

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034039.D
 Acq On : 17 Jul 2019 19:54
 Operator : SY/AP
 Sample : K3804-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 18 04:39:31 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	1055658	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2787948	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	2692995	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2116645	9.22	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.13	85	6136906	28.171	ppbv 96
3) Chlorodifluoromethane	2.97	51	316886	2.431	ppbv # 74
4) Chloromethane	3.13	50	886118	11.822	ppbv # 43
5) Vinyl Chloride	3.26	62	9561	0.113	ppbv # 88
7) Chloroethane	3.13	64	4447697	147.645	ppbv 99
8) Dichlorotetrafluoroethane	3.13	85	6136906	28.893	ppbv # 15
9) Propene	3.01	41	2812909	58.657	ppbv 92
10) Heptane	8.20	43	102760	0.856	ppbv 97
11) Trichlorofluoromethane	3.98	101	634953	2.592	ppbv 94
12) 1,1,2-Trichlorotrifluoroet	4.52	101	6859	0.040	ppbv # 13
13) Ethanol	3.67	45	22248340	1493.408	ppbv 96
15) Acetone	3.87	43	12147519	68.441	ppbv # 88
16) 1,3-Butadiene	3.32	39	2086841	33.297	ppbv # 27
17) tert-Butyl alcohol	4.37	59	38438	0.272	ppbv # 73
19) Isopropyl Alcohol	4.06	45	4489082	37.679	ppbv # 1
20) Methylene Chloride	4.39	84	62848	0.812	ppbv 91
21) Allyl Chloride	4.43	41	81816	0.739	ppbv # 1
23) Vinyl Acetate	5.11	43	23557	0.133	ppbv # 1
25) Ethyl Acetate	5.73	43	547662	2.256	ppbv 98
26) Hexane	5.74	57	206020	1.855	ppbv # 76
27) Carbon Disulfide	4.59	76	10760178	56.976	ppbv 95
29) Chloroform	5.82	83	163307	0.782	ppbv 89
30) Cyclohexane	7.20	84	68315	0.796	ppbv # 79
34) 2-Butanone	5.29	43	1323404	8.969	ppbv 98
35) Carbon Tetrachloride	7.09	117	10463	0.047	ppbv # 74
36) Benzene	6.97	78	545434	2.500	ppbv 94
38) Trichloroethene	7.92	130	32476	0.335	ppbv # 86
39) 1,2-Dichloropropane	7.25	63	686794	8.466	ppbv # 24
40) 1,4-Dioxane	7.91	88	1242	0.033	ppbv # 1
41) Tetrahydrofuran	6.12	42	94233	1.302	ppbv # 72
44) 2,2,4-Trimethylpentane	7.95	57	57816	0.154	ppbv # 21
50) 4-Methyl-2-Pentanone	8.83	43	18613	0.085	ppbv # 37
51) 2-Hexanone	10.22	43	9590	0.054	ppbv # 27
52) Tetrachloroethene	11.33	164	48924	0.521	ppbv # 82
53) Toluene	9.90	91	1174687	4.704	ppbv 99
58) Ethyl Benzene	12.82	91	213618	0.660	ppbv 96
59) m/p-Xylene	13.08	91	431891	1.473	ppbv # 64
60) o-Xylene	13.80	91	122430	0.417	ppbv # 32
61) Styrene	13.63	104	42031	0.217	ppbv # 56
62) Isopropylbenzene	14.78	105	121200	0.269	ppbv 98
74) 1,2,4-Trimethylbenzene	16.87	105	84602	0.218	ppbv # 74

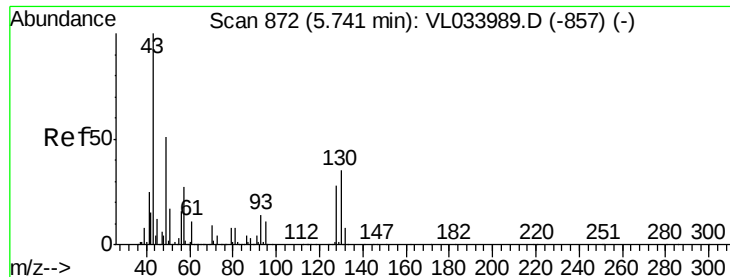
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
Data File : VL034039.D
Acq On : 17 Jul 2019 19:54
Operator : SY/AP
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Instrument :
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
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)
80) Naphthalene,2-methyl-	25.10	142	4463	0.038	ppbv	91

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

ClientSampled :

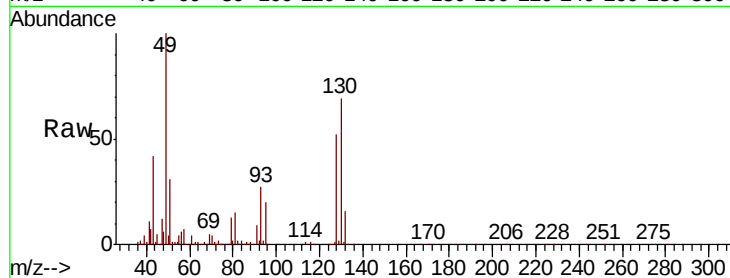
Tot Ion: 49 Resp: 1055658

Ion Ratio Lower Upper

49 100

128 55.4 27.9 83.6

130 71.1 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

5.73

800000

600000

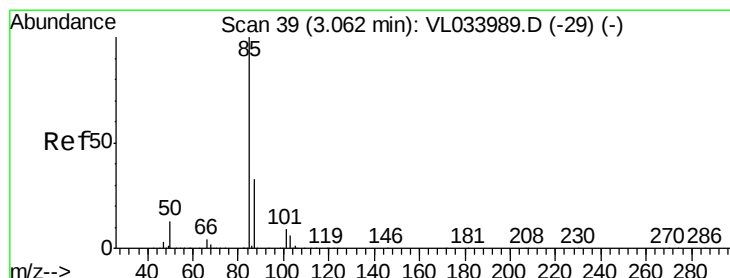
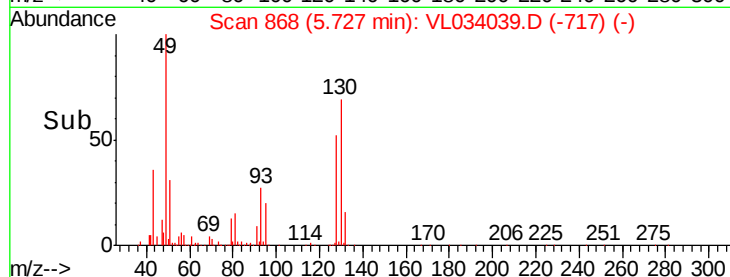
400000

200000

0

5.65 5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 28.171 ppbv

RT: 3.13 min Scan# 60

Delta R.T. 0.07 min

Lab File: VL034039.D

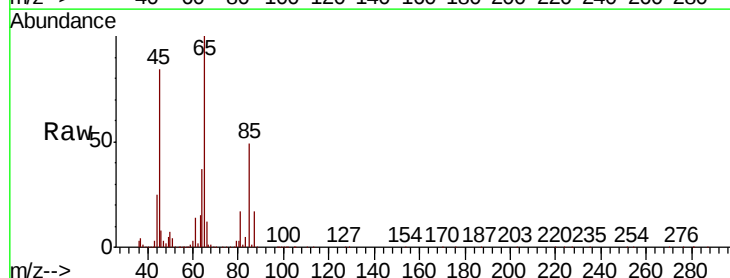
Acq: 17 Jul 2019 19:54

Tgt Ion: 85 Resp: 6136906

Ion Ratio Lower Upper

85 100

87 35.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

4000000

3000000

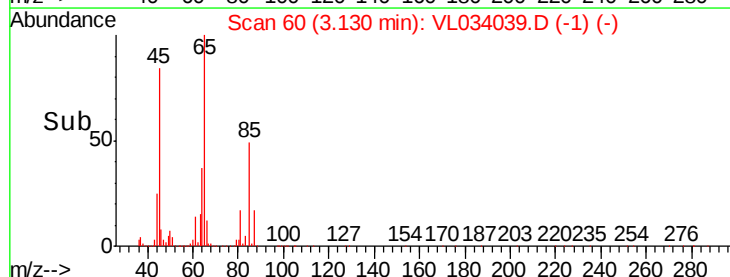
2000000

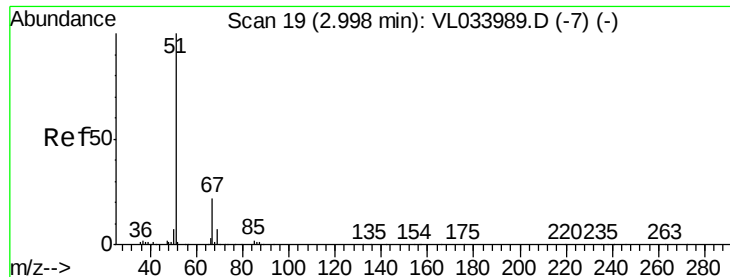
1000000

0

3.05 3.10 3.15 3.20

Time-->

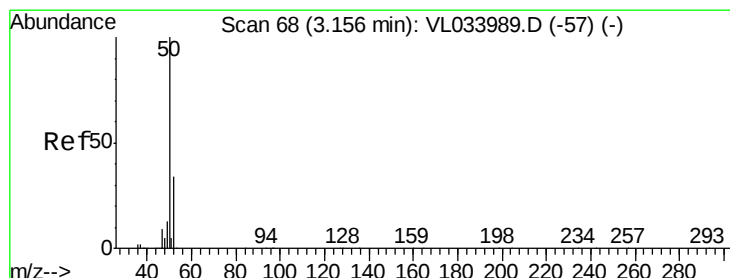
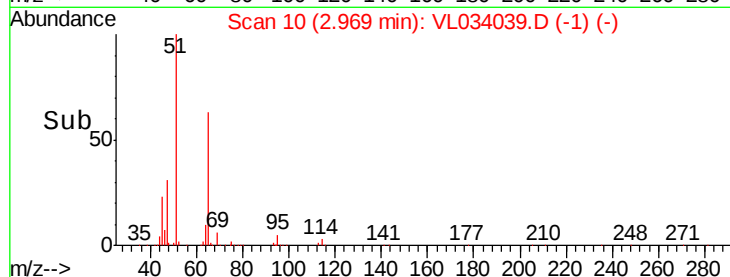
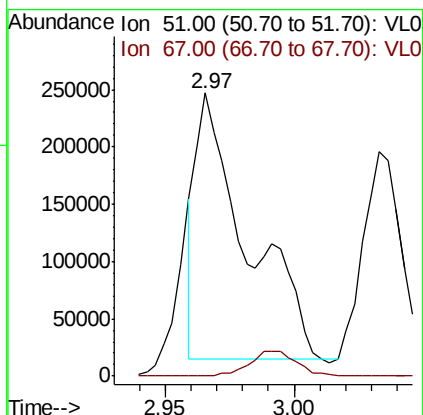
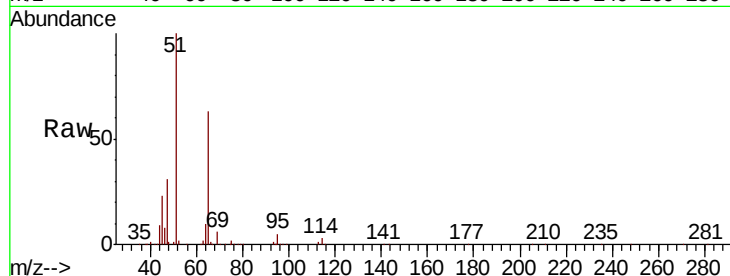




#3
 Chlorodifluoromethane
 Concen: 2.431 ppbv
 RT: 2.97 min Scan# 10
 Delta R.T. -0.03 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

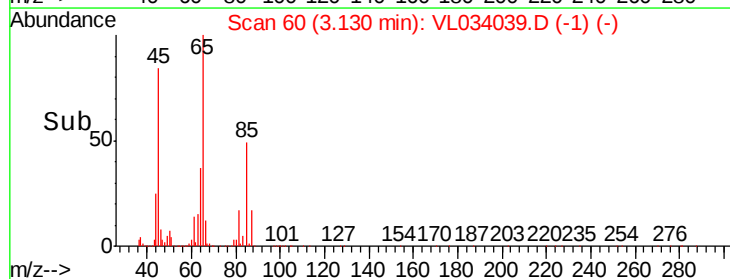
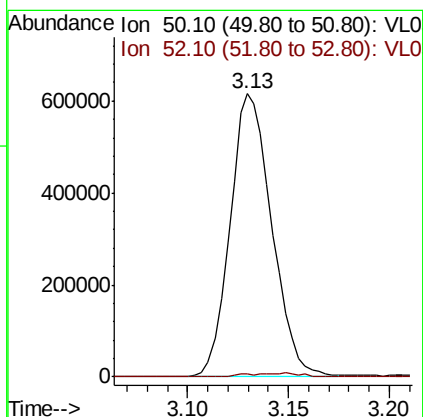
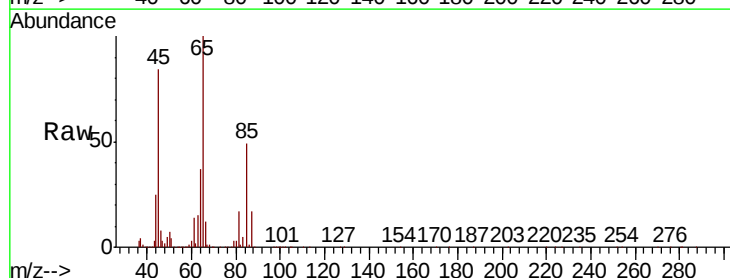
Instrument :
 MSVOA_L
 ClientSampleId :

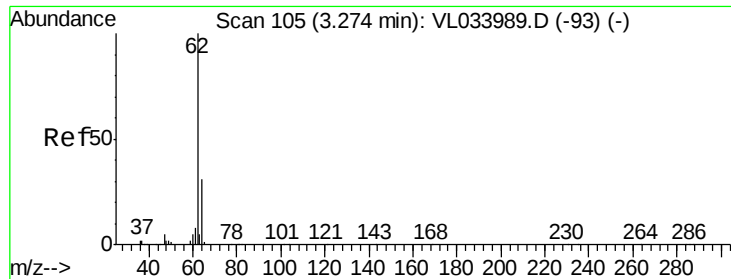
Tot Ion: 51 Resp: 316886
 Ion Ratio Lower Upper
 51 100
 67 9.1 17.3 25.9#



#4
 Chloromethane
 Concen: 11.822 ppbv
 RT: 3.13 min Scan# 60
 Delta R.T. -0.03 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

Tgt Ion: 50 Resp: 886118
 Ion Ratio Lower Upper
 50 100
 52 1.3 27.4 41.0#





#5

Vinyl Chloride

Concen: 0.113 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

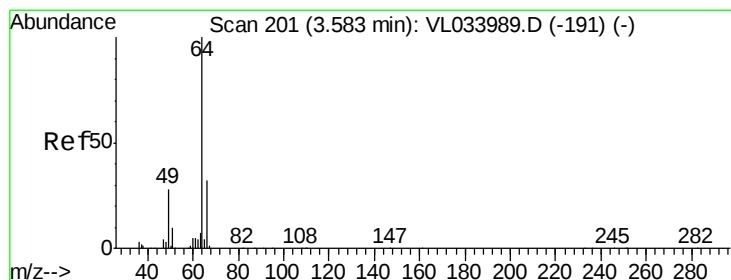
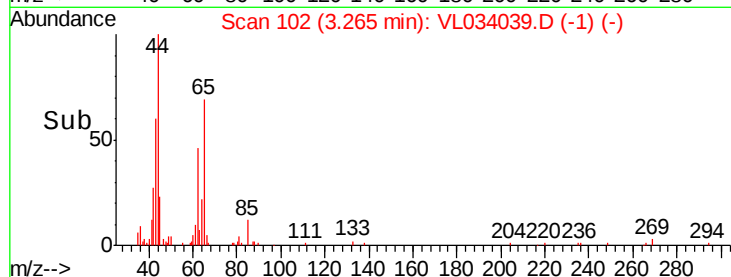
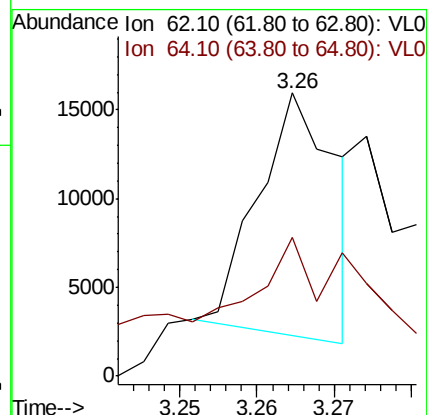
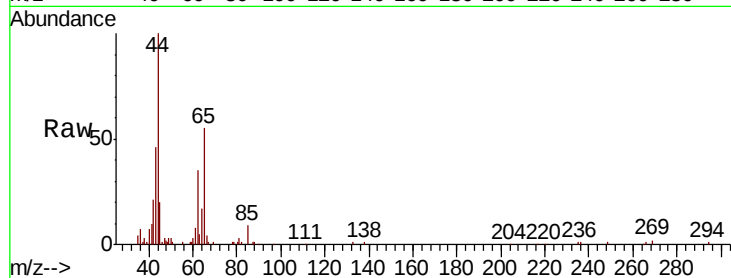
ClientSampleId :

Tot Ion: 62 Resp: 9561

Ion Ratio Lower Upper

62 100

64 37.1 24.4 36.6#



#7

Chloroethane

Concen: 147.645 ppbv

RT: 3.13 min Scan# 60

Delta R.T. -0.45 min

Lab File: VL034039.D

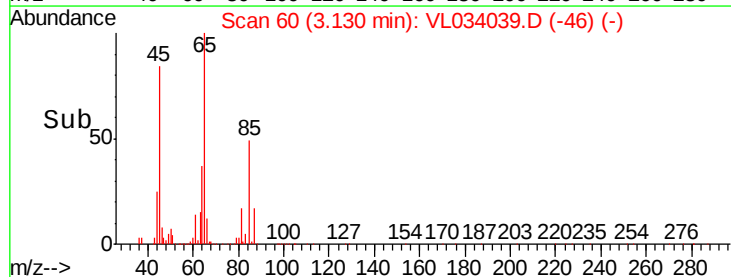
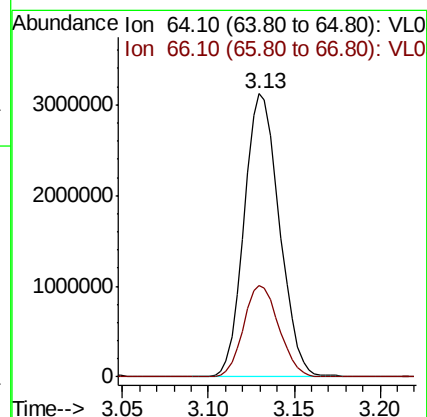
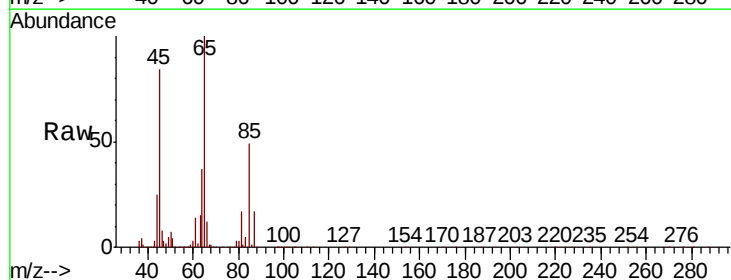
Acq: 17 Jul 2019 19:54

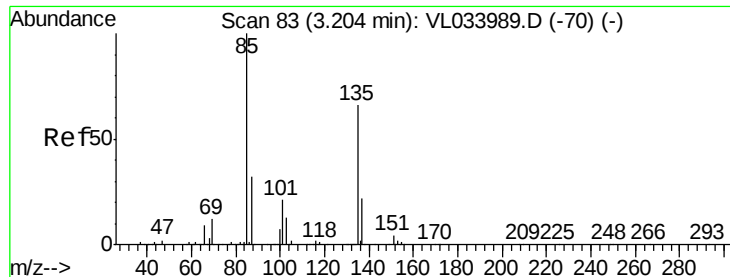
Tgt Ion: 64 Resp: 4447697

Ion Ratio Lower Upper

64 100

66 32.3 25.3 37.9





#8

Dichlorotetrafluoroethane

Concen: 28.893 ppbv

RT: 3.13 min Scan# 60

Delta R.T. -0.07 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

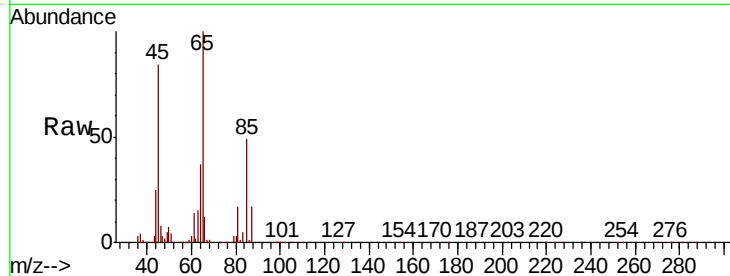
ClientSampleId :

Tot Ion: 85 Resp: 6136906

Ion Ratio Lower Upper

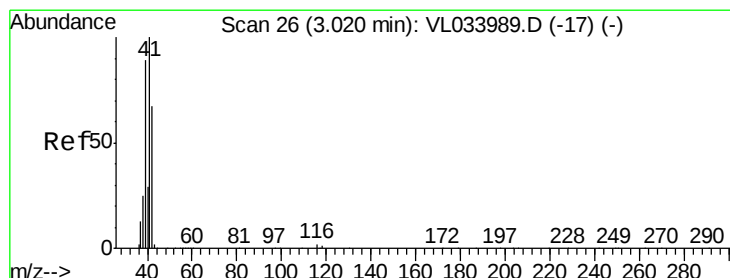
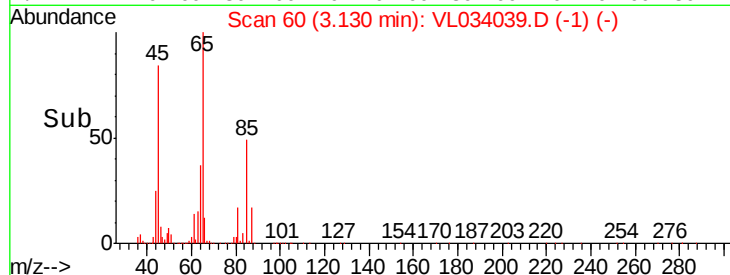
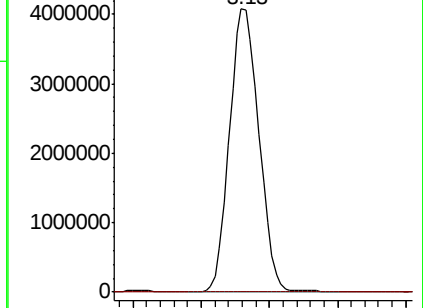
85 100

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



#9

Propene

Concen: 58.657 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034039.D

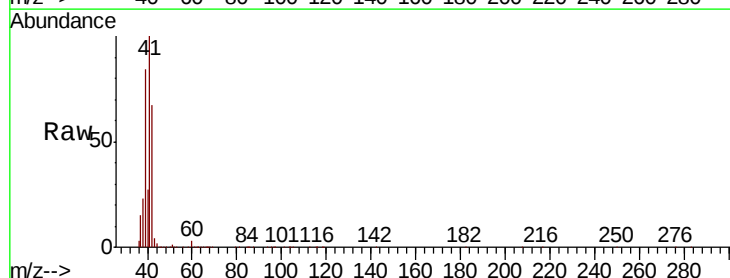
Acq: 17 Jul 2019 19:54

Tgt Ion: 41 Resp: 2812909

Ion Ratio Lower Upper

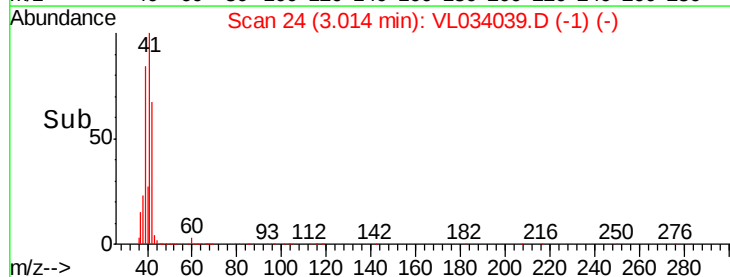
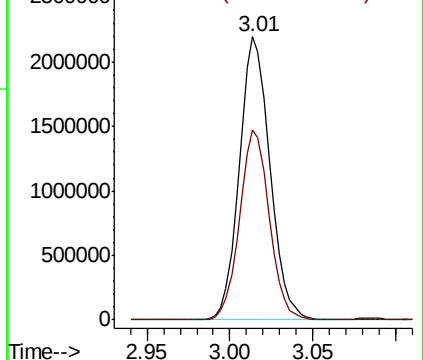
41 100

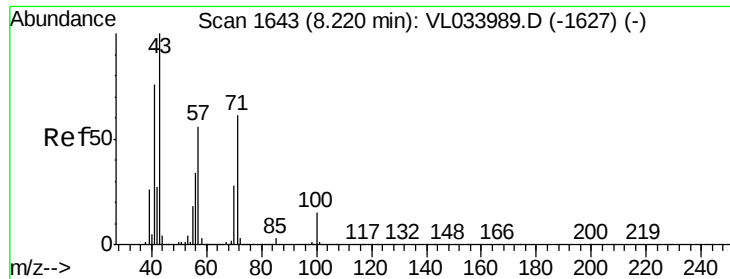
42 65.1 57.1 85.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.856 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. -0.02 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

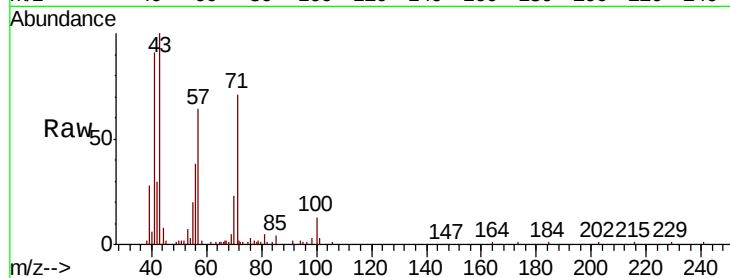
ClientSampleId :

Tot Ion: 43 Resp: 102760

Ion Ratio Lower Upper

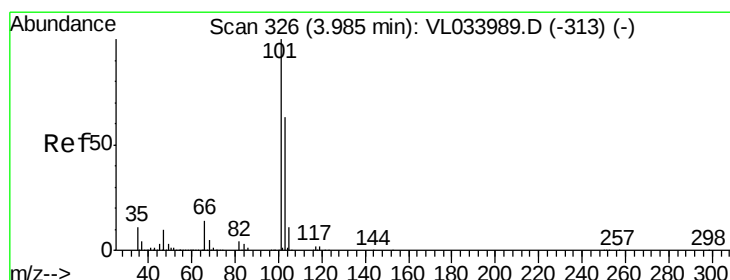
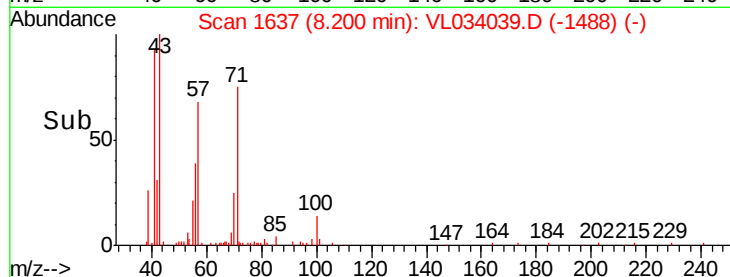
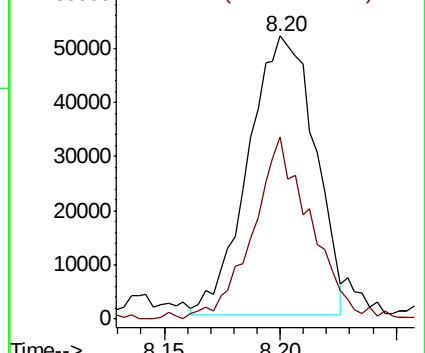
43 100

57 57.7 44.6 66.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 2.592 ppbv

RT: 3.98 min Scan# 324

Delta R.T. -0.01 min

Lab File: VL034039.D

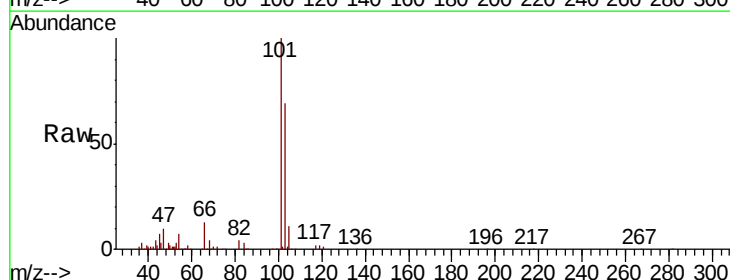
Acq: 17 Jul 2019 19:54

Tgt Ion: 101 Resp: 634953

Ion Ratio Lower Upper

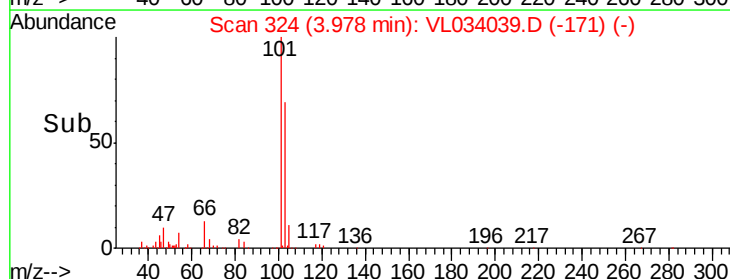
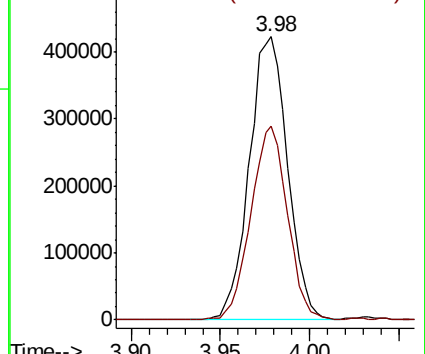
101 100

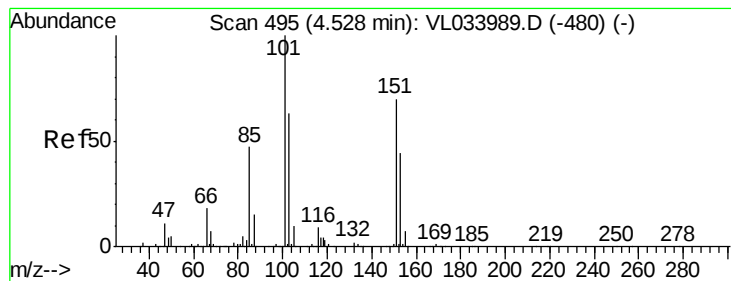
103 68.5 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.52 min Scan# 493

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

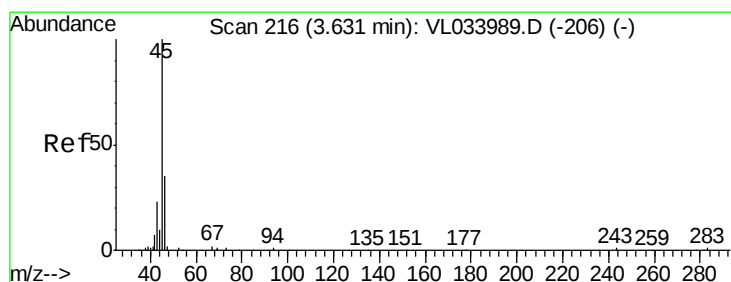
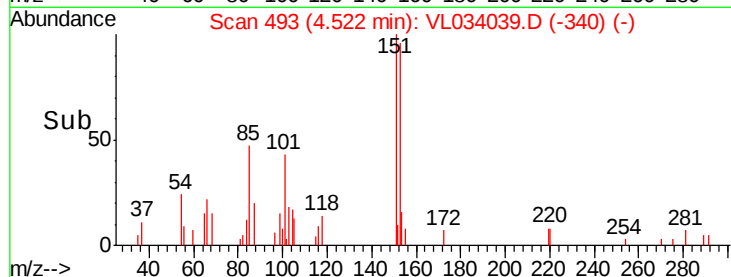
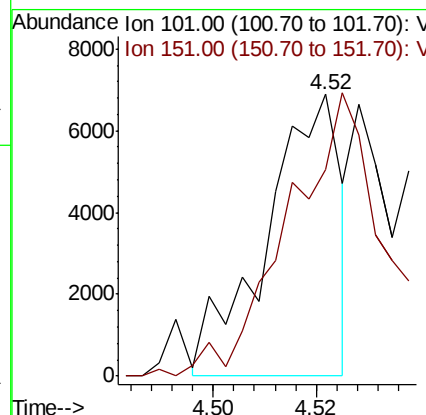
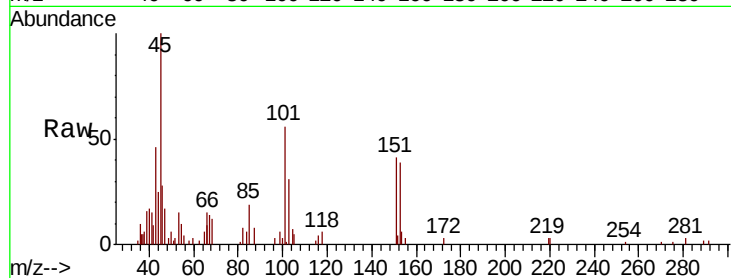
ClientSampleId :

Tot Ion:101 Resp: 6859

Ion Ratio Lower Upper

101 100

151 0.0 59.0 88.4#



#13

Ethanol

Concen: 1493.408 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.04 min

Lab File: VL034039.D

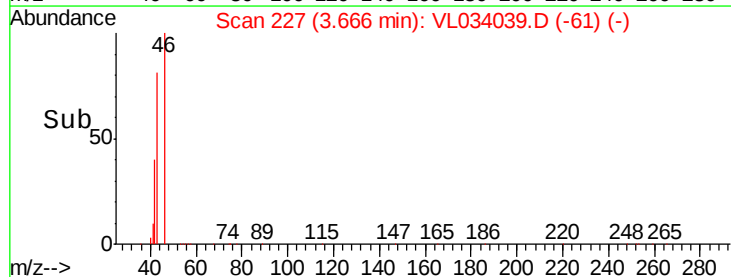
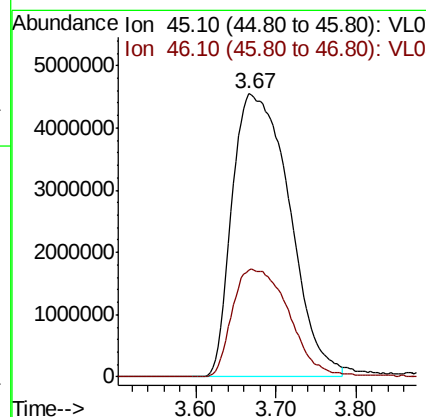
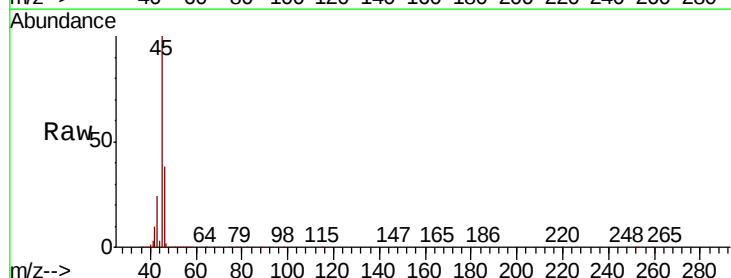
Acq: 17 Jul 2019 19:54

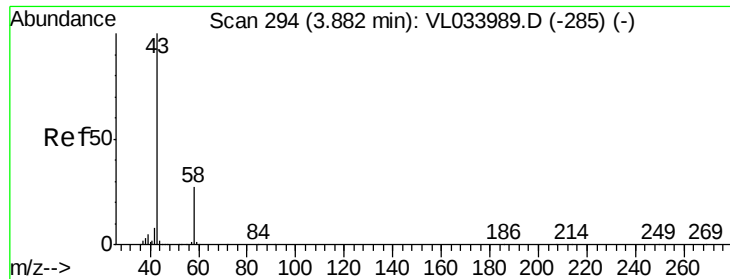
Tgt Ion: 45 Resp:22248340

Ion Ratio Lower Upper

45 100

46 38.1 16.2 64.6

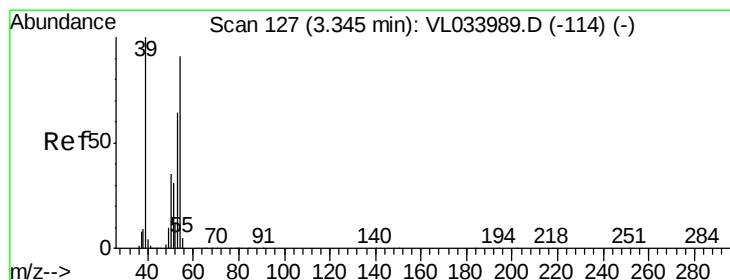
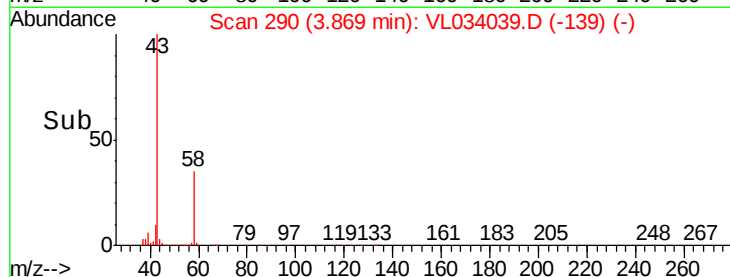
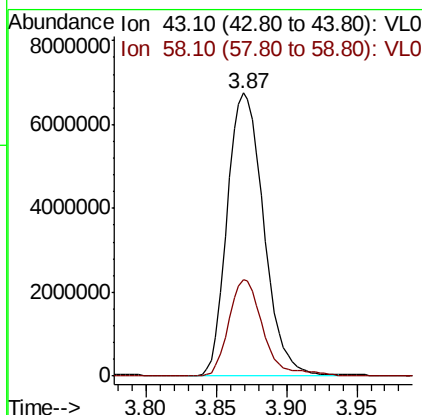
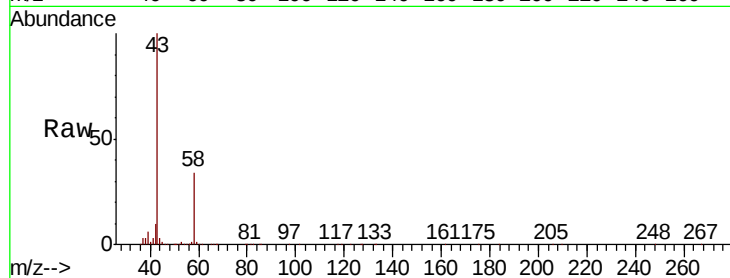




#15
Acetone
Concen: 68.441 ppbv
RT: 3.87 min Scan# 290
Delta R.T. -0.01 min
Lab File: VL034039.D
Acq: 17 Jul 2019 19:54

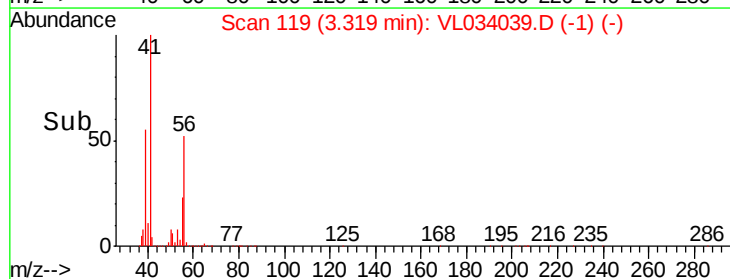
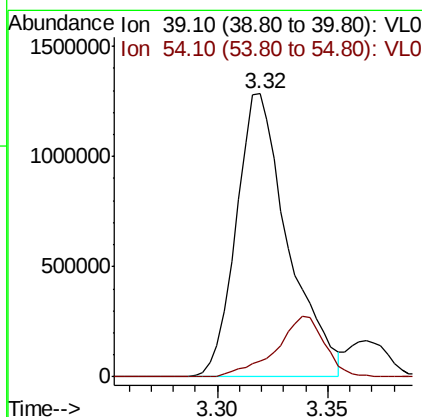
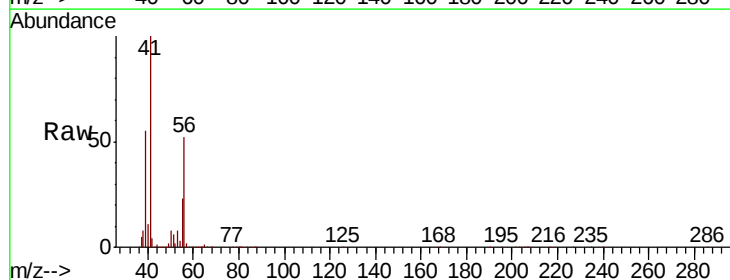
Instrument :
MSVOA_L
ClientSampleId :

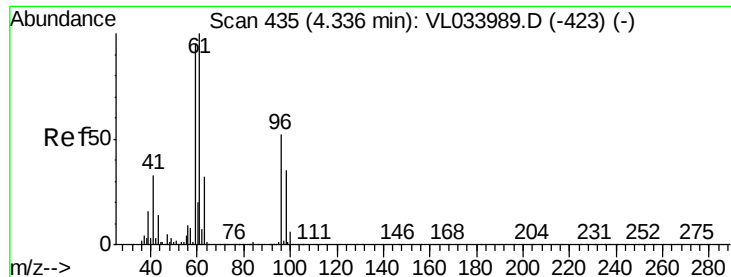
Tot Ion: 43 Resp:12147519
Ion Ratio Lower Upper
43 100
58 32.7 21.4 32.0#



#16
1,3-Butadiene
Concen: 33.297 ppbv
RT: 3.32 min Scan# 119
Delta R.T. -0.03 min
Lab File: VL034039.D
Acq: 17 Jul 2019 19:54

Tgt Ion: 39 Resp: 2086841
Ion Ratio Lower Upper
39 100
54 20.4 71.4 107.2#



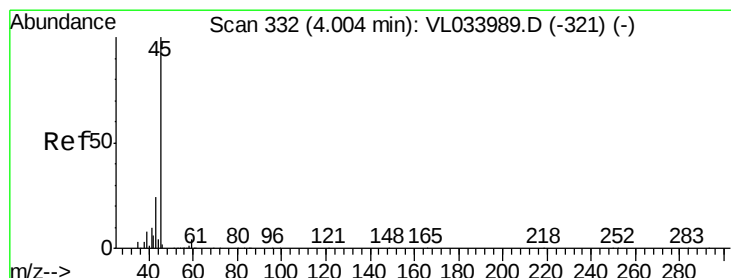
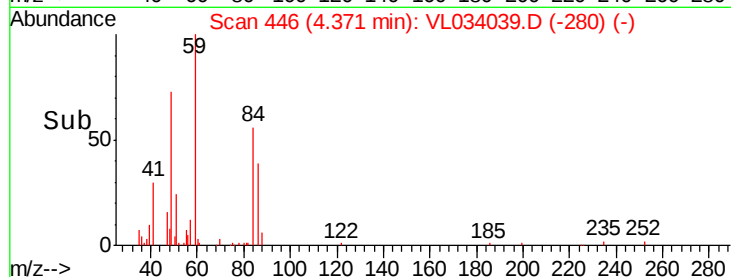
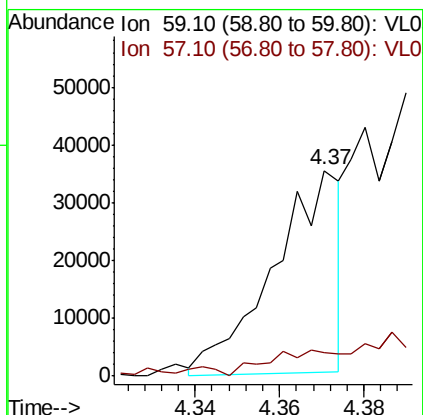
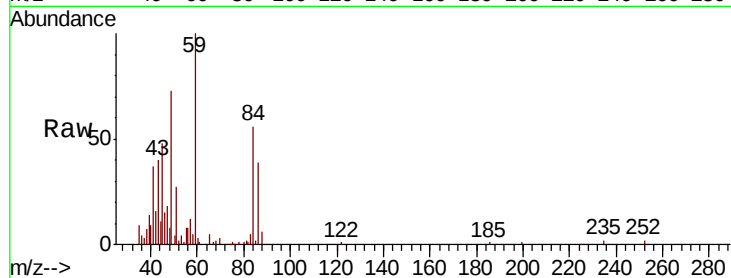


#17

tert-Butyl alcohol
Concen: 0.272 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.04 min
Lab File: VL034039.D
Acq: 17 Jul 2019 19:54

Instrument :
MSVOA_L
ClientSampled :

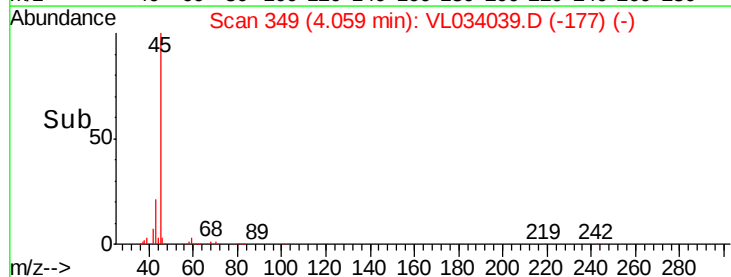
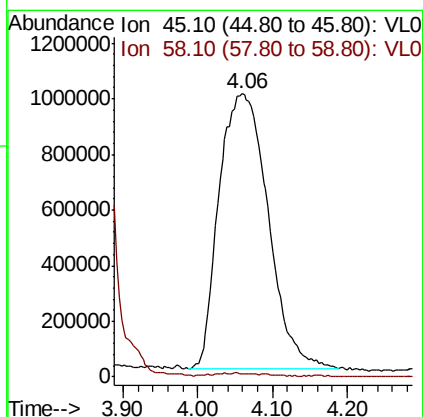
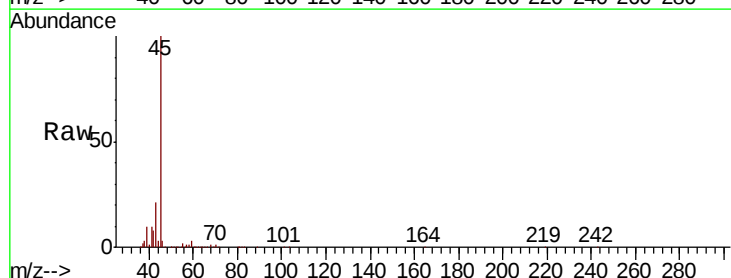
Tot Ion: 59 Resp: 38438
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

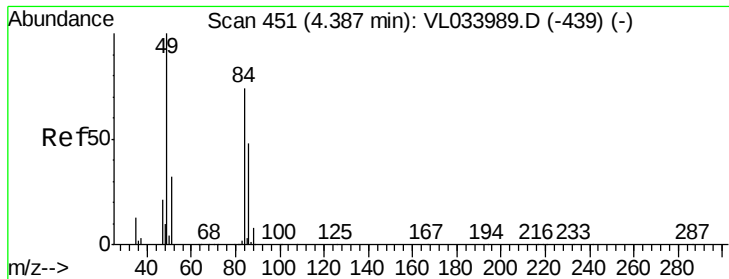


#19

Isopropyl Alcohol
Concen: 37.679 ppbv
RT: 4.06 min Scan# 349
Delta R.T. 0.05 min
Lab File: VL034039.D
Acq: 17 Jul 2019 19:54

Tgt Ion: 45 Resp: 4489082
Ion Ratio Lower Upper
45 100
58 88.5 1.7 2.5#





#20

Methylene Chloride

Concen: 0.812 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.00 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 62848

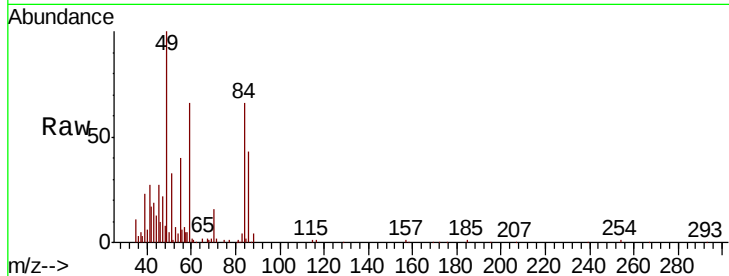
Ion Ratio Lower Upper

84 100

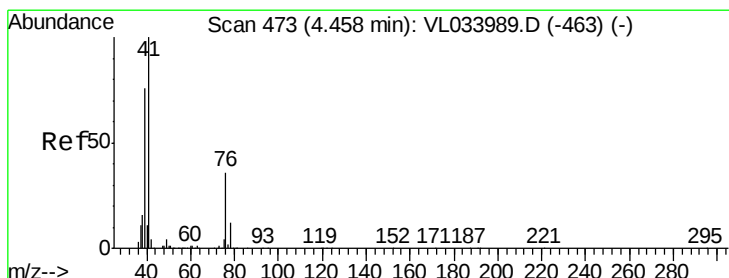
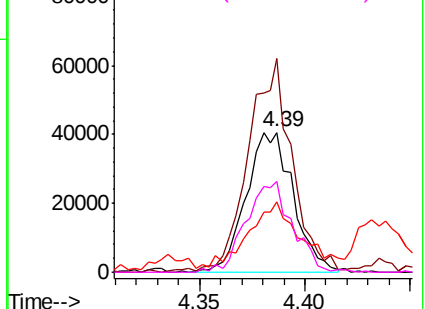
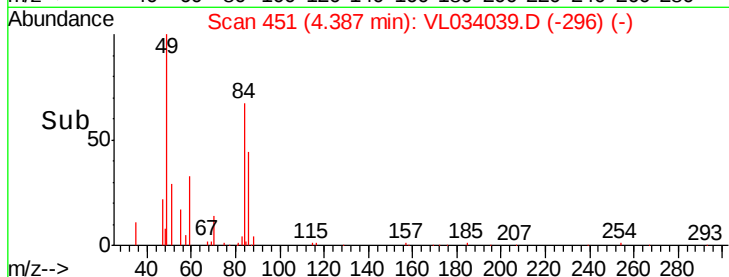
49 151.1 107.6 161.4

51 40.2 35.0 52.6

86 65.2 52.1 78.1



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



#21

Allyl Chloride

Concen: 0.739 ppbv

RT: 4.43 min Scan# 466

Delta R.T. -0.02 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

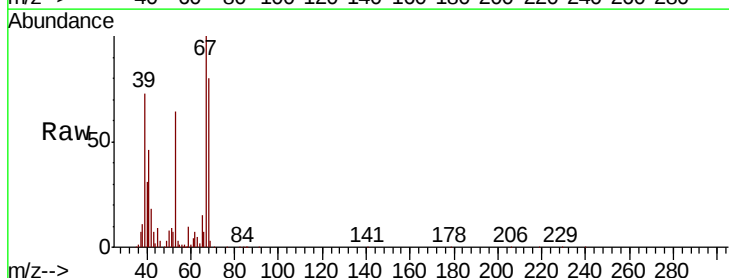
Tgt Ion: 41 Resp: 81816

Ion Ratio Lower Upper

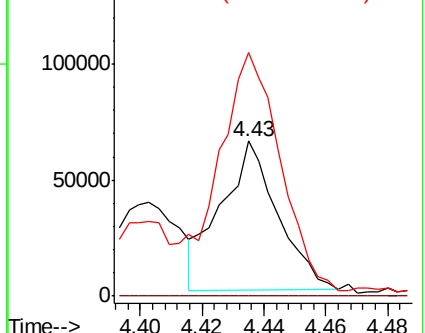
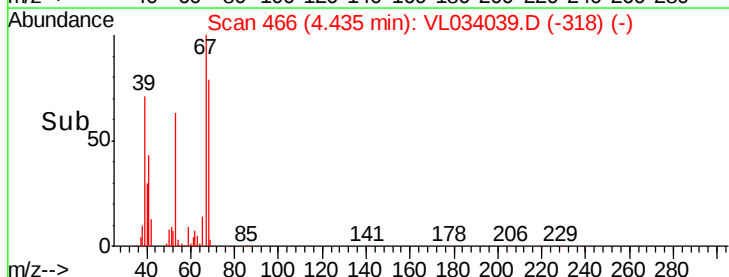
41 100

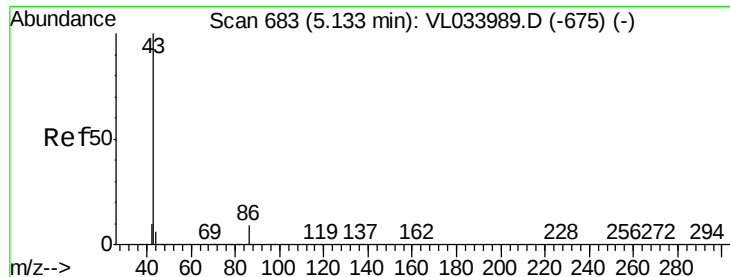
76 0.0 26.8 40.2#

39 239.8 63.1 94.7#



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





#23

Vinyl Acetate

Concen: 0.133 ppbv

RT: 5.11 min Scan# 675

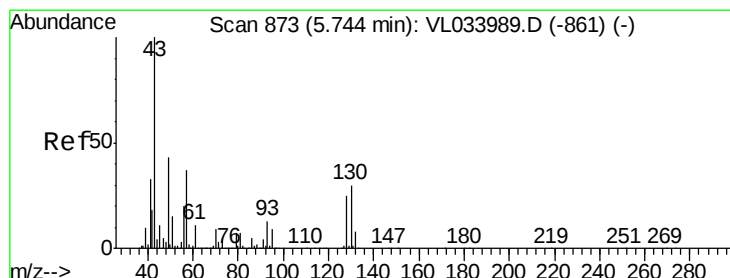
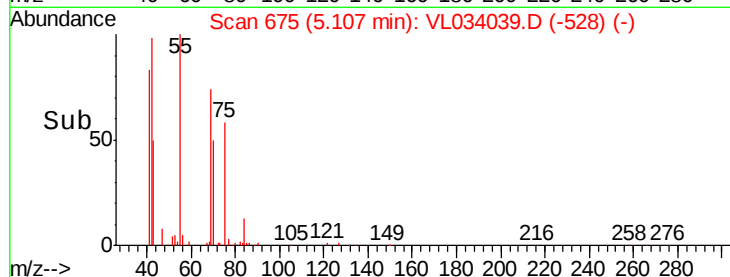
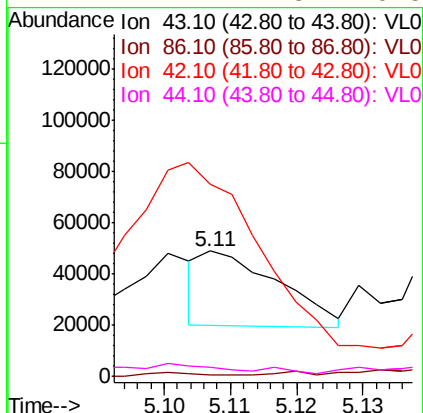
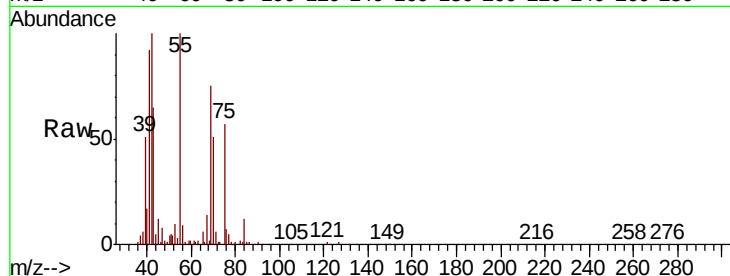
Delta R.T. -0.03 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	23557
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	234.8	8.3	12.5#
44	4.7	4.3	6.5



#25

Ethyl Acetate

Concen: 2.256 ppbv

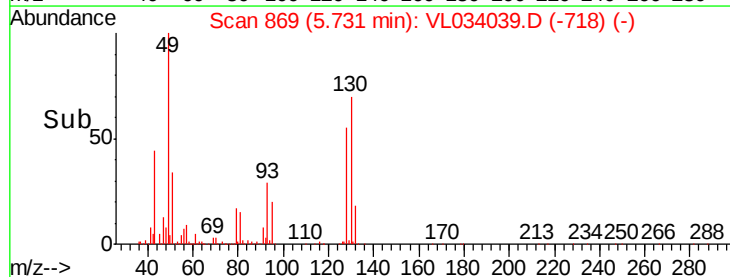
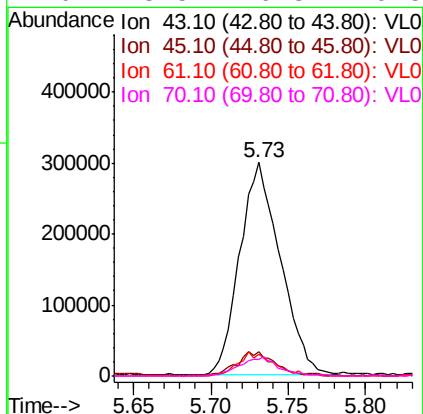
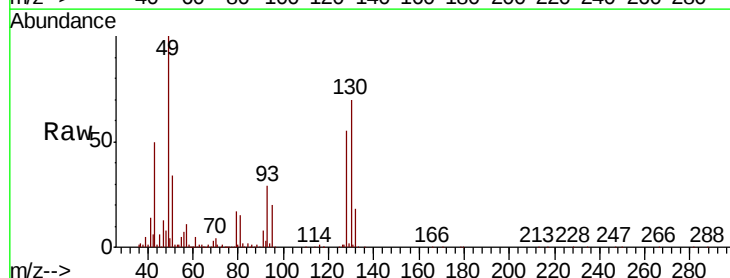
RT: 5.73 min Scan# 869

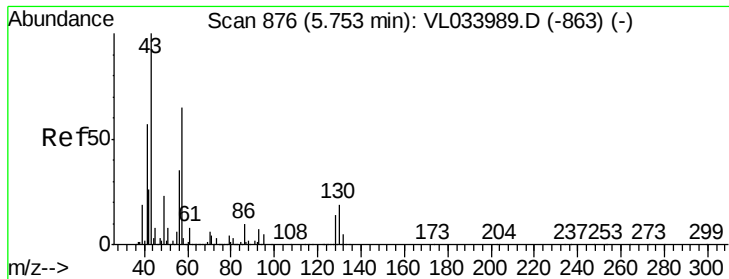
Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Tgt Ion:	43	Resp:	547662
Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.1	12.1
61	9.7	8.1	12.1
70	8.5	6.3	9.5





#26

Hexane

Concen: 1.855 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

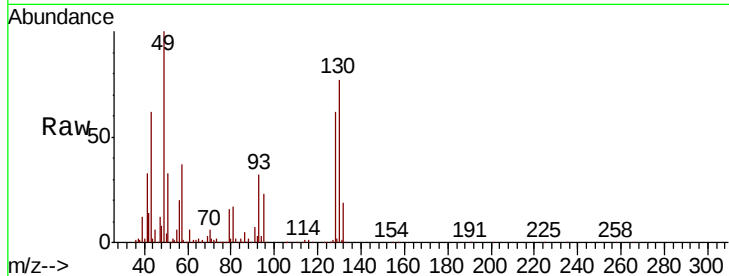
Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 206020

Ion	Ratio	Lower	Upper
57	100		
41	106.9	70.6	105.8#
43	267.8	177.6	266.4#
56	60.7	42.6	64.0



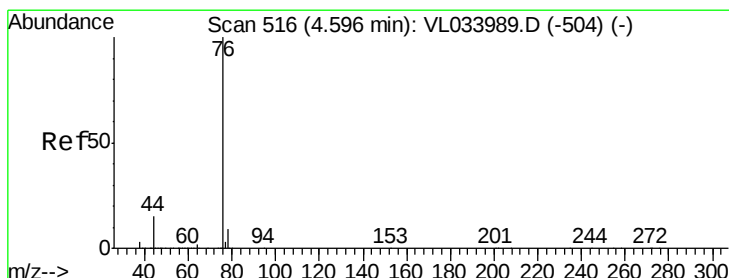
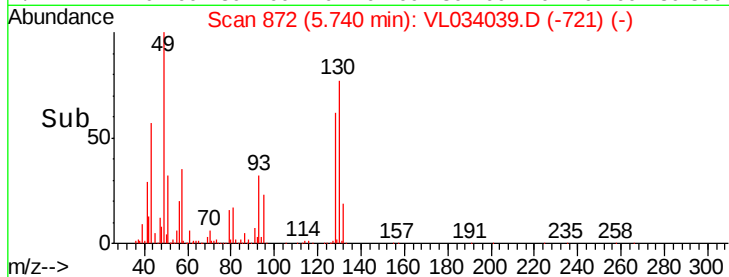
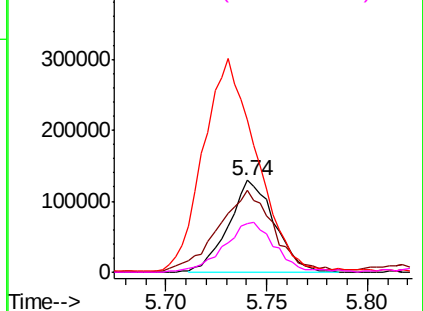
Abundance

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



#27

Carbon Disulfide

Concen: 56.976 ppbv

RT: 4.59 min Scan# 514

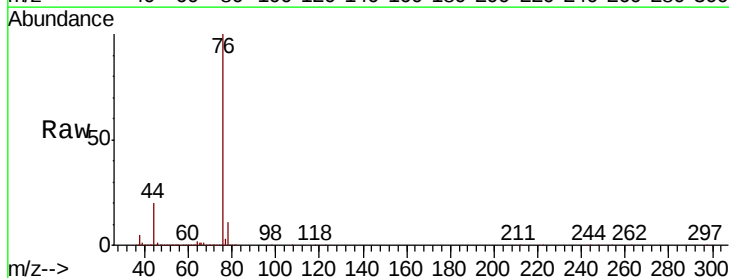
Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Tgt Ion: 76 Resp: 10760178

Ion	Ratio	Lower	Upper
76	100		
44	18.1	12.6	18.8
78	10.2	7.2	10.8

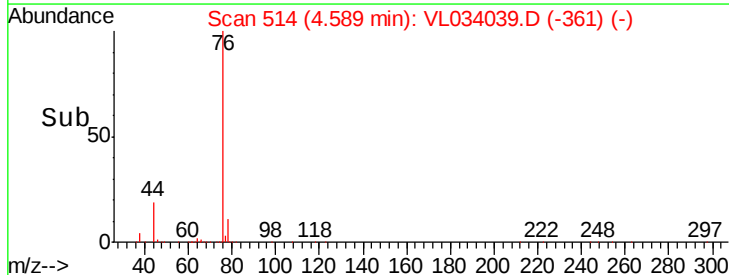
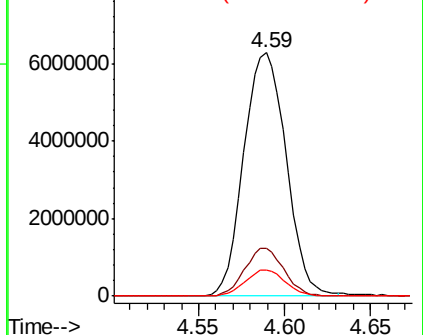


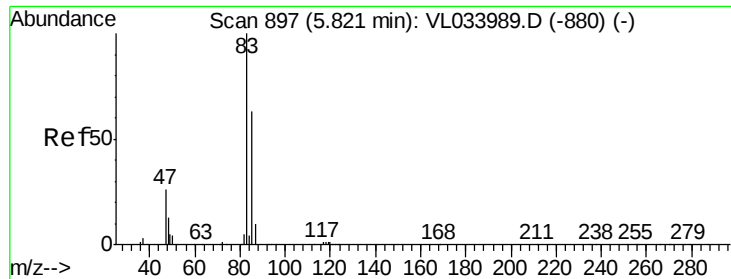
Abundance

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: 0.782 ppbv

RT: 5.82 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

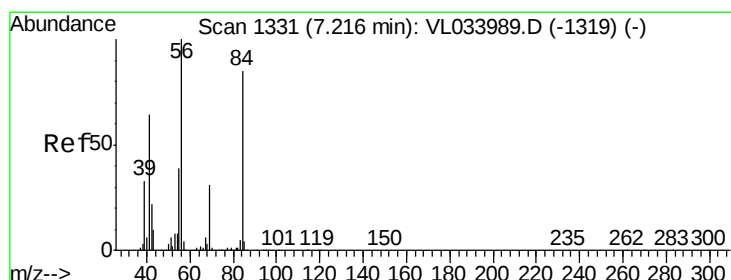
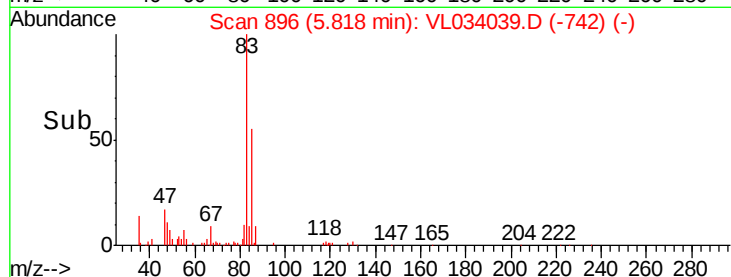
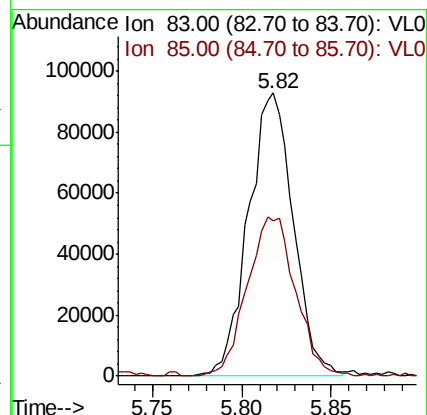
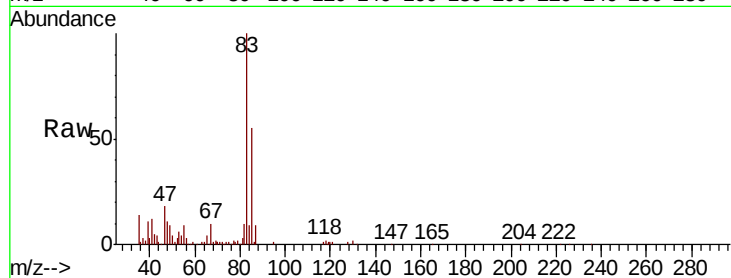
ClientSampleId :

Tot Ion: 83 Resp: 163307

Ion Ratio Lower Upper

83 100

85 54.9 50.6 75.8



#30

Cyclohexane

Concen: 0.796 ppbv

RT: 7.20 min Scan# 1327

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

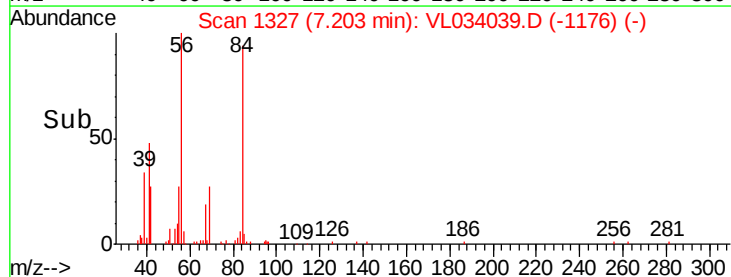
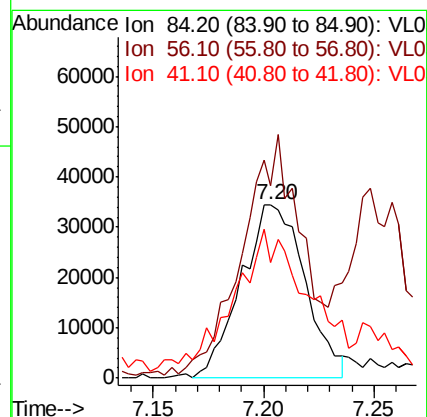
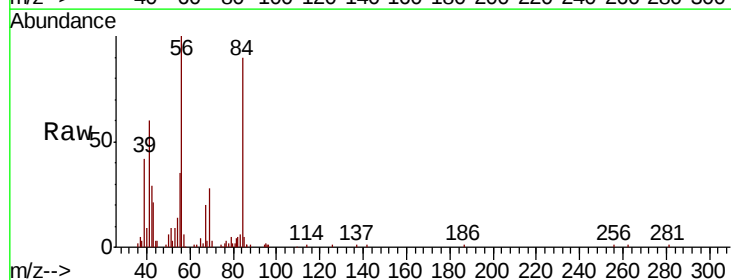
Tgt Ion: 84 Resp: 68315

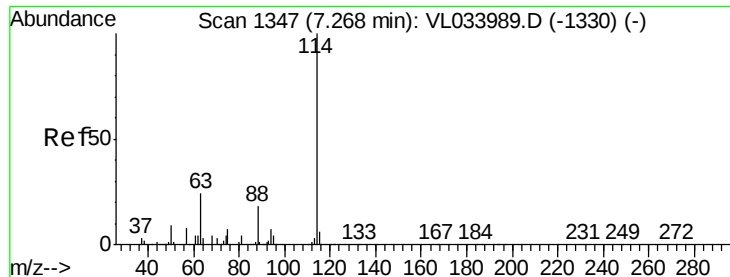
Ion Ratio Lower Upper

84 100

56 137.3 103.7 155.5

41 117.0 62.6 94.0#

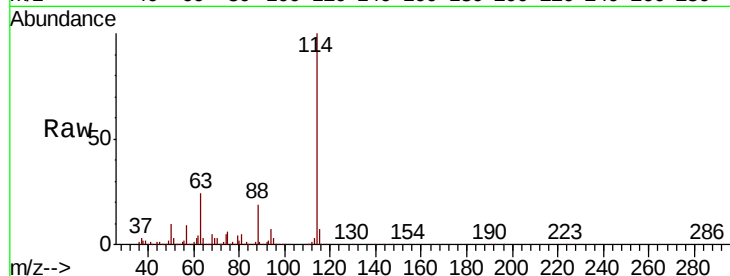




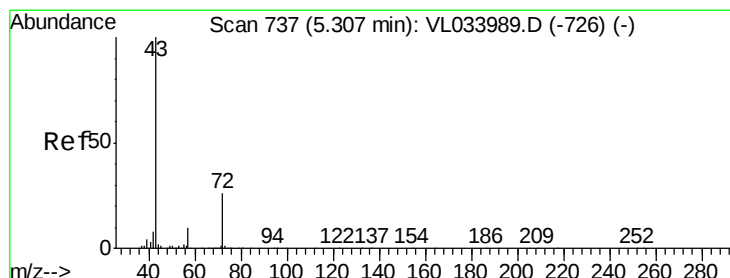
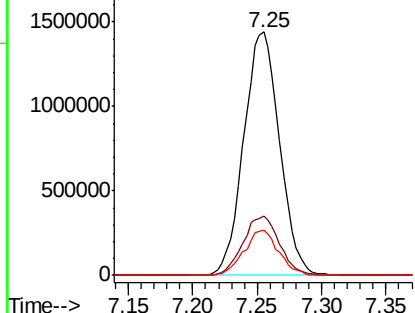
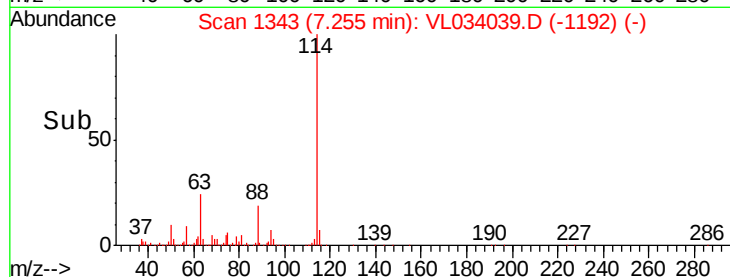
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2787948
 Ion Ratio Lower Upper
 114 100
 63 24.9 20.2 30.2
 88 17.9 14.1 21.1

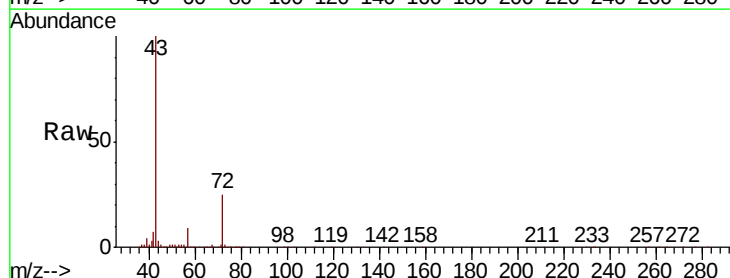


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

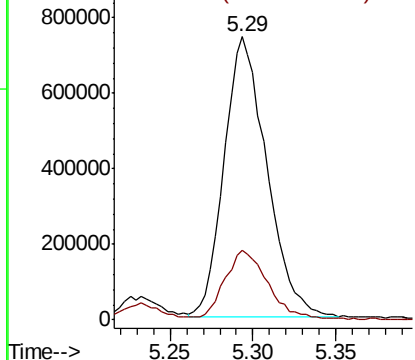
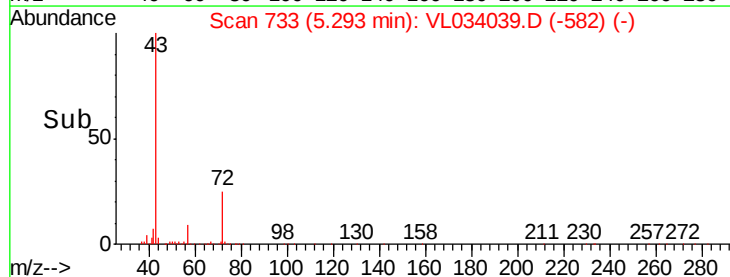


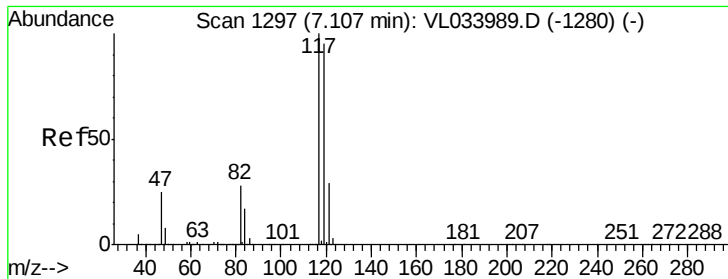
#34
 2-Butanone
 Concen: 8.969 ppbv
 RT: 5.29 min Scan# 733
 Delta R.T. -0.01 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

Tgt Ion: 43 Resp: 1323404
 Ion Ratio Lower Upper
 43 100
 72 26.1 19.9 29.9



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





#35

Carbon Tetrachloride

Concen: 0.047 ppbv

RT: 7.09 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

ClientSampled :

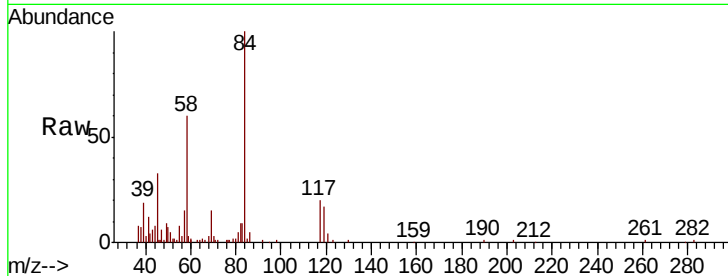
Tot Ion:117 Resp: 10463

Ion Ratio Lower Upper

117 100

119 70.4 75.8 113.6#

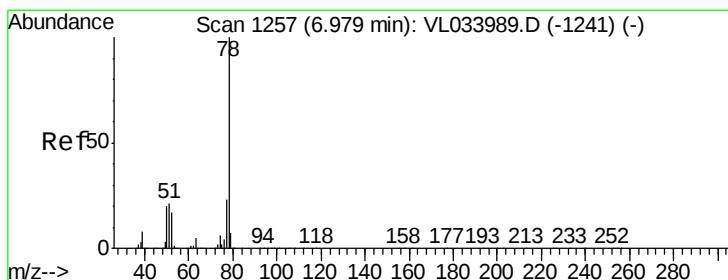
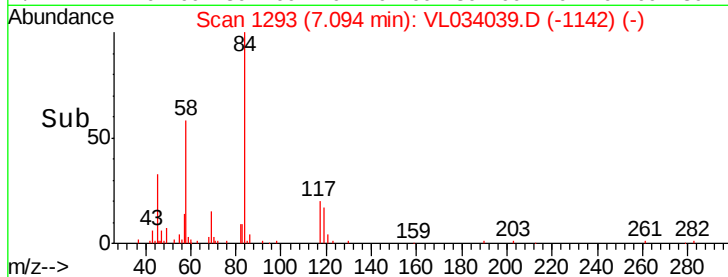
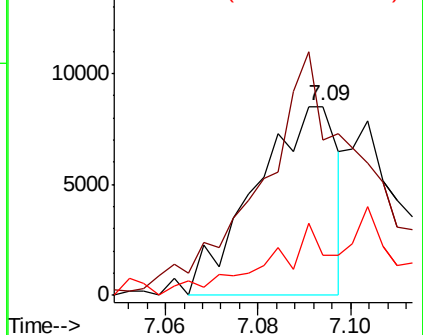
121 14.1 23.4 35.2#



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: 2.500 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

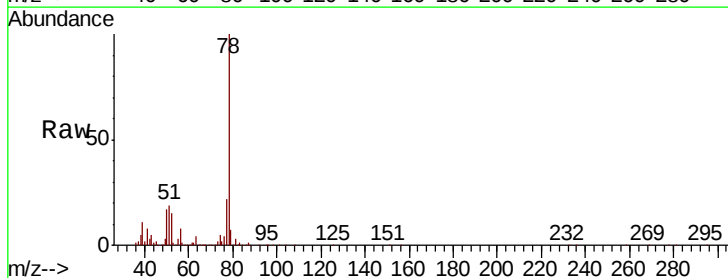
Tgt Ion: 78 Resp: 545434

Ion Ratio Lower Upper

78 100

77 21.5 18.7 28.1

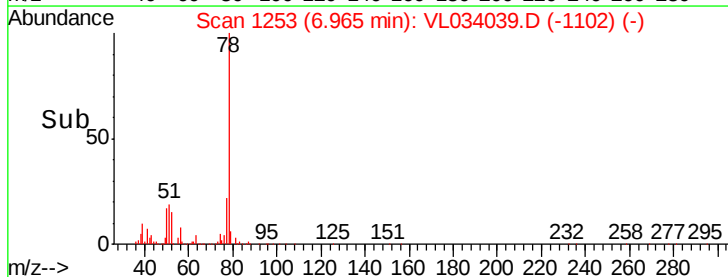
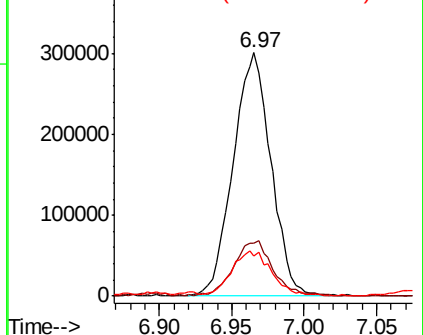
50 16.4 16.2 24.2

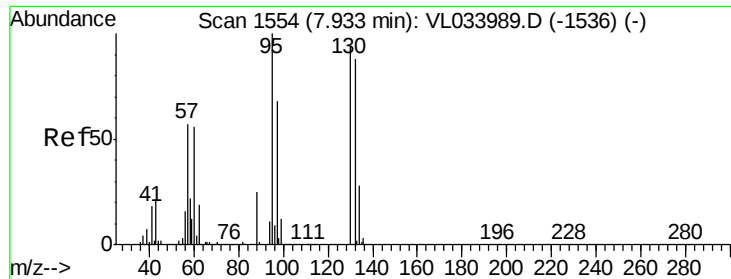


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

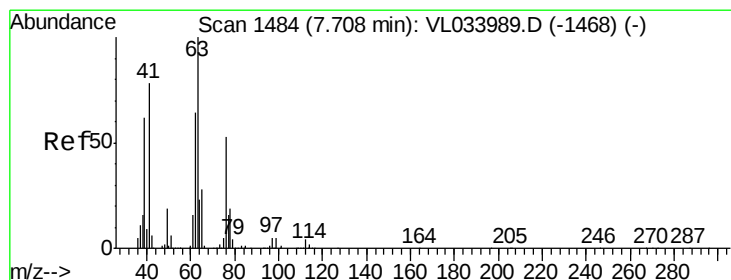
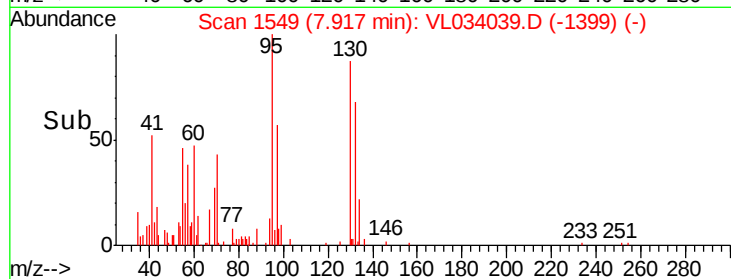
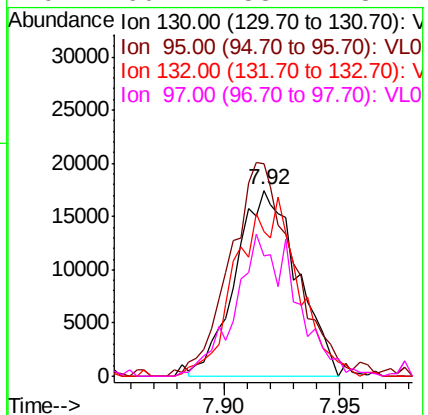
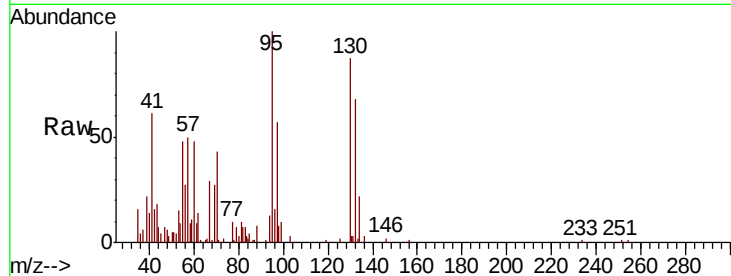




#38
 Trichloroethene
 Concen: 0.335 ppbv
 RT: 7.92 min Scan# 1549
 Delta R.T. -0.02 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

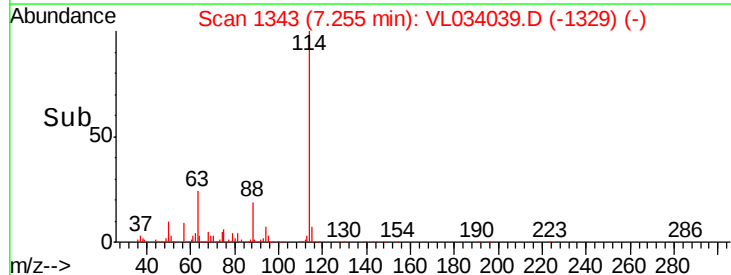
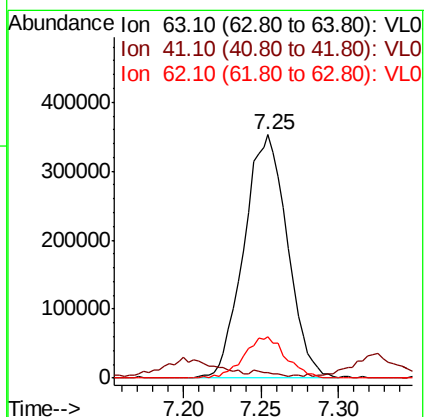
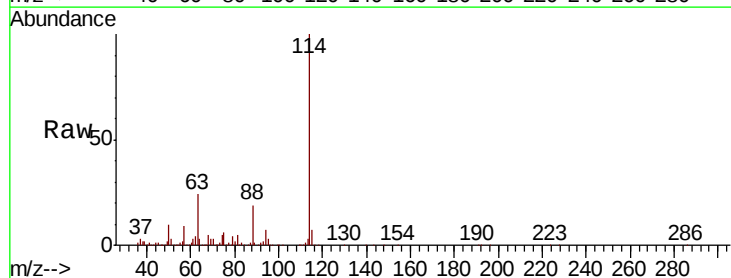
Instrument :
 MSVOA_L
 ClientSampleId :

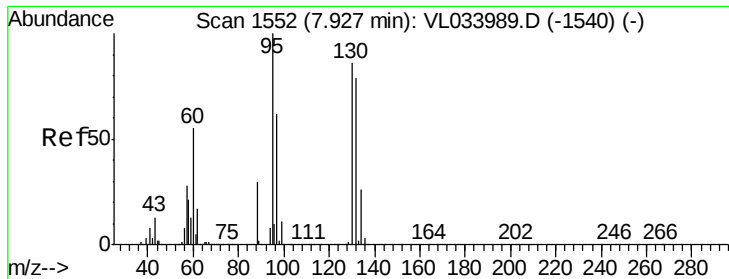
Tot Ion:130 Resp: 32476
 Ion Ratio Lower Upper
 130 100
 95 102.5 85.5 128.3
 132 70.5 75.1 112.7#
 97 60.7 58.1 87.1



#39
 1,2-Dichloropropane
 Concen: 8.466 ppbv
 RT: 7.25 min Scan# 1343
 Delta R.T. -0.45 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

Tgt Ion: 63 Resp: 686794
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.3 93.5#
 62 17.2 51.4 77.2#





#40

1,4-Dioxane

Concen: 0.033 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.02 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 88 Resp: 1242

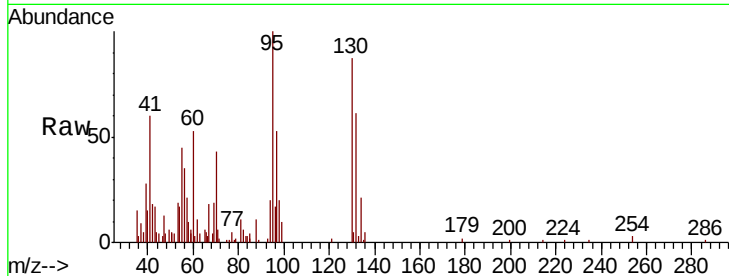
Ion Ratio Lower Upper

88 100

58 0.0 99.1 148.7#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

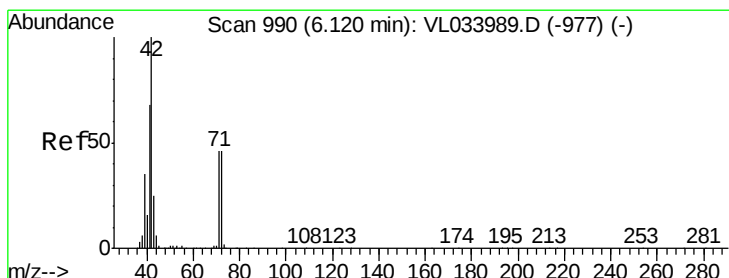
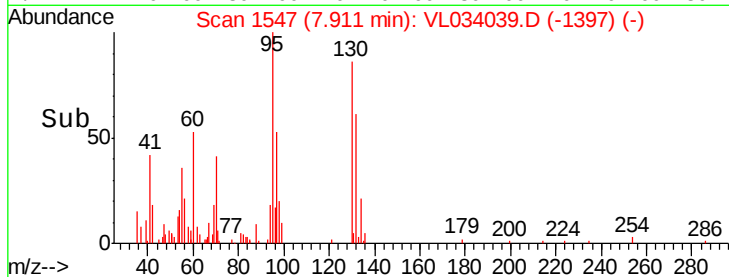
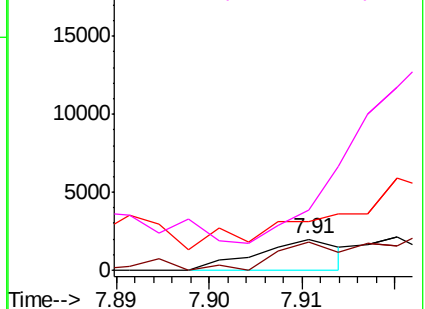


Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 1.302 ppbv

RT: 6.12 min Scan# 989

Delta R.T. -0.00 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

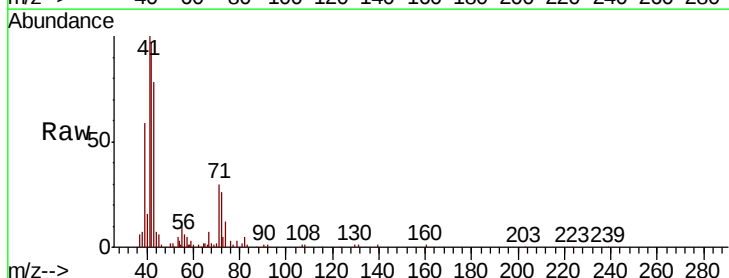
Tgt Ion: 42 Resp: 94233

Ion Ratio Lower Upper

42 100

72 29.6 37.3 55.9#

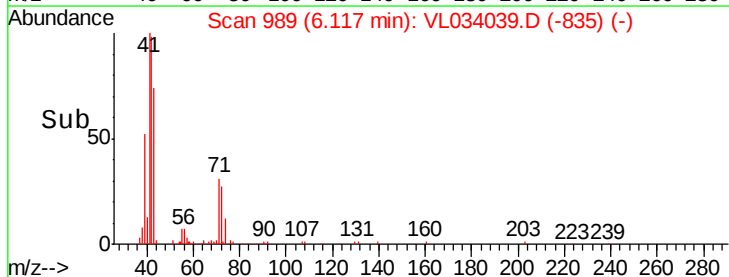
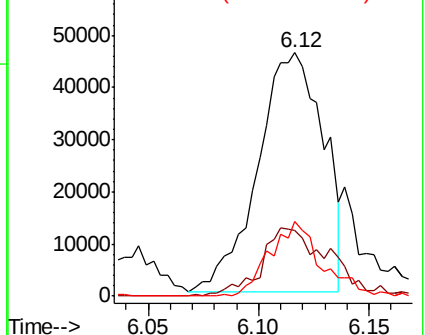
71 25.0 36.2 54.2#

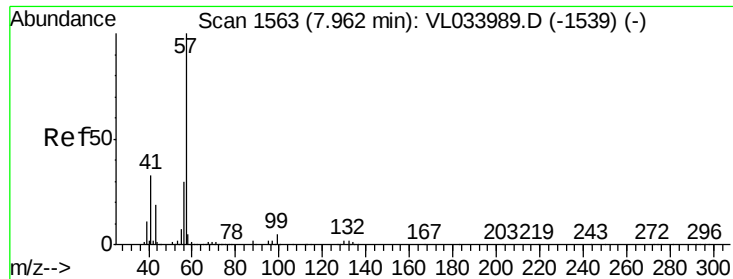


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

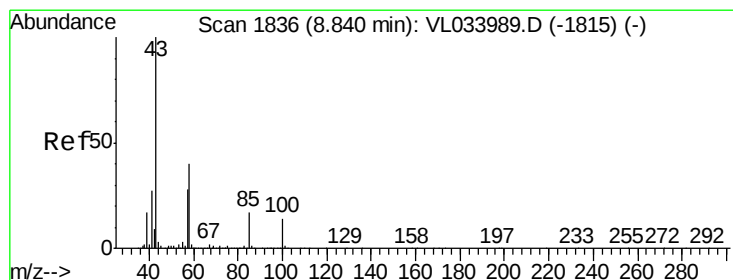
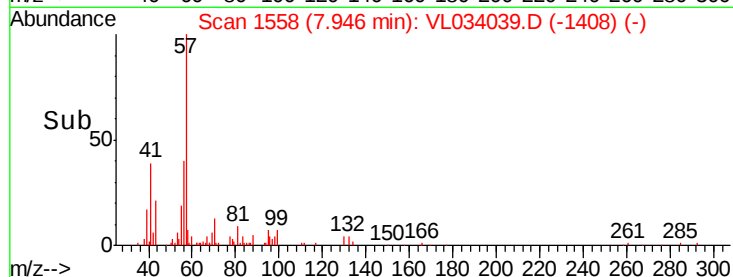
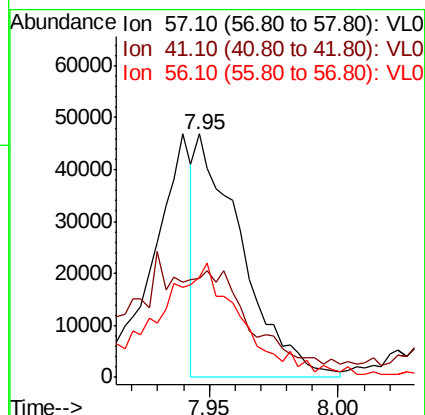
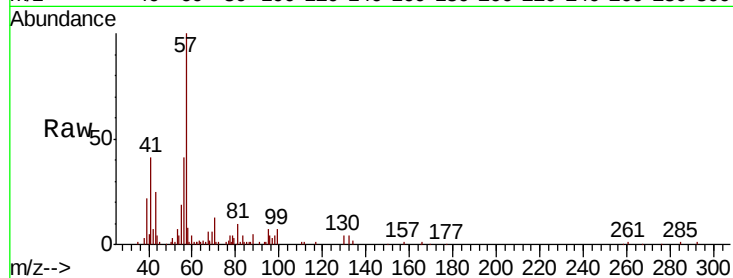




#44
 2,2,4-Trimethylpentane
 Concen: 0.154 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.02 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

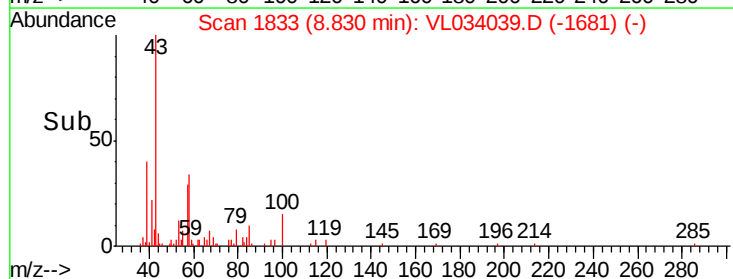
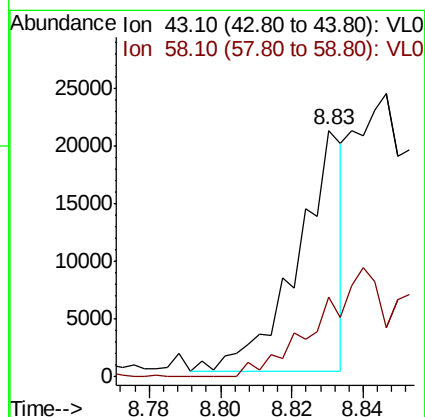
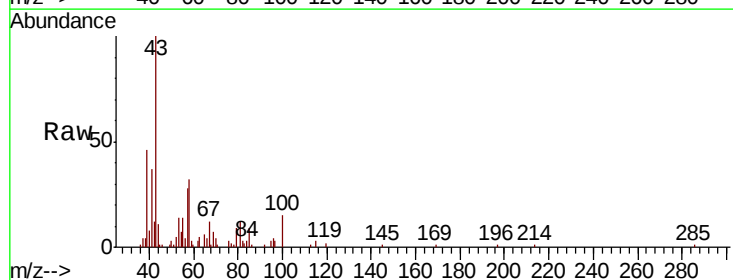
Instrument :
 MSVOA_L
 ClientSampleId :

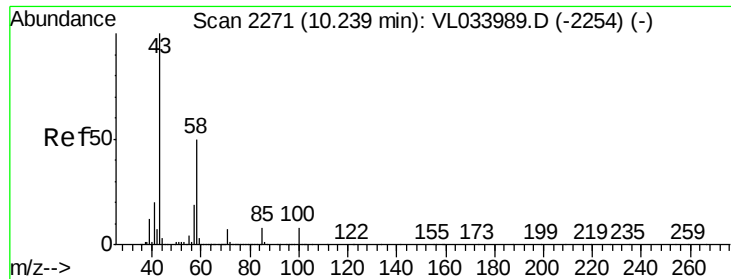
Tot Ion: 57 Resp: 57816
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.1 39.1#
 56 86.1 24.4 36.6#



#50
 4-Methyl-2-Pentanone
 Concen: 0.085 ppbv
 RT: 8.83 min Scan# 1833
 Delta R.T. -0.01 min
 Lab File: VL034039.D
 Acq: 17 Jul 2019 19:54

Tgt Ion: 43 Resp: 18613
 Ion Ratio Lower Upper
 43 100
 58 0.0 30.3 45.5#

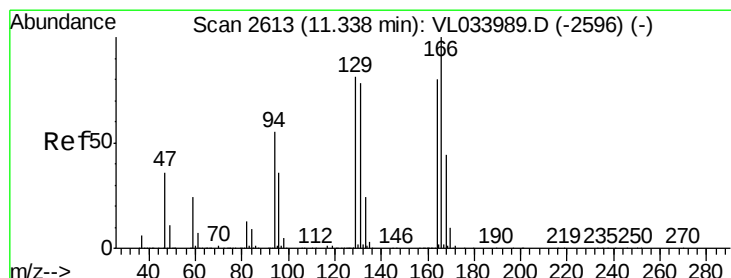
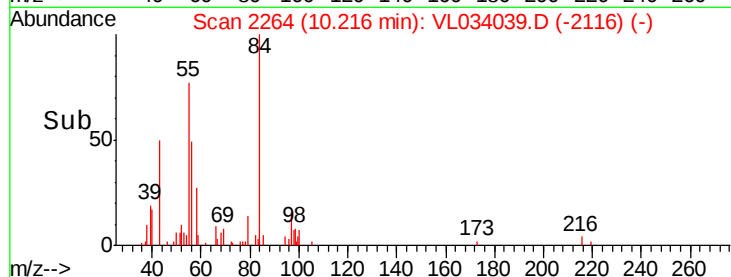
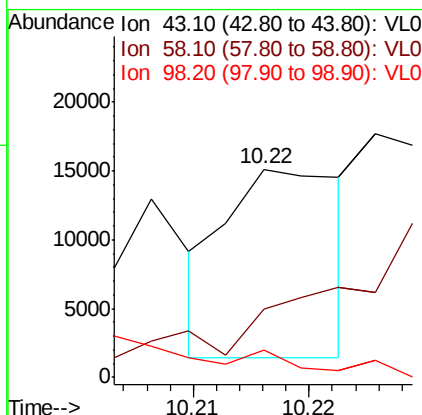
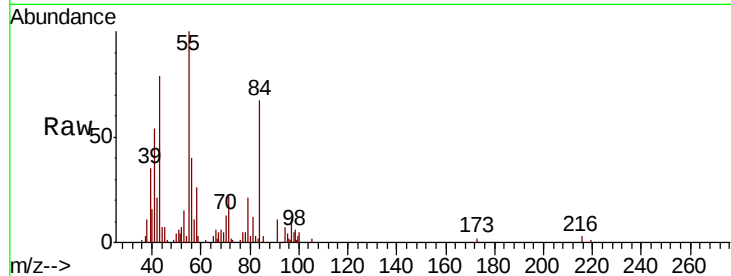




#51
2-Hexanone
Concen: 0.054 ppbv
RT: 10.22 min Scan# 2264
Delta R.T. -0.02 min
Lab File: VL034039.D
Acq: 17 Jul 2019 19:54

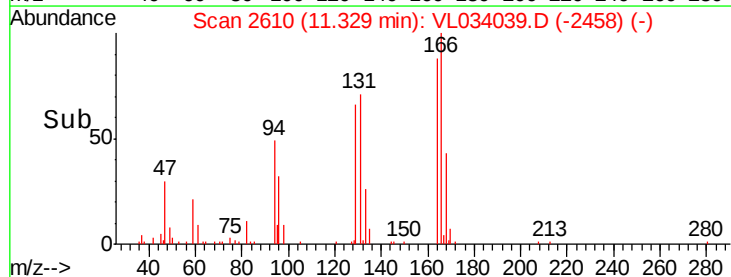
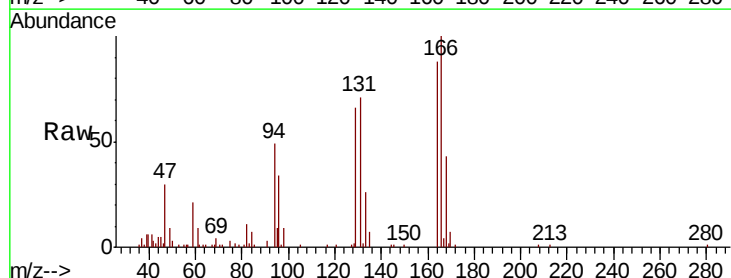
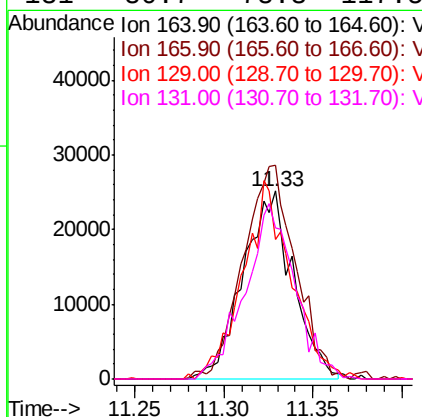
Instrument :
MSVOA_L
ClientSampleId :

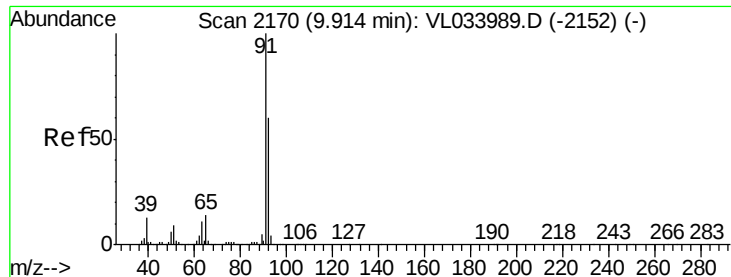
Tot Ion: 43 Resp: 9590
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.4#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.521 ppbv
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034039.D
Acq: 17 Jul 2019 19:54

Tgt Ion: 164 Resp: 48924
Ion Ratio Lower Upper
164 100
166 113.0 100.2 150.2
129 72.0 81.0 121.6#
131 80.7 78.3 117.5





#53

Toluene

Concen: 4.704 ppbv

RT: 9.90 min Scan# 2165

Delta R.T. -0.02 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

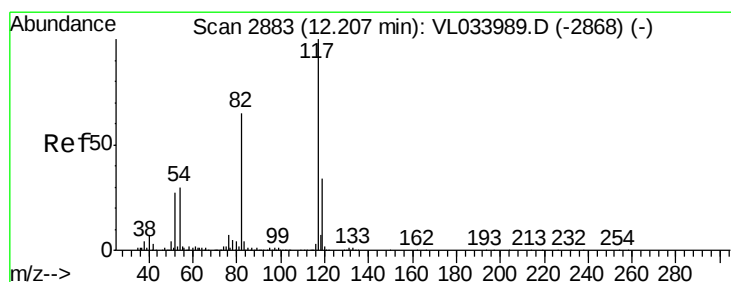
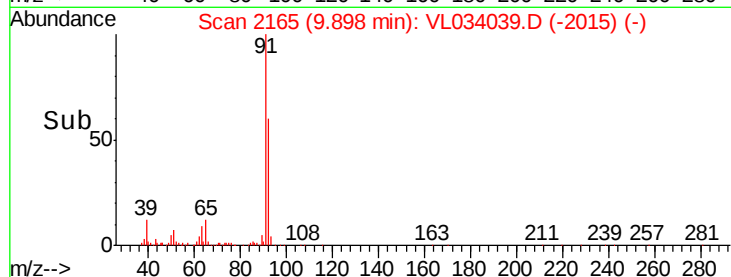
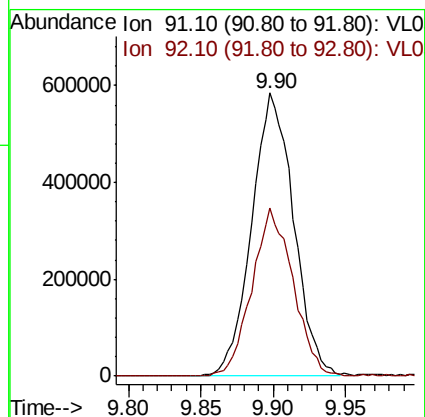
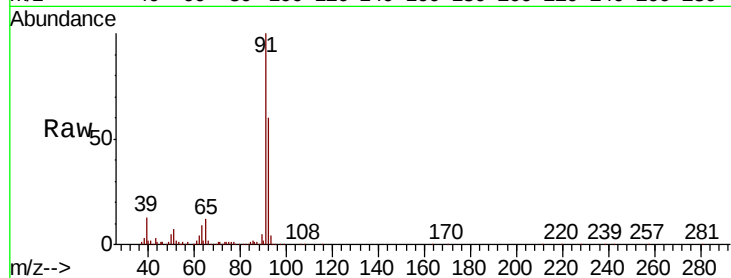
ClientSampleId :

Tot Ion: 91 Resp: 1174687

Ion Ratio Lower Upper

91 100

92 58.5 47.7 71.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2879

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

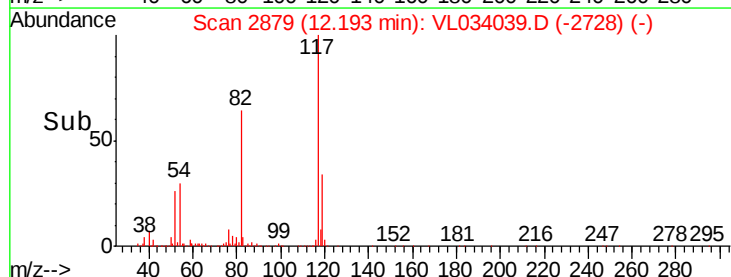
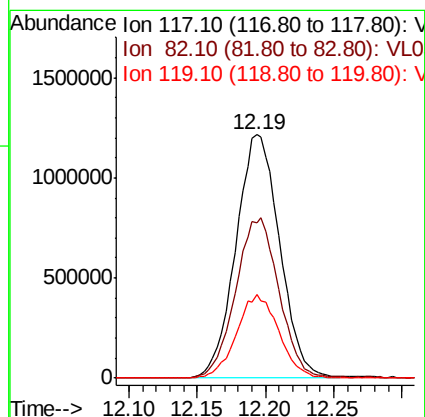
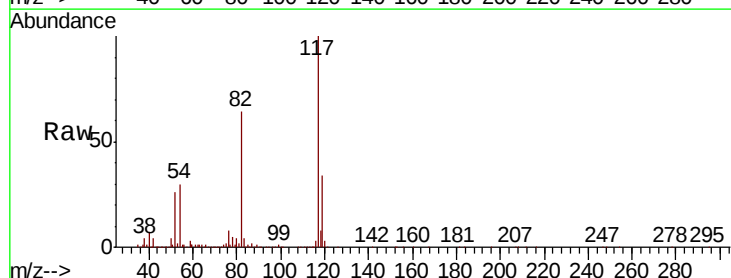
Tgt Ion: 117 Resp: 2692995

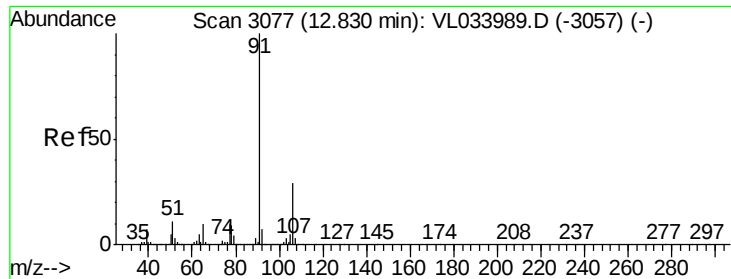
Ion Ratio Lower Upper

117 100

82 65.5 50.8 76.2

119 33.2 24.0 36.0





#58

Ethyl Benzene

Concen: 0.660 ppbv

RT: 12.82 min Scan# 3073

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

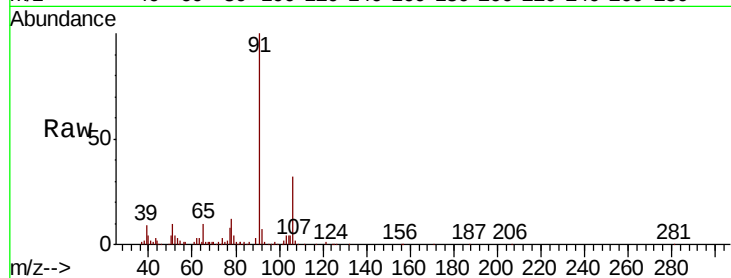
ClientSampleId :

Tot Ion: 91 Resp: 213618

Ion Ratio Lower Upper

91 100

106 31.3 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.82

120000

100000

80000

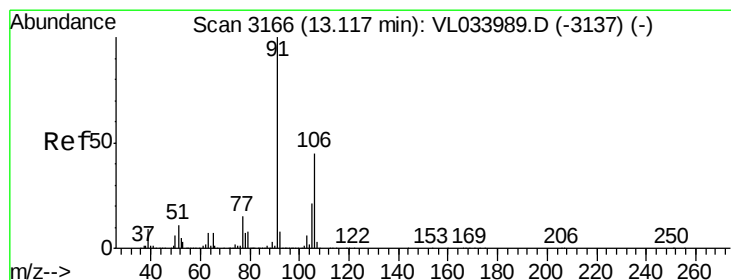
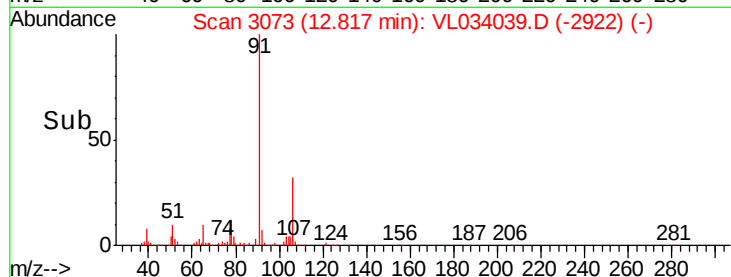
60000

40000

20000

0

Time-->



#59

m/p-Xylene

Concen: 1.473 ppbv

RT: 13.08 min Scan# 3154

Delta R.T. -0.04 min

Lab File: VL034039.D

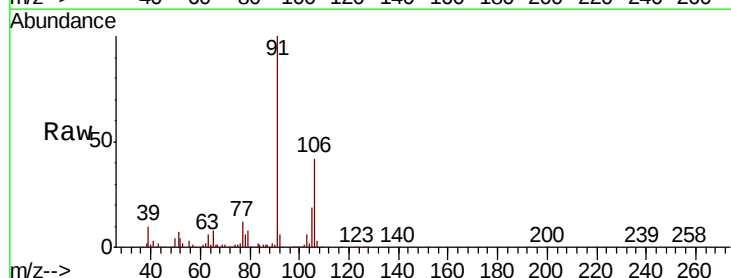
Acq: 17 Jul 2019 19:54

Tgt Ion: 91 Resp: 431891

Ion Ratio Lower Upper

91 100

106 68.3 35.7 53.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.08

250000

200000

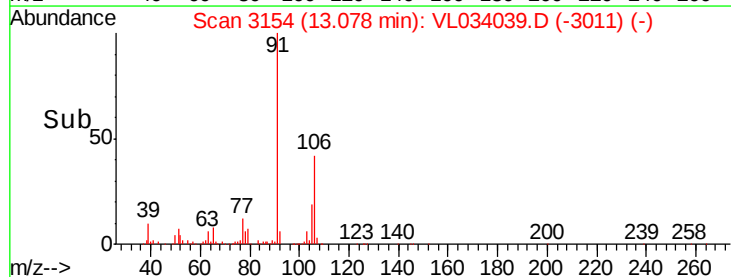
150000

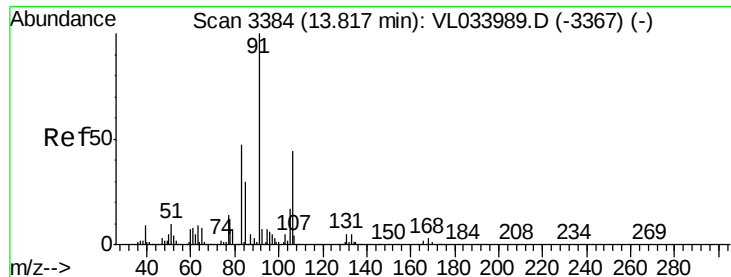
100000

50000

0

Time-->





#60

o-Xylene

Concen: 0.417 ppbv

RT: 13.80 min Scan# 3380

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

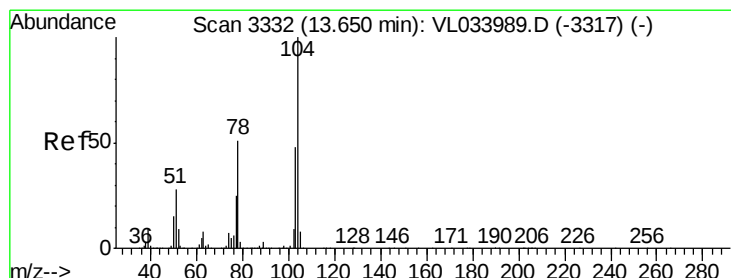
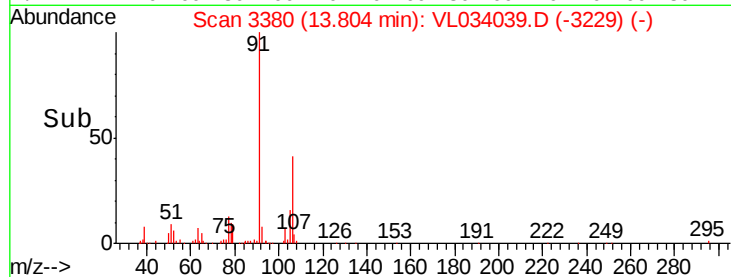
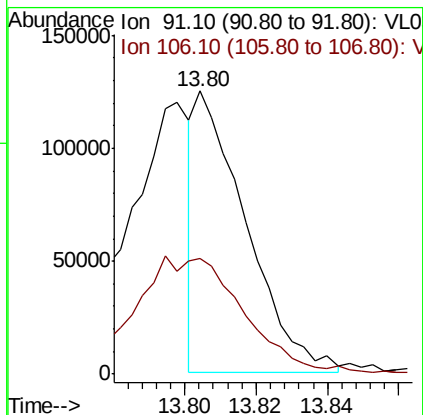
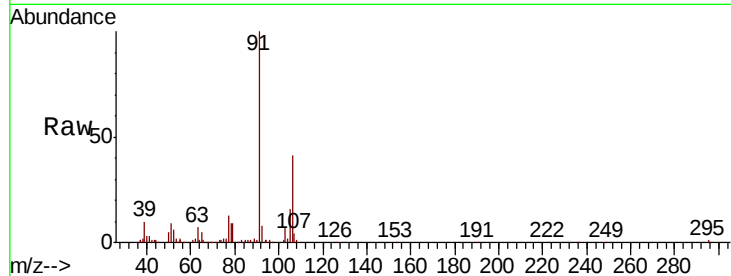
ClientSampleId :

Tot Ion: 91 Resp: 122430

Ion Ratio Lower Upper

91 100

106 0.0 21.9 65.7#



#61

Styrene

Concen: 0.217 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. -0.02 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

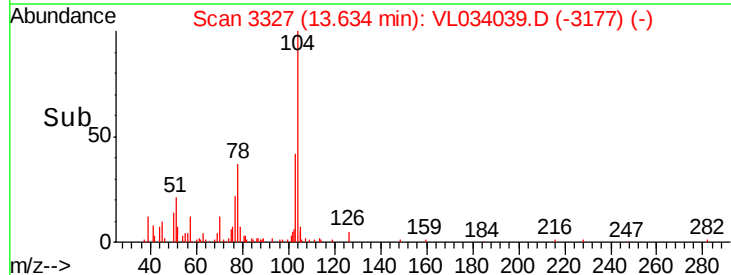
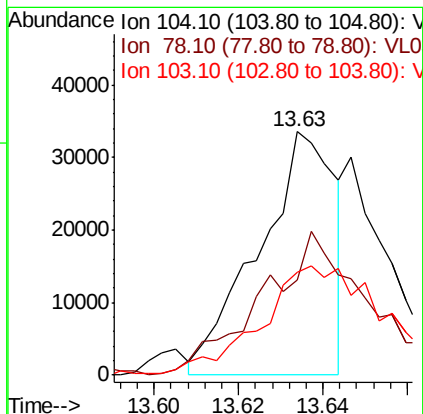
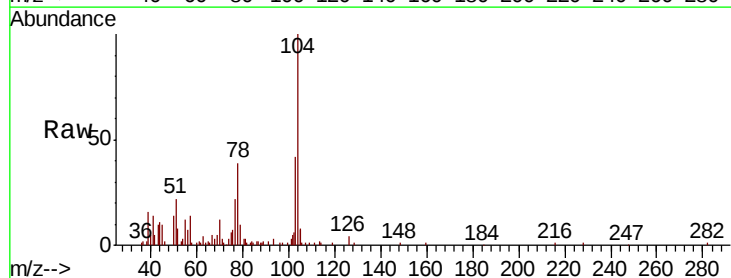
Tgt Ion: 104 Resp: 42031

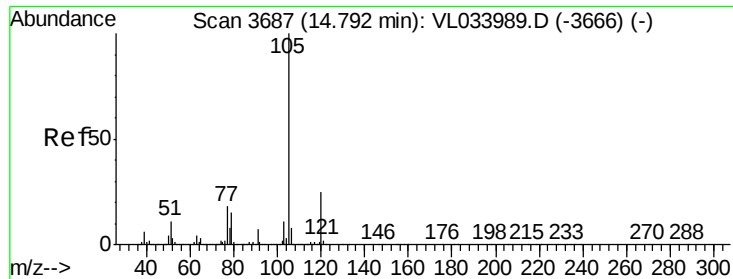
Ion Ratio Lower Upper

104 100

78 86.8 43.9 65.9#

103 76.8 38.1 57.1#





#62

Isopropylbenzene

Concen: 0.269 ppbv

RT: 14.78 min Scan# 3684

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

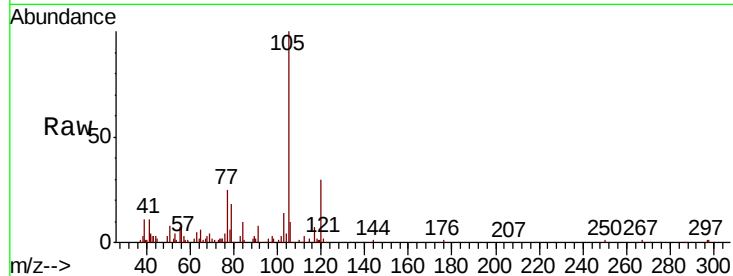
ClientSampled :

Tot Ion:105 Resp: 121200

Ion Ratio Lower Upper

105 100

120 24.6 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

60000

50000

40000

30000

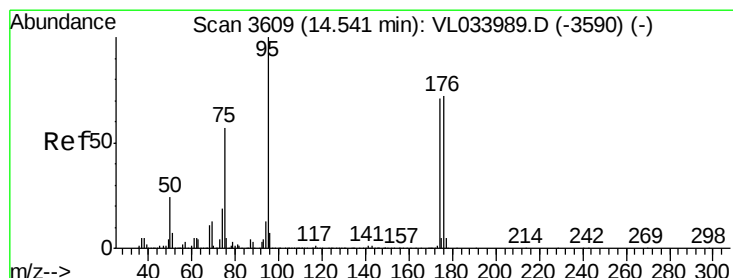
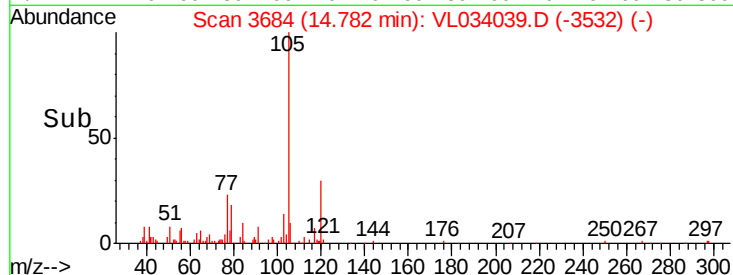
20000

10000

0

14.70 14.75 14.80 14.85

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.215 ppbv

RT: 14.53 min Scan# 3605

Delta R.T. -0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

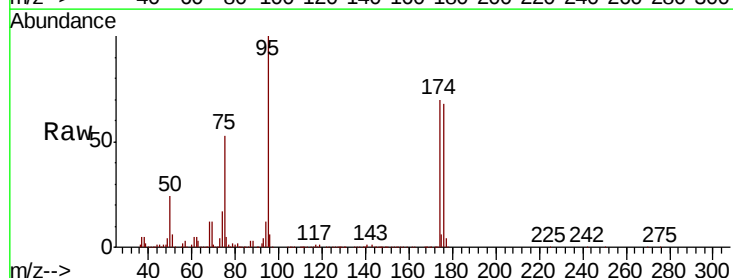
Tgt Ion: 95 Resp: 2116645

Ion Ratio Lower Upper

95 100

174 71.5 60.5 90.7

175 5.0 4.0 6.0



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

1200000

1000000

800000

600000

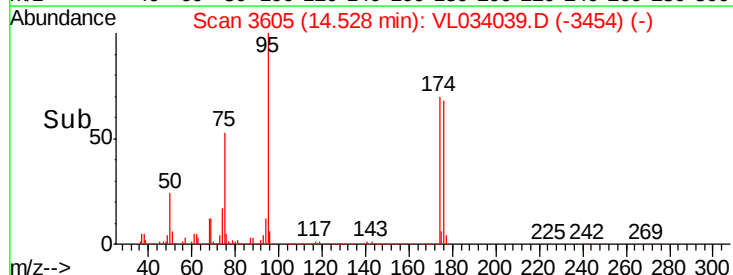
400000

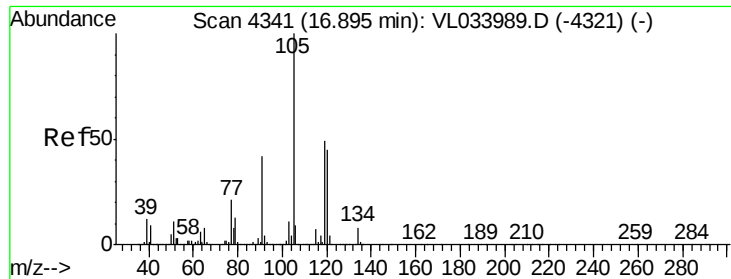
200000

0

14.50 14.55 14.60

Time-->





#74

1,2,4-Trimethylbenzene

Concen: 0.218 ppbv

RT: 16.87 min Scan# 4335

Delta R.T. -0.02 min

Lab File: VL034039.D

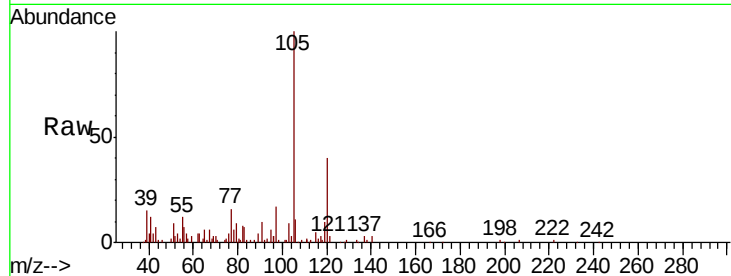
Acq: 17 Jul 2019 19:54

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	84602
Ion Ratio	Lower	Upper
105	100	
120	41.0	36.2 54.2
91	9.8	34.3 51.5#
77	15.1	17.1 25.7#

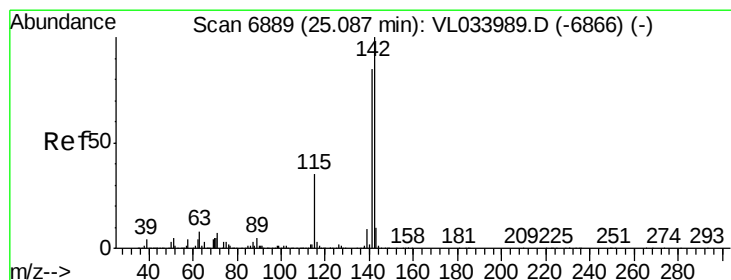
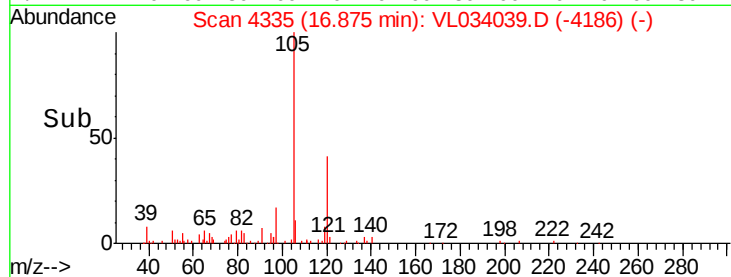
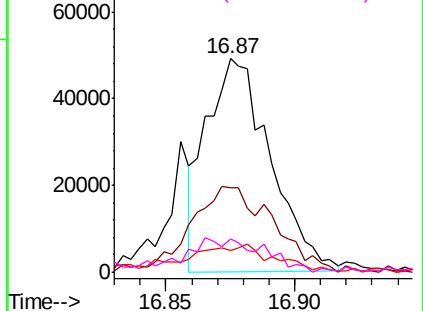


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.038 ppbv

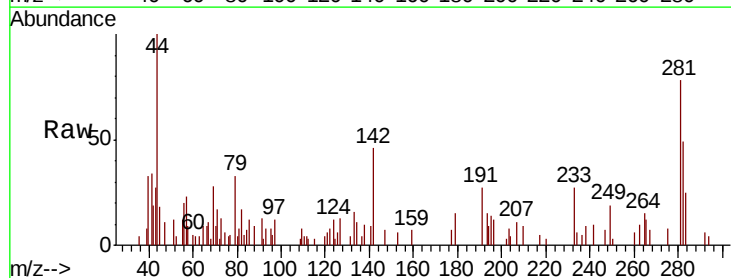
RT: 25.10 min Scan# 6893

Delta R.T. 0.01 min

Lab File: VL034039.D

Acq: 17 Jul 2019 19:54

Tgt Ion:142	Resp:	4463
Ion Ratio	Lower	Upper
142	100	
141	96.9	68.2 102.2
115	36.7	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

