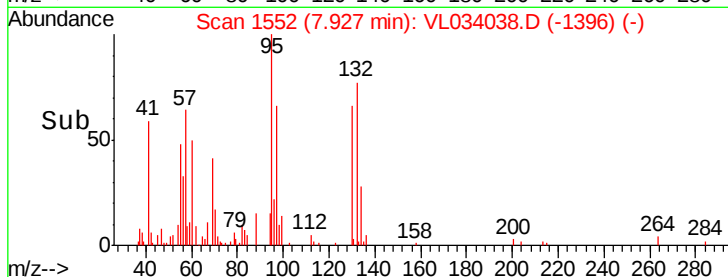
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 88 Resp: 2290

Ion	Ratio	Lower	Upper
88	100		
58	0.0	99.1	148.7#
43	0.0	0.0	0.0
57	0.0	0.0	0.0



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0



#41

Tetrahydrofuran

Concen: 1.178 ppbv

RT: 6.11 min Scan# 988

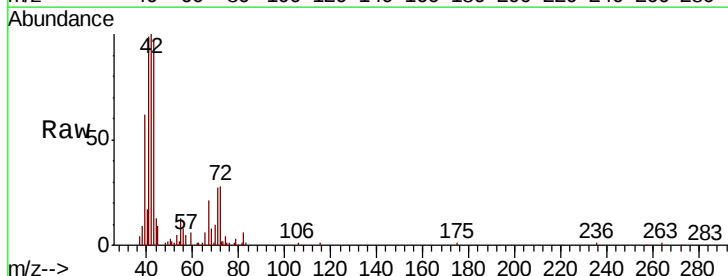
Delta R.T. -0.01 min

Lab File: VL034038.D

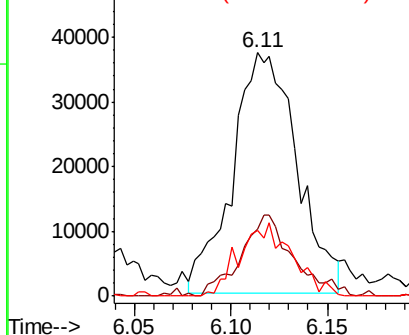
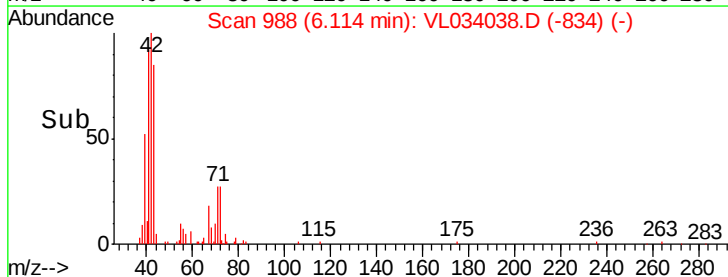
Acq: 17 Jul 2019 19:13

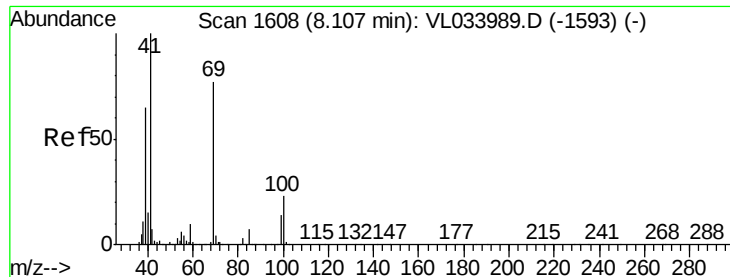
Tgt Ion: 42 Resp: 86019

Ion	Ratio	Lower	Upper
42	100		
72	28.4	37.3	55.9#
71	24.9	36.2	54.2#



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

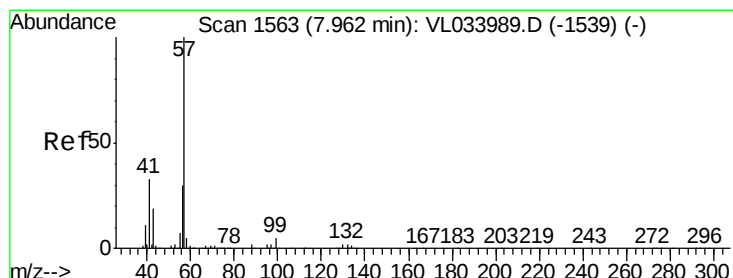
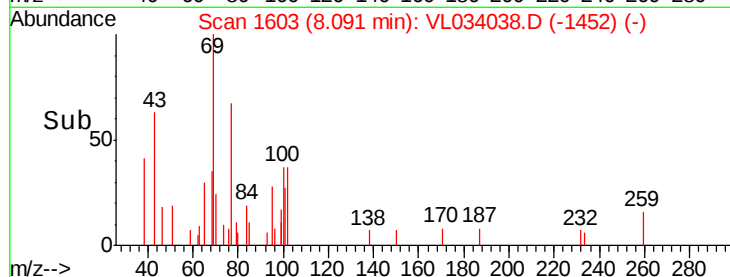
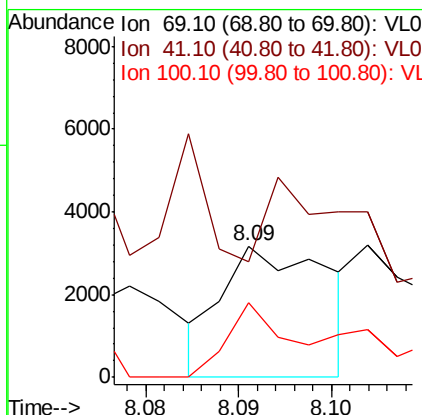
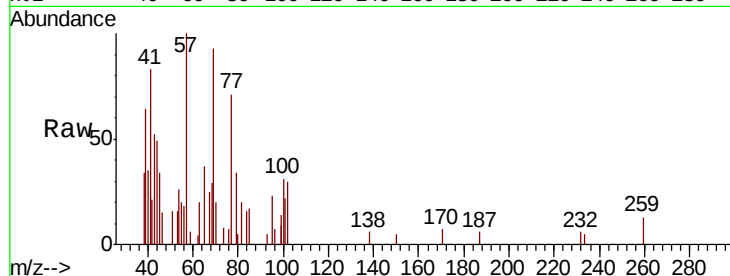




#43
Methvl Methacrvlate
Concen: 0.030 ppbv
RT: 8.09 min Scan# 1603
Delta R.T. -0.02 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

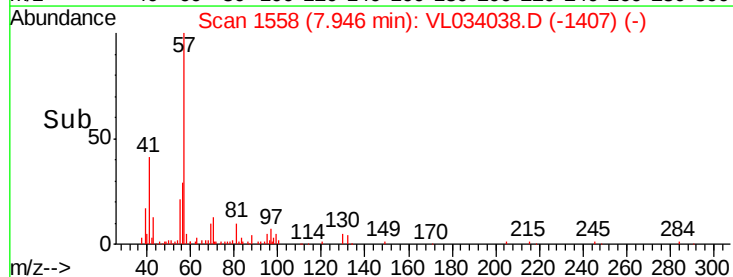
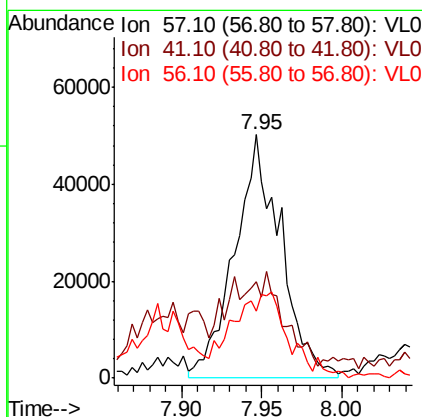
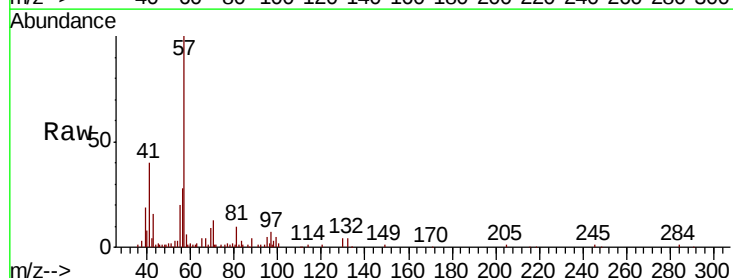
Instrument :
MSVOA_L
ClientSampleId :

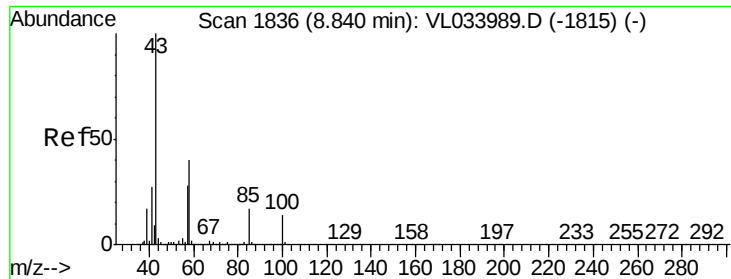
Tot Ion: 69 Resp: 2510
Ion Ratio Lower Upper
69 100
41 156.5 109.1 163.7
100 0.0 25.3 37.9#



#44
2,2,4-Trimethylpentane
Concen: 0.259 ppbv
RT: 7.95 min Scan# 1558
Delta R.T. -0.02 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion: 57 Resp: 98438
Ion Ratio Lower Upper
57 100
41 53.0 26.1 39.1#
56 45.9 24.4 36.6#

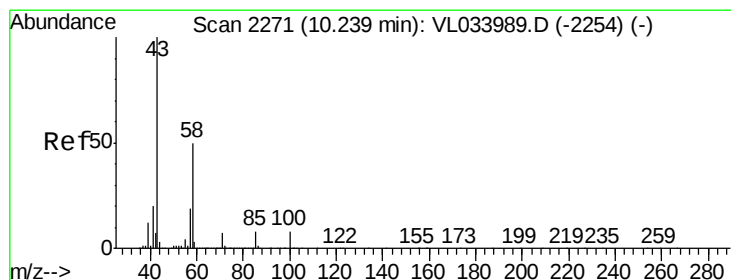
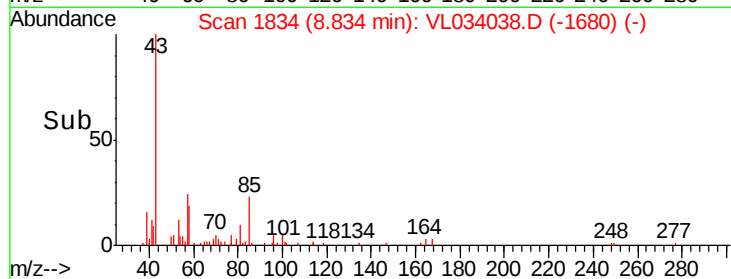
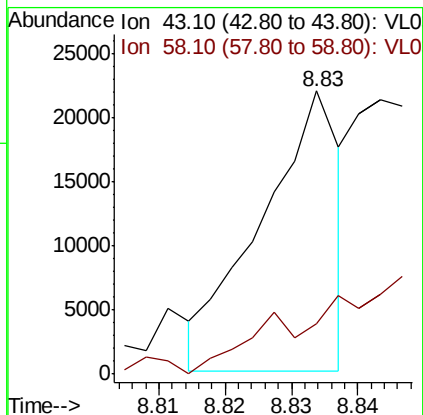
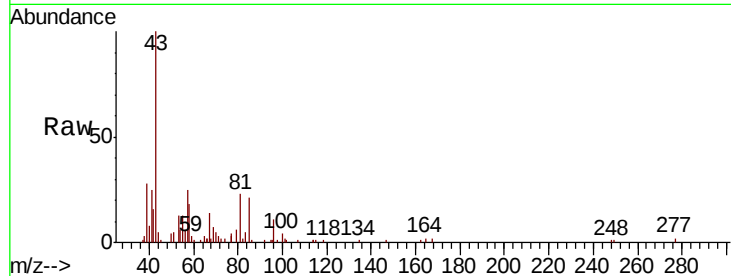




#50
4-Methyl-2-Pentanone
Concen: 0.082 ppbv
RT: 8.83 min Scan# 1834
Delta R.T. -0.01 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

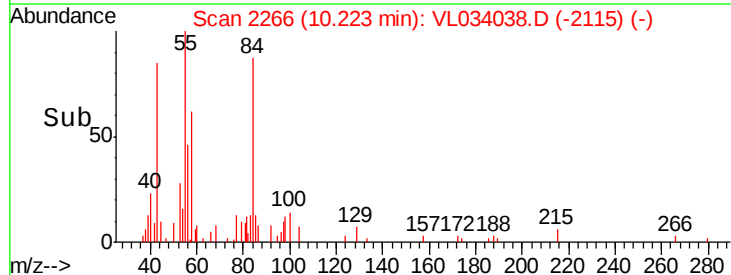
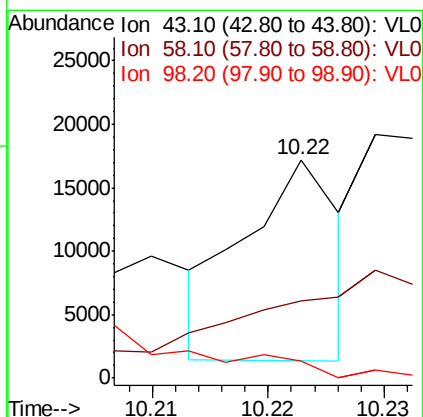
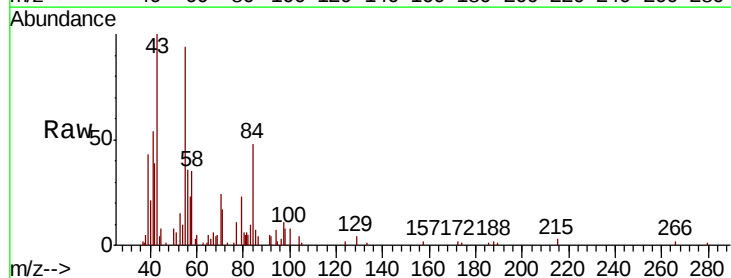
Instrument :
MSVOA_L
ClientSampleId :

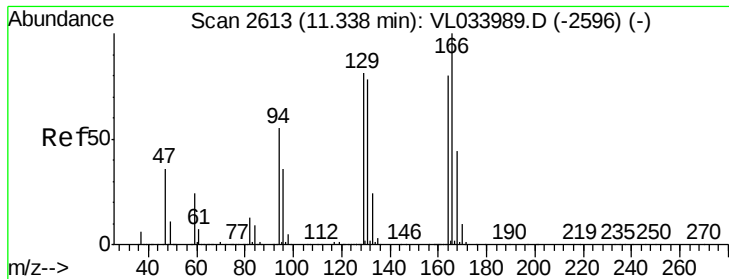
Tot Ion: 43 Resp: 18081
Ion Ratio Lower Upper
43 100
58 0.0 30.3 45.5#



#51
2-Hexanone
Concen: 0.051 ppbv
RT: 10.22 min Scan# 2266
Delta R.T. -0.02 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion: 43 Resp: 9019
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.4#
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.210 ppbv

RT: 11.32 min Scan# 2608

Delta R.T. -0.02 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:164 Resp: 19853

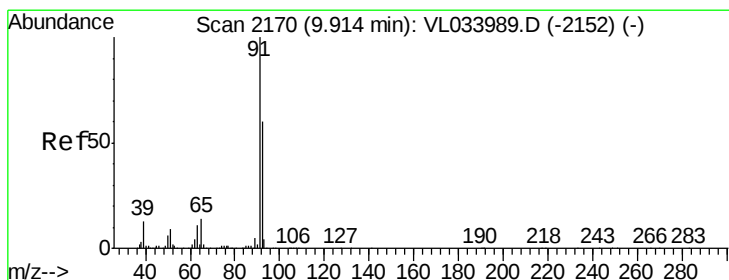
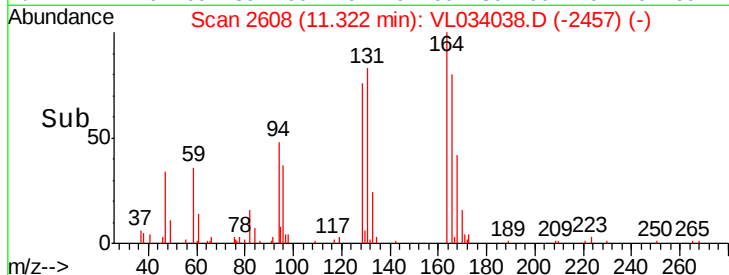
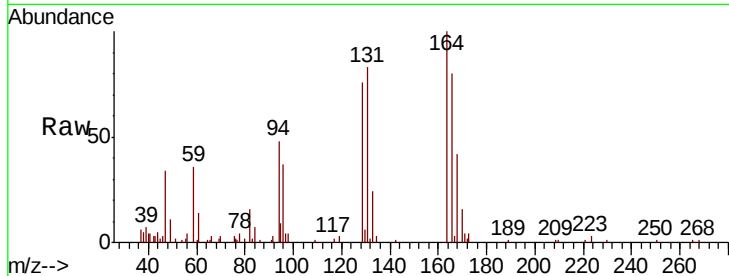
Ion Ratio Lower Upper

164 100

166 66.3 100.2 150.2#

129 72.1 81.0 121.6#

131 72.0 78.3 117.5#



#53

Toluene

Concen: 4.352 ppbv

RT: 9.90 min Scan# 2166

Delta R.T. -0.01 min

Lab File: VL034038.D

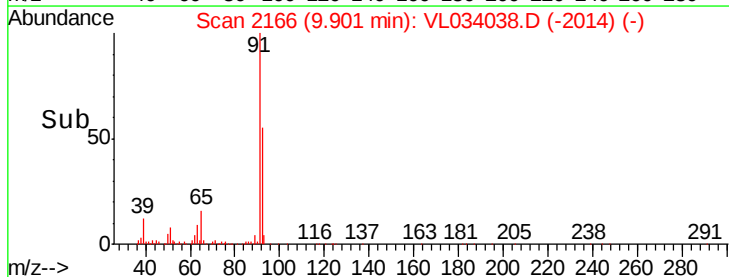
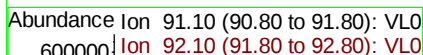
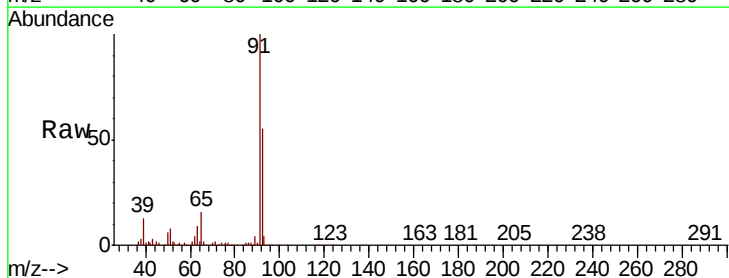
Acq: 17 Jul 2019 19:13

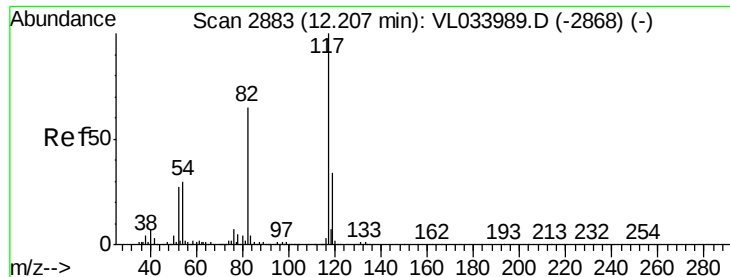
Tgt Ion: 91 Resp: 1096386

Ion Ratio Lower Upper

91 100

92 59.6 47.7 71.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2880

Delta R.T. -0.01 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

ClientSampleId :

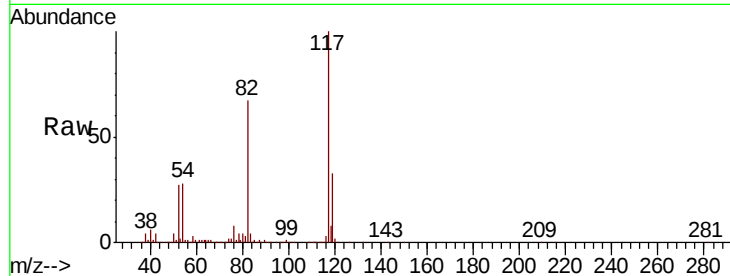
Tot Ion:117 Resp: 2801951

Ion Ratio Lower Upper

117 100

82 65.6 50.8 76.2

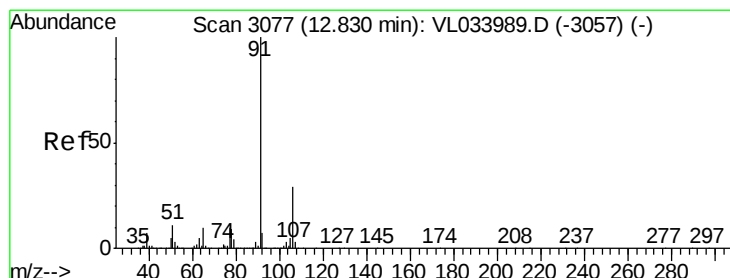
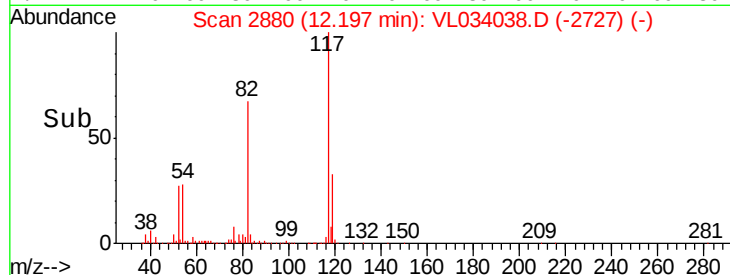
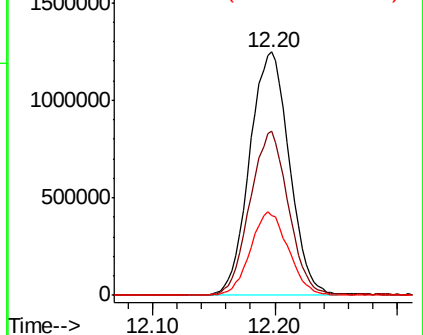
119 33.1 24.0 36.0



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: 0.603 ppbv

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034038.D

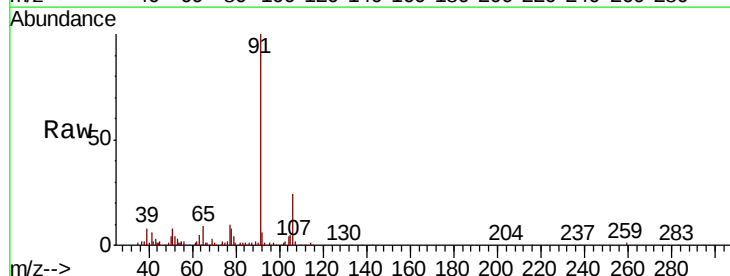
Acq: 17 Jul 2019 19:13

Tgt Ion: 91 Resp: 203097

Ion Ratio Lower Upper

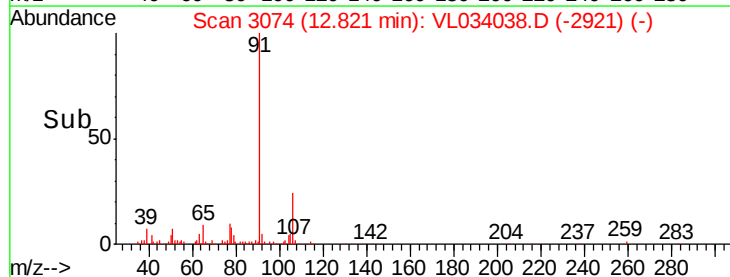
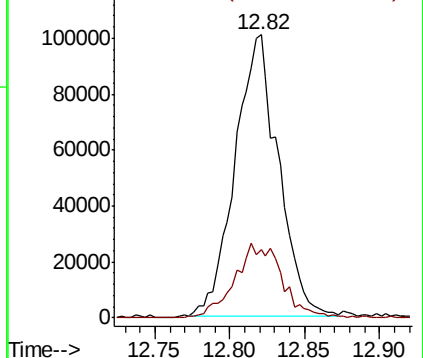
91 100

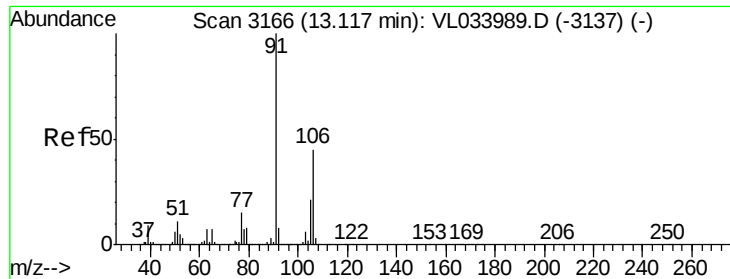
106 23.7 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

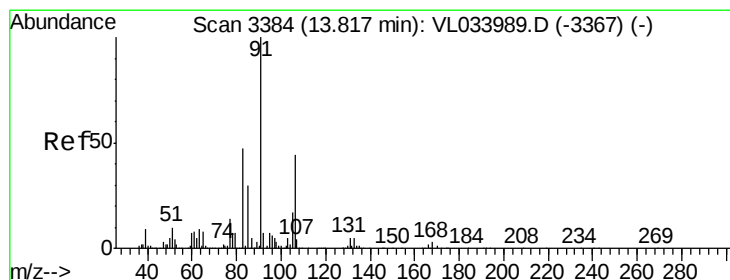
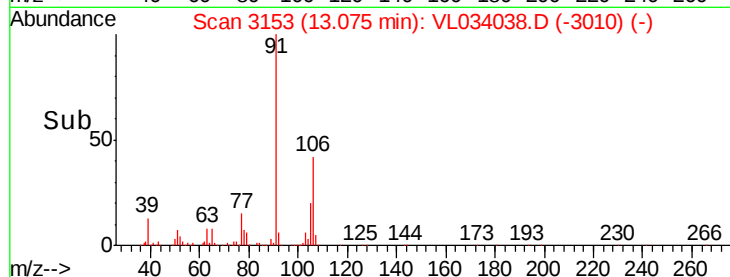
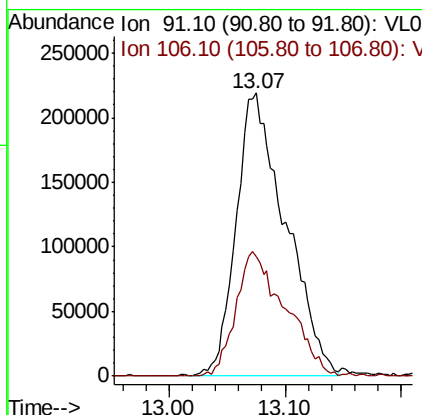
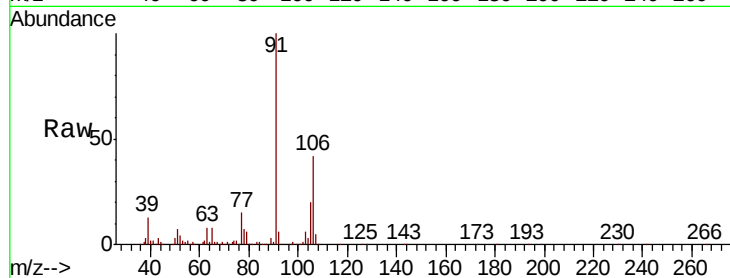




#59
m/p-Xylene
Concen: 2.105 ppbv
RT: 13.07 min Scan# 3153
Delta R.T. -0.04 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

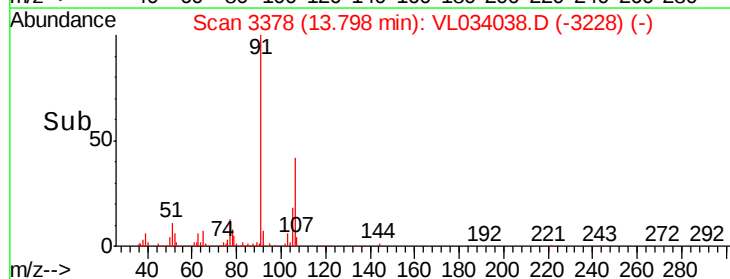
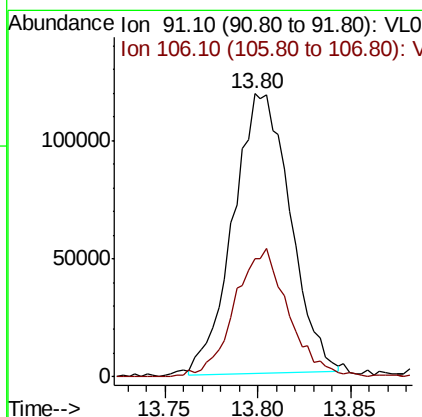
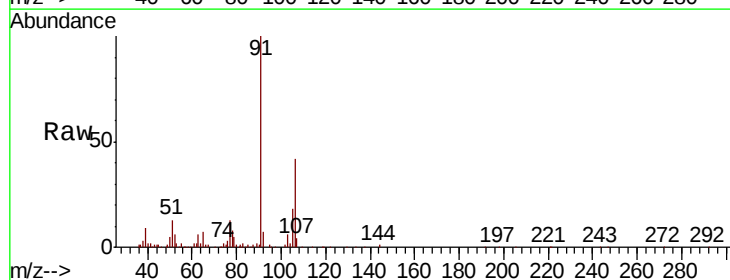
Instrument :
MSVOA_L
ClientSampleId :

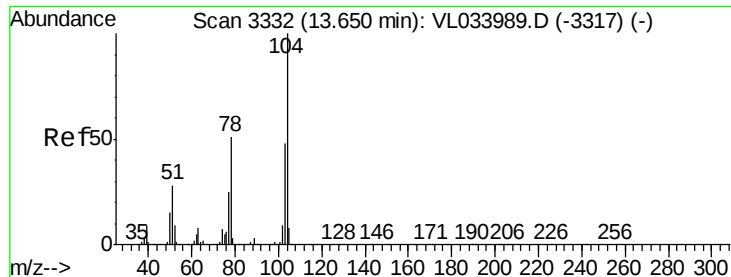
Tot Ion: 91 Resp: 642370
Ion Ratio Lower Upper
91 100
106 44.8 35.7 53.5



#60
o-Xylene
Concen: 0.834 ppbv
RT: 13.80 min Scan# 3378
Delta R.T. -0.02 min
Lab File: VL034038.D
Acq: 17 Jul 2019 19:13

Tgt Ion: 91 Resp: 254441
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.7





#61

Stvrene

Concen: 0.290 ppbv

RT: 13.64 min Scan# 3330

Delta R.T. -0.01 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

ClientSampleId :

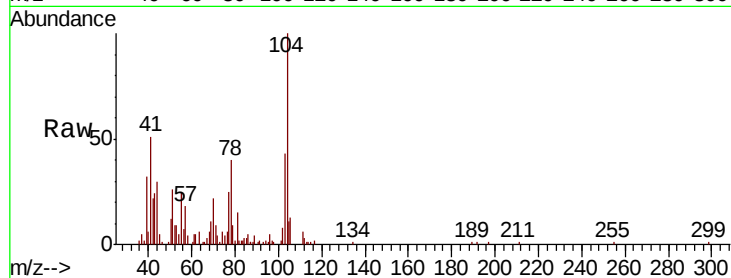
Tot Ion:104 Resp: 58663

Ion Ratio Lower Upper

104 100

78 64.7 43.9 65.9

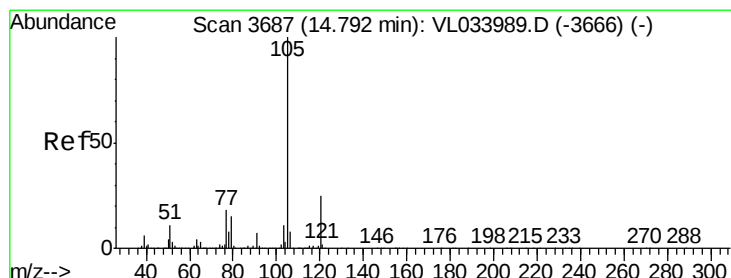
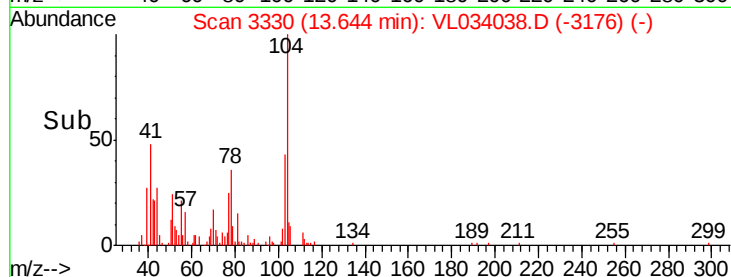
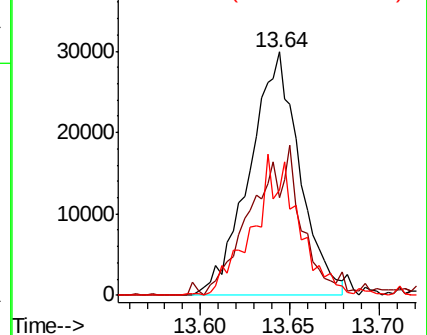
103 53.5 38.1 57.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.231 ppbv

RT: 14.78 min Scan# 3683

Delta R.T. -0.01 min

Lab File: VL034038.D

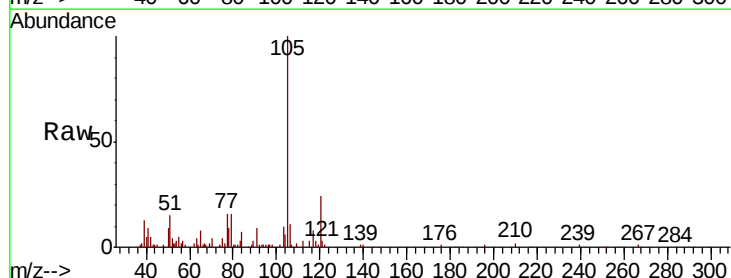
Acq: 17 Jul 2019 19:13

Tgt Ion:105 Resp: 108399

Ion Ratio Lower Upper

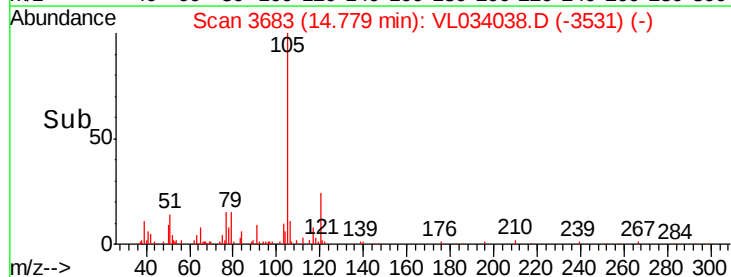
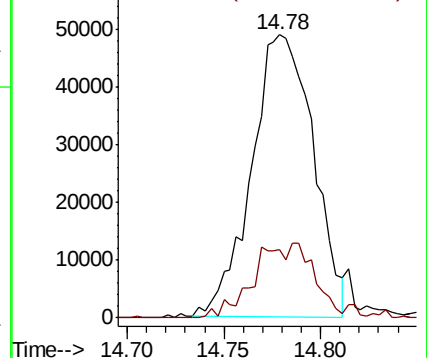
105 100

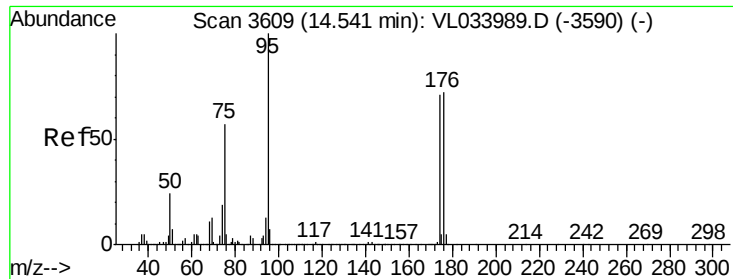
120 27.5 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

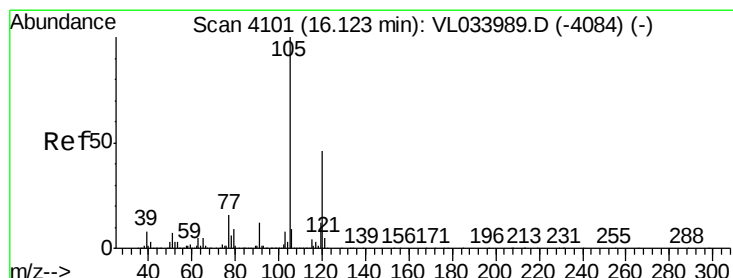
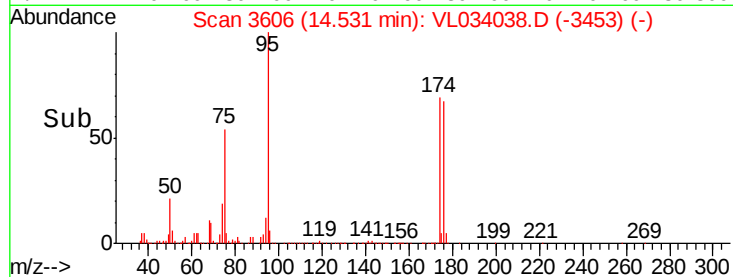
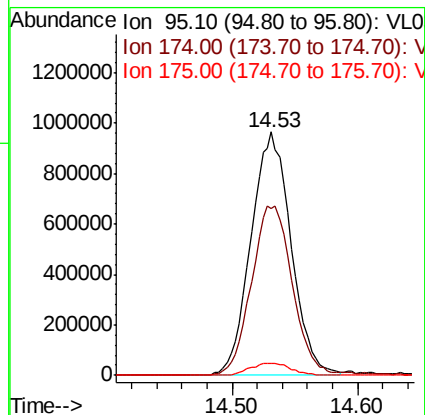
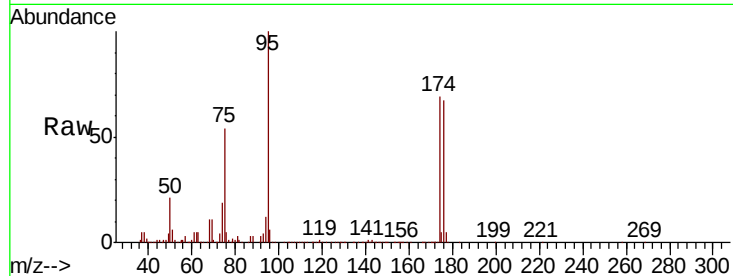




#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.944 ppbv
 RT: 14.53 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL034038.D
 Acq: 17 Jul 2019 19:13

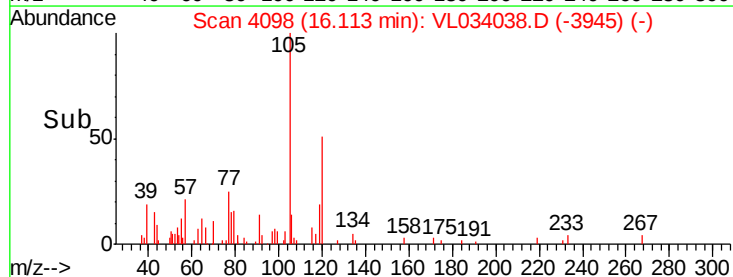
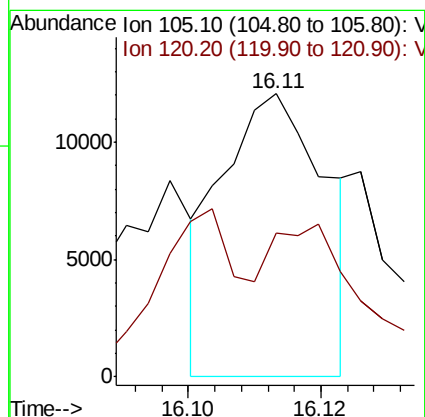
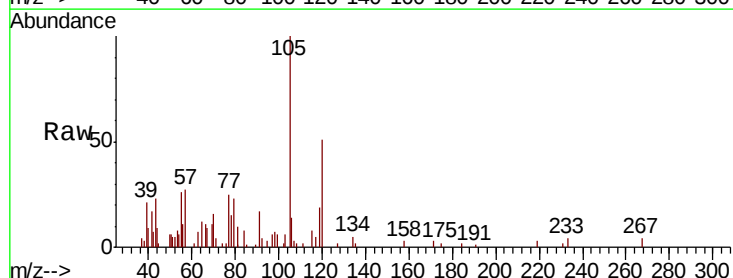
Instrument :
 MSVOA_L
 ClientSampleId :

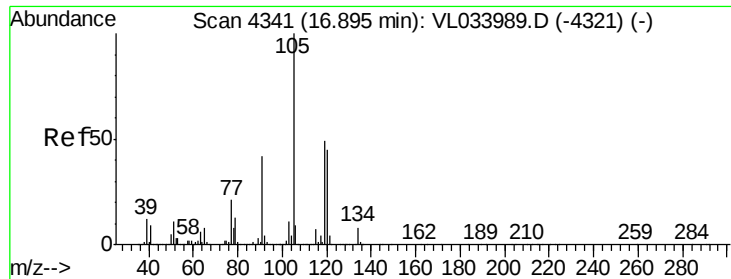
Tot Ion: 95 Resp: 2137475
 Ion Ratio Lower Upper
 95 100
 174 72.5 60.5 90.7
 175 5.2 4.0 6.0



#73
 1,3,5-Trimethylbenzene
 Concen: 0.036 ppbv
 RT: 16.11 min Scan# 4098
 Delta R.T. -0.01 min
 Lab File: VL034038.D
 Acq: 17 Jul 2019 19:13

Tgt Ion:105 Resp: 13120
 Ion Ratio Lower Upper
 105 100
 120 30.2 36.4 54.6#





#74

1,2,4-Trimethylbenzene

Concen: 0.133 ppbv

RT: 16.88 min Scan# 4336

Delta R.T. -0.02 min

Lab File: VL034038.D

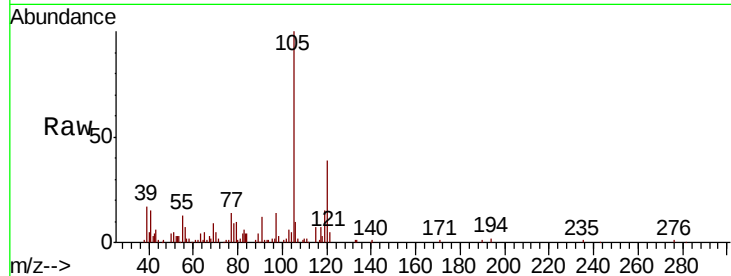
Acq: 17 Jul 2019 19:13

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	53763
Ion Ratio	Lower	Upper
105	100	
120	36.5	36.2 54.2
91	9.4	34.3 51.5#
77	10.4	17.1 25.7#

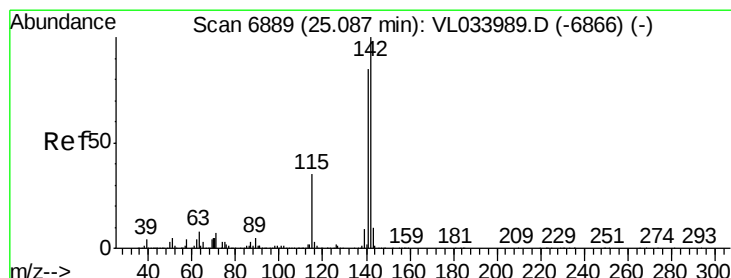
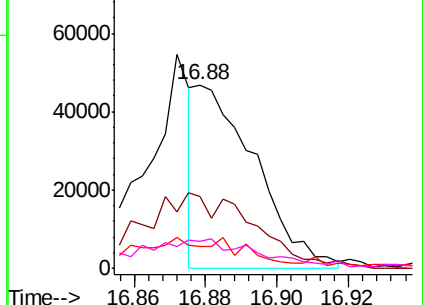
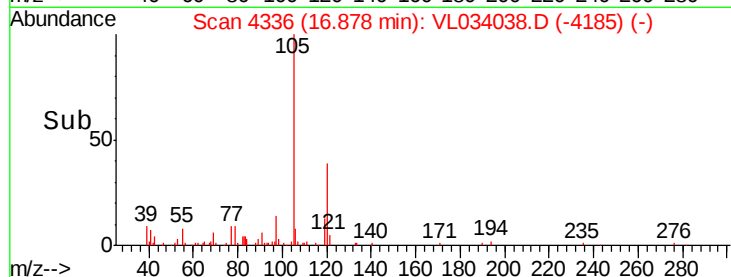


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#80

Naphthalene, 2-methyl-

Concen: 0.054 ppbv

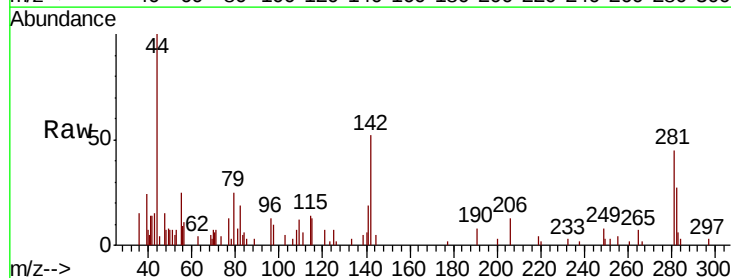
RT: 25.09 min Scan# 6889

Delta R.T. 0.00 min

Lab File: VL034038.D

Acq: 17 Jul 2019 19:13

Tgt Ion:142	Resp:	6726
Ion Ratio	Lower	Upper
142	100	
141	95.5	68.2 102.2
115	21.1	29.9 44.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

