

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033956.D
 Acq On : 25 Jun 2019 3:55
 Operator : SY/AP
 Sample : K3474-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:15:56 AM

Quant Time: Jun 25 05:19:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	865777	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.27	114	2054886	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2466638	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	1896155	9.36	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	52842	0.376	ppbv	99
3) Chlorodifluoromethane	3.00	51	60669m	0.595	ppbv	
4) Chloromethane	3.16	50	31974	0.550	ppbv	91
7) Chloroethane	3.59	64	13531	0.634	ppbv #	82
9) Propene	3.03	41	82879	2.173	ppbv	91
10) Heptane	8.22	43	20833m	0.216	ppbv	
11) Trichlorofluoromethane	3.99	101	84842	0.468	ppbv	88
13) Ethanol	3.64	45	1778899	143.365	ppbv	97
15) Acetone	3.88	43	2041998	16.172	ppbv	93
17) tert-Butyl alcohol	4.35	59	152069	1.541	ppbv	99
18) 1,1-Dichloroethene	4.34	96	153045	2.958	ppbv	97
19) Isopropyl Alcohol	4.02	45	1699025	23.554	ppbv #	99
20) Methylene Chloride	4.40	84	89803	1.824	ppbv #	89
24) 1,1-Dichloroethane	5.07	63	205873	1.803	ppbv	98
26) Hexane	5.76	57	98749	1.128	ppbv #	46
32) 1,1,1-Trichloroethane	6.60	97	127343	0.880	ppbv	97
34) 2-Butanone	5.31	43	454083	3.917	ppbv	100
36) Benzene	6.98	78	20414	0.130	ppbv	95
41) Tetrahydrofuran	6.12	42	501791	8.528	ppbv	98
44) 2,2,4-Trimethylpentane	7.97	57	77297	0.277	ppbv #	24
50) 4-Methyl-2-Pentanone	8.85	43	44645	0.258	ppbv	98
51) 2-Hexanone	10.25	43	24730	0.183	ppbv #	90
53) Toluene	9.92	91	610863	3.517	ppbv	99
58) Ethyl Benzene	12.83	91	171123m	0.615	ppbv	
59) m/p-Xylene	13.09	91	485977	1.922	ppbv	99
60) o-Xylene	13.82	91	232883	0.892	ppbv	99
72) 4-Ethyltoluene	15.97	105	62490m	0.210	ppbv	
73) 1,3,5-Trimethylbenzene	16.13	105	51055m	0.174	ppbv	
74) 1,2,4-Trimethylbenzene	16.90	105	206435	0.612	ppbv #	69
79) Naphthalene	22.39	128	36953m	0.137	ppbv	
80) Naphthalene,2-methyl-	25.09	142	4652	0.043	ppbv #	75
81) 1,2,4-Trichlorobenzene	21.66	180	95751	0.562	ppbv #	25

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

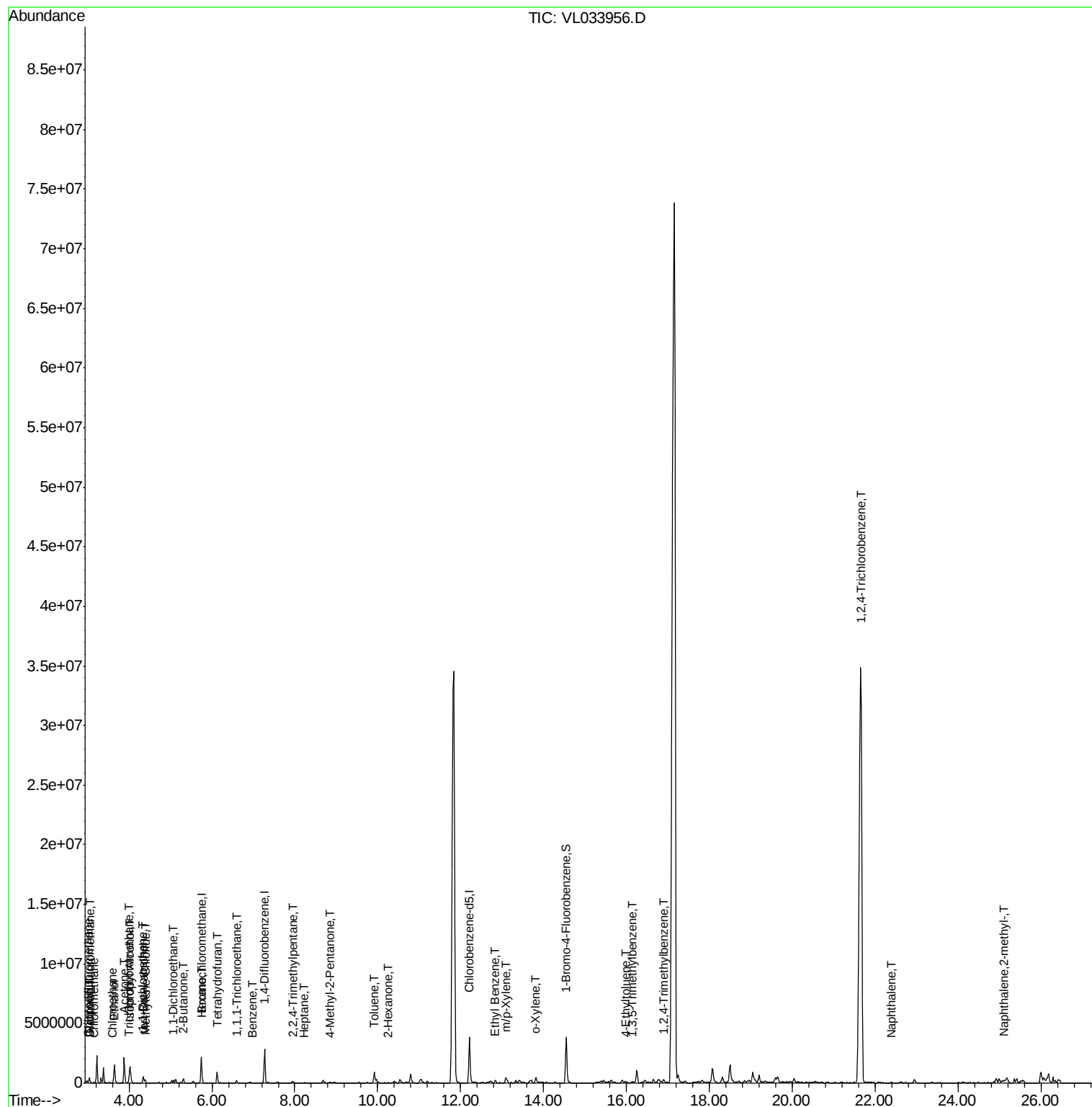
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
Data File : VL033956.D
Acq On : 25 Jun 2019 3:55
Operator : SY/AP
Sample : K3474-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

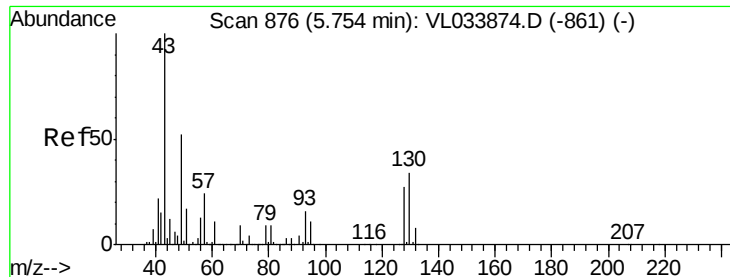
Instrument :
MSVOA_L
ClientSampleId :
MID

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Quant Time: Jun 25 05:19:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

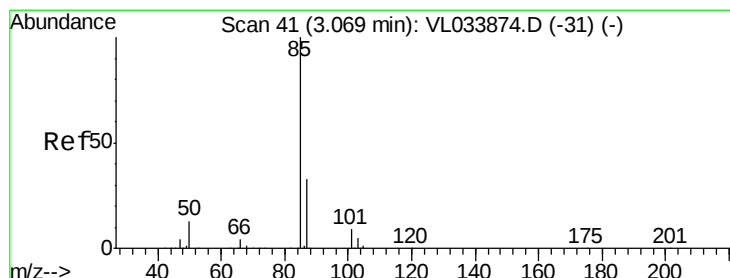
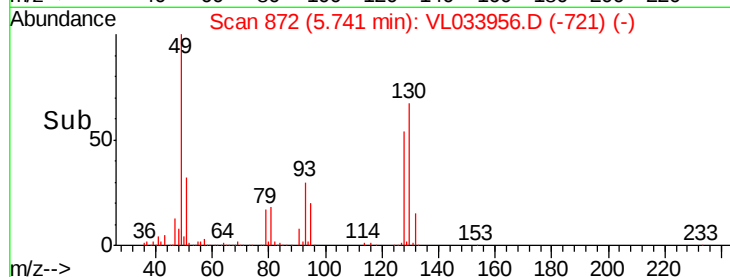
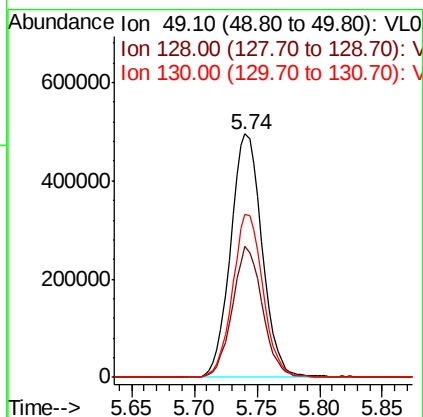
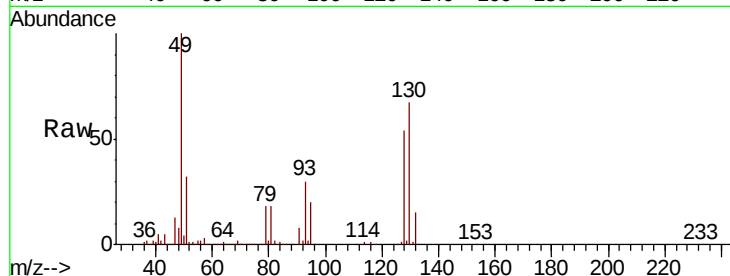
ClientSampled :

MID

Tot Ion:	49	Resp:	865777
Ion Ratio	Lower	Upper	
49	100		
128	51.3	25.5	76.5
130	65.0	32.5	97.4

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#2

Dichlorodifluoromethane

Concen: 0.376 ppbv

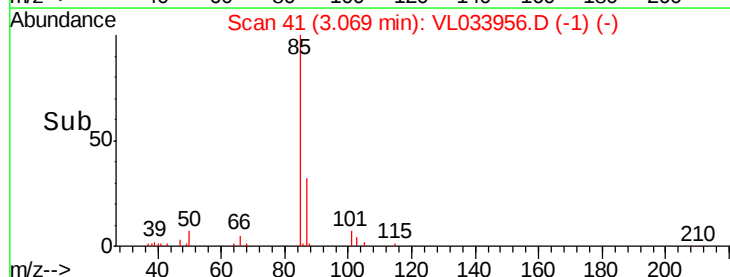
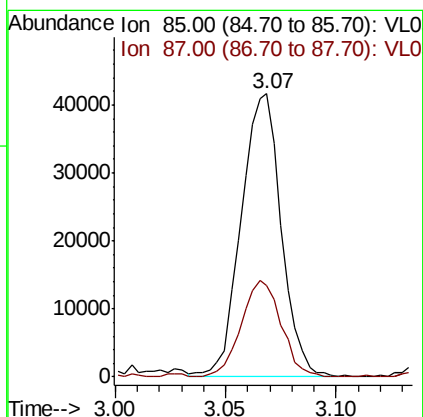
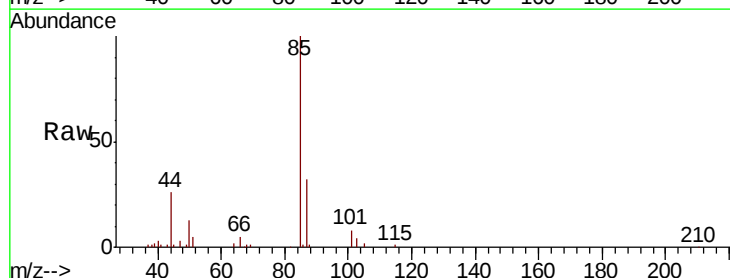
RT: 3.07 min Scan# 41

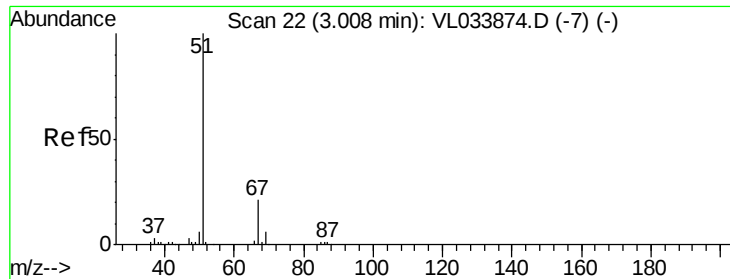
Delta R.T. -0.00 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Tgt Ion:	85	Resp:	52842
Ion Ratio	Lower	Upper	
85	100		
87	33.8	26.6	40.0





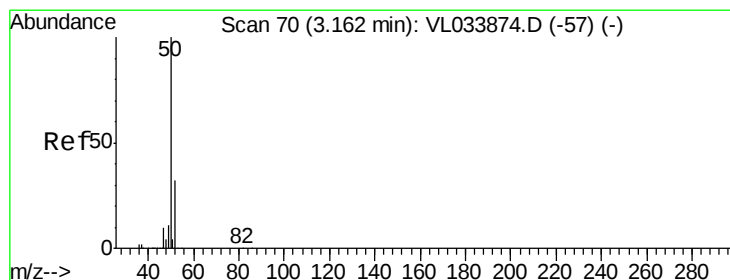
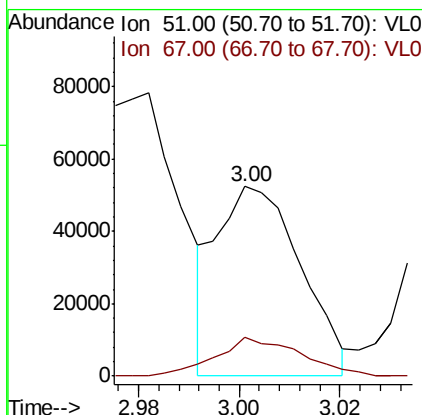
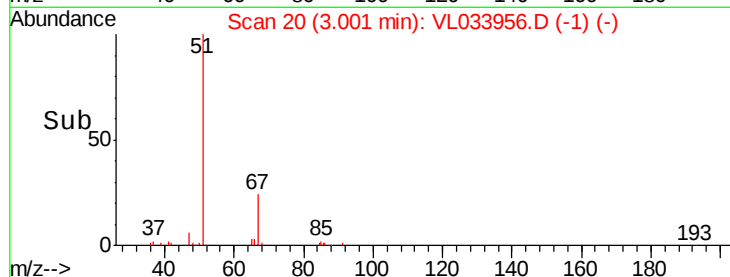
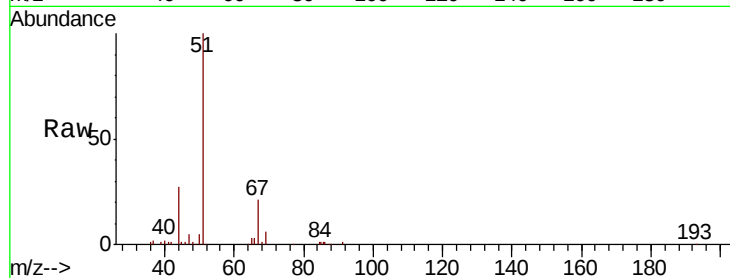
#3
Chlorodifluoromethane
Concen: 0.595 ppbv
RT: 3.00 min Scan# 20
Delta R.T. -0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampled :
MID

Tot Ion: 51 Resp: 60669
Ion Ratio Lower Upper
51 100
67 21.2 16.4 24.6

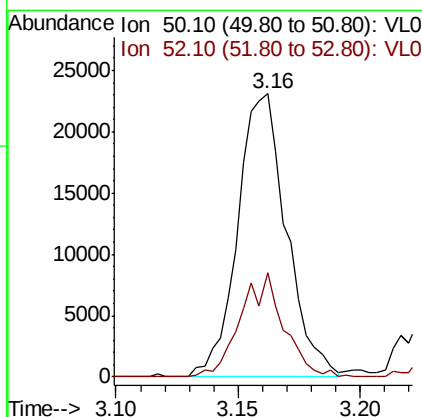
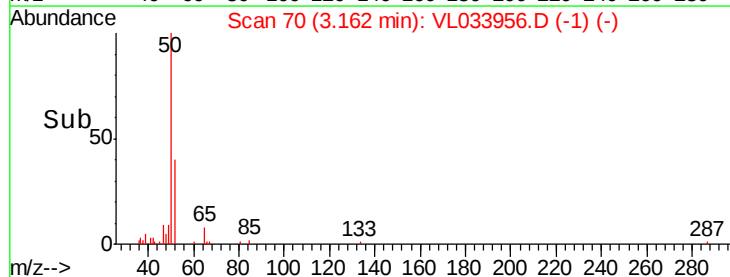
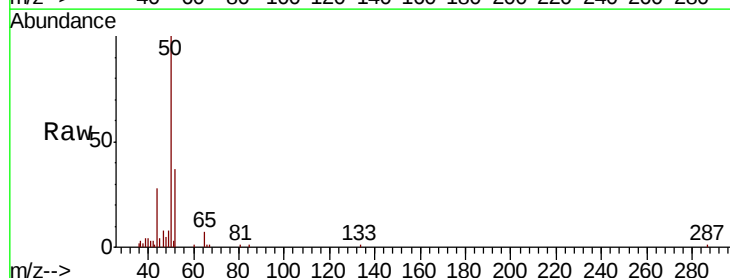
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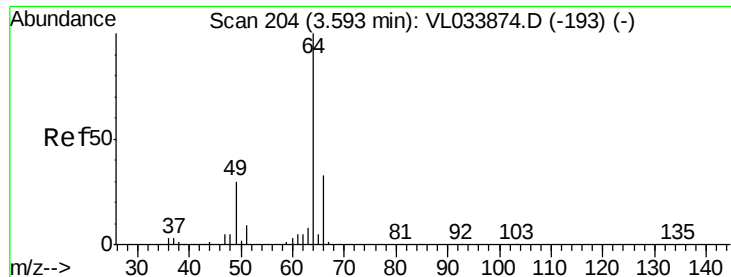
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#4
Chloromethane
Concen: 0.550 ppbv
RT: 3.16 min Scan# 70
Delta R.T. -0.00 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion: 50 Resp: 31974
Ion Ratio Lower Upper
50 100
52 36.6 25.4 38.0





#7

Chloroethane

Concen: 0.634 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 64 Resp: 13531

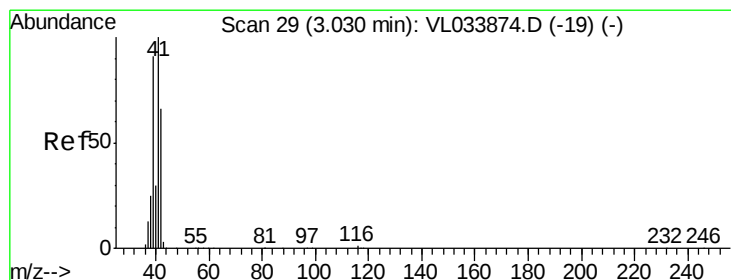
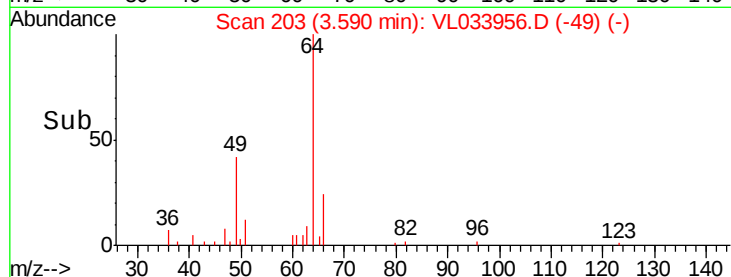
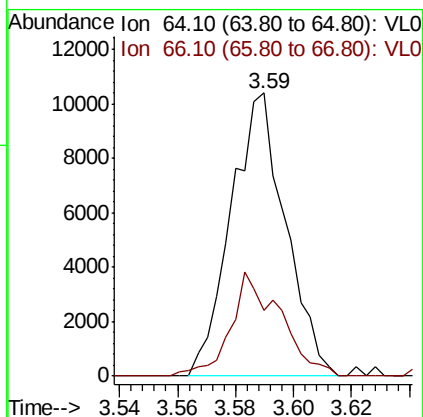
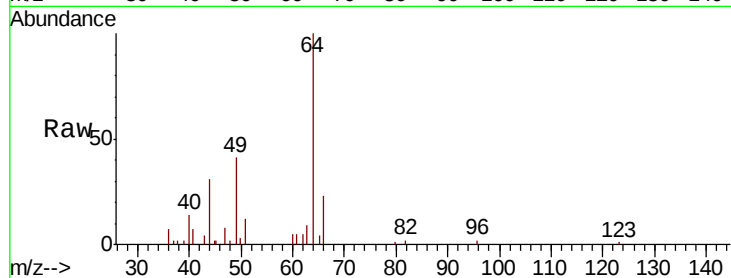
Ion Ratio Lower Upper

64 100

66 23.5 26.7 40.1#

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#9

Propene

Concen: 2.173 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033956.D

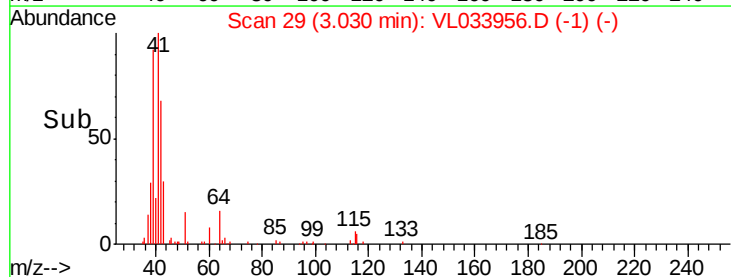
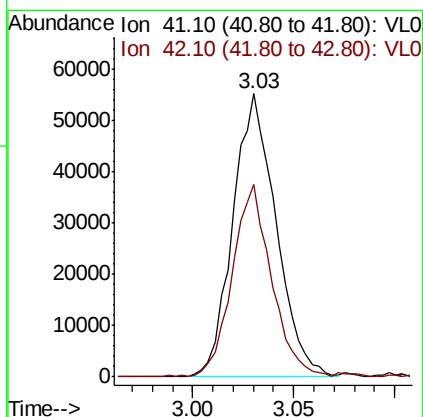
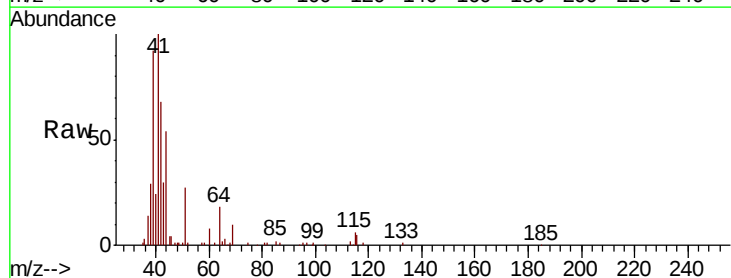
Acq: 25 Jun 2019 3:55

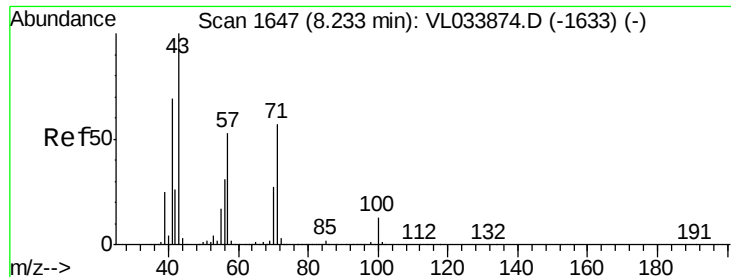
Tgt Ion: 41 Resp: 82879

Ion Ratio Lower Upper

41 100

42 62.6 56.3 84.5





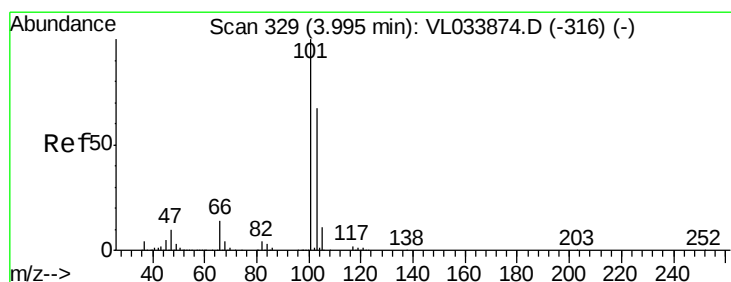
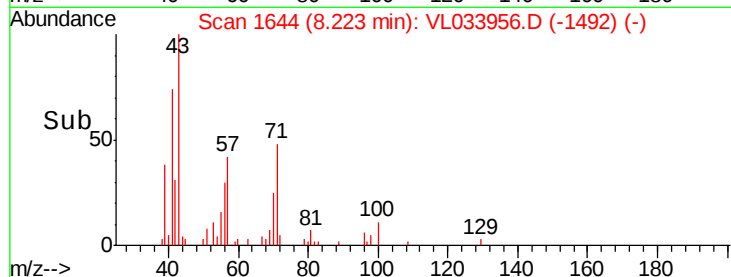
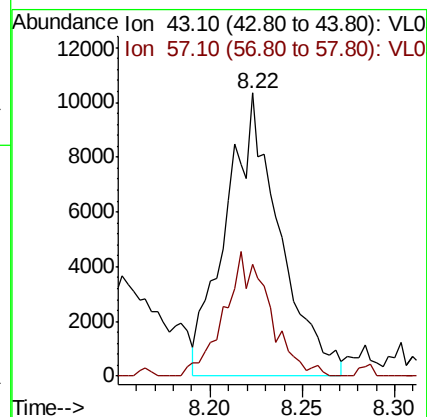
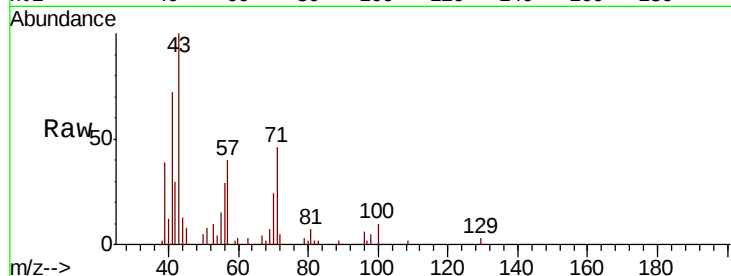
#10
Heptane
Concen: 0.216 ppbv m
RT: 8.22 min Scan# 1644
Delta R.T. -0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampled :
MID

Tot Ion: 43 Resp: 20833
Ion Ratio Lower Upper
43 100
57 37.9 41.7 62.5#

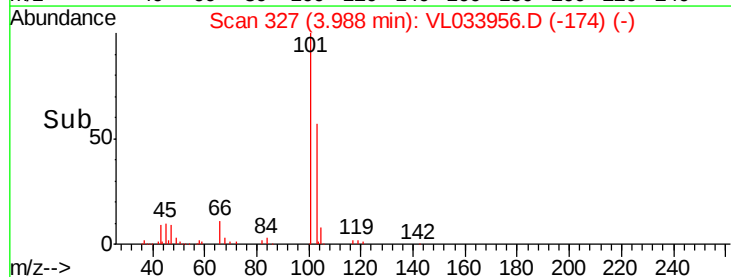
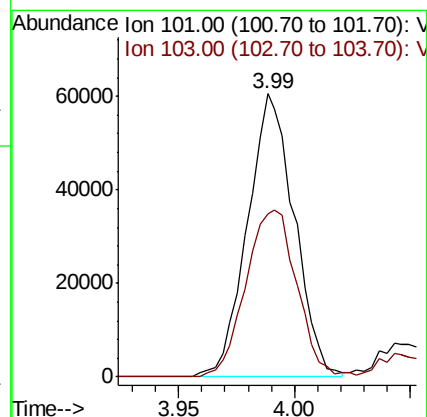
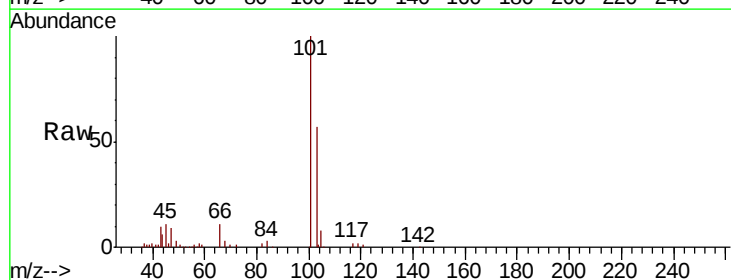
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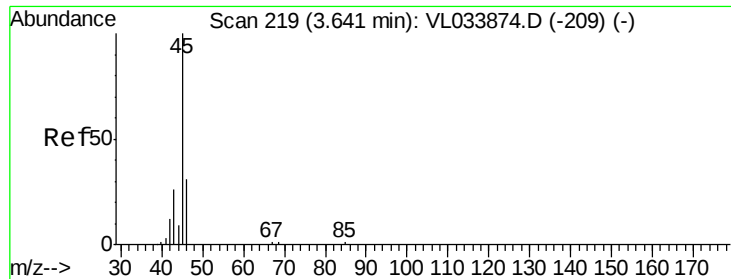
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#11
Trichlorofluoromethane
Concen: 0.468 ppbv
RT: 3.99 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion: 101 Resp: 84842
Ion Ratio Lower Upper
101 100
103 57.4 53.6 80.4





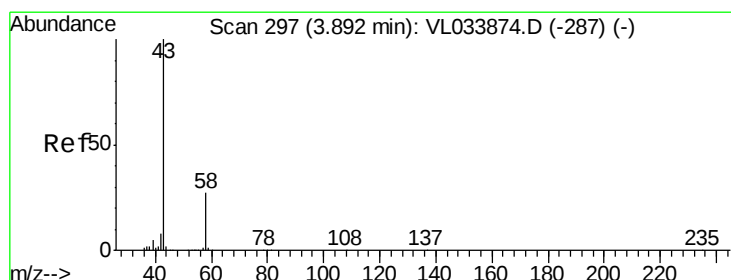
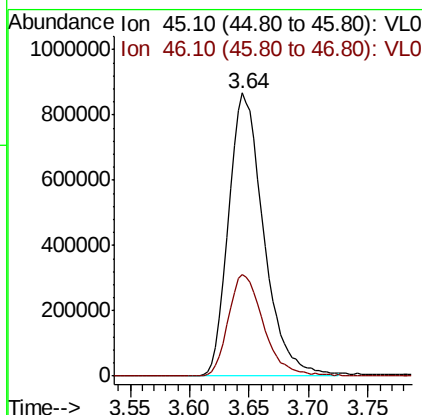
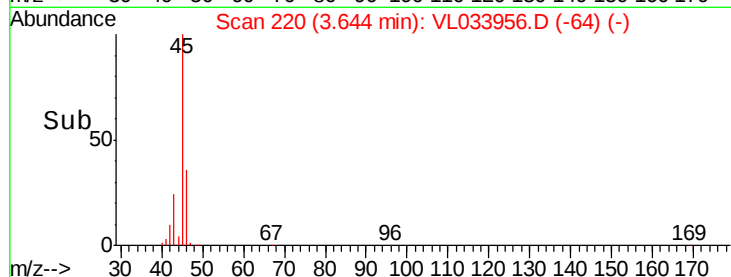
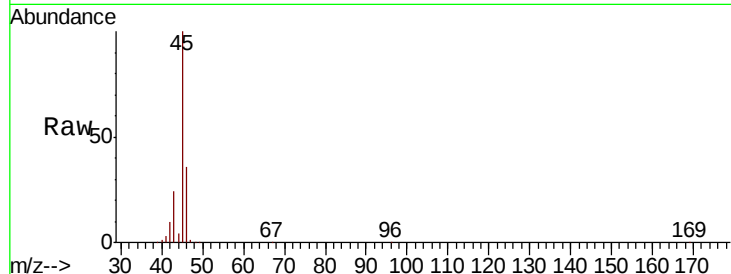
#13
Ethanol
Concen: 143.365 ppbv
RT: 3.64 min Scan# 220
Delta R.T. 0.00 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampled :
MID

Tot Ion: 45 Resp: 1778899
Ion Ratio Lower Upper
45 100
46 36.2 15.3 61.1

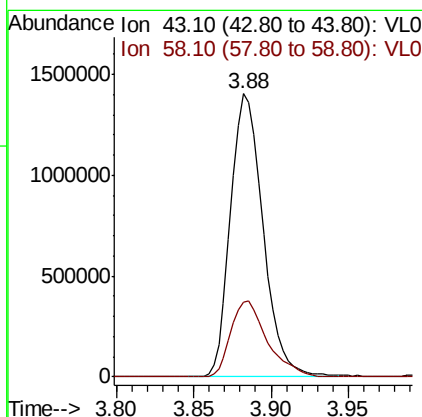
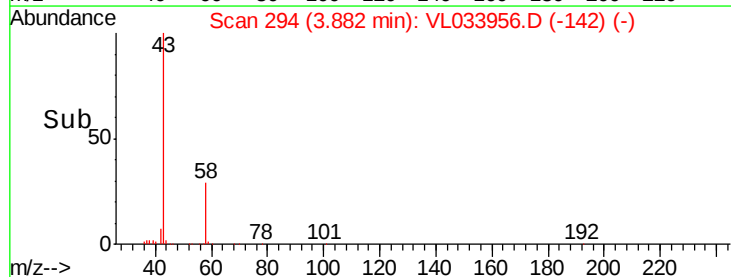
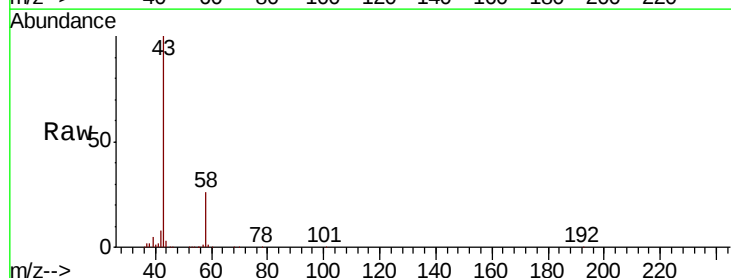
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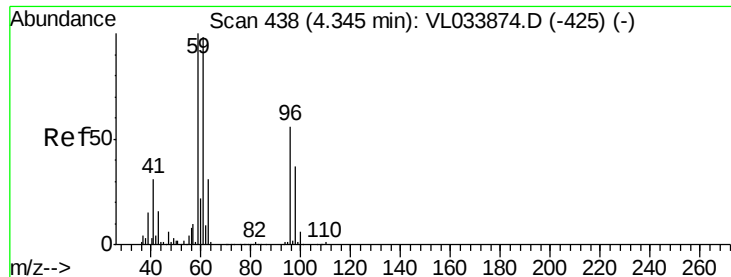
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#15
Acetone
Concen: 16.172 ppbv
RT: 3.88 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion: 43 Resp: 2041998
Ion Ratio Lower Upper
43 100
58 30.4 21.3 31.9





#17

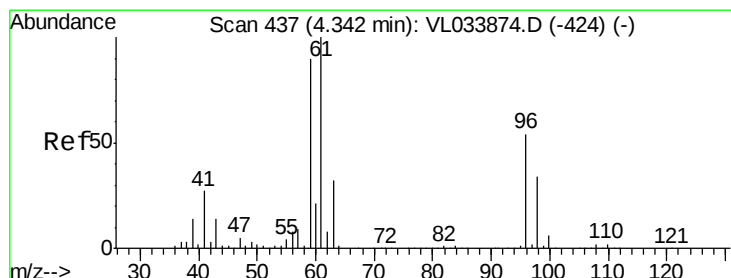
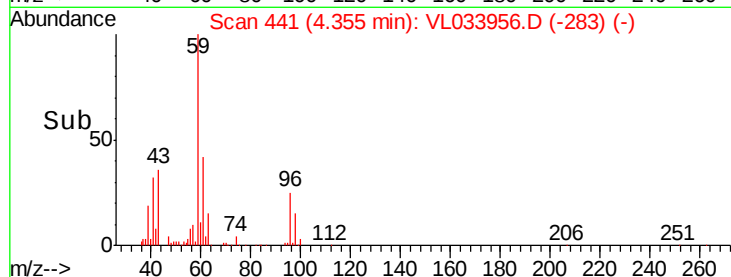
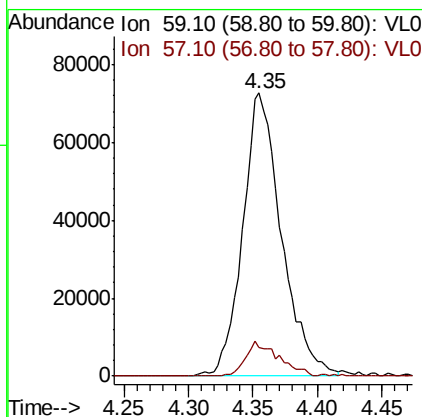
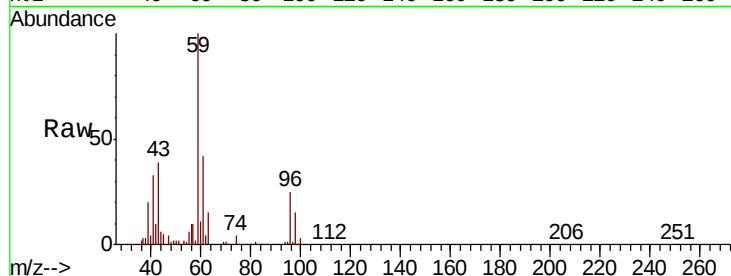
tert-Butyl alcohol
Concen: 1.541 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion	59.10 (58.80 to 59.80): VL0	Resp	152069
Ion Ratio	Lower	Upper	
59	100		
57	11.0	8.4	12.6

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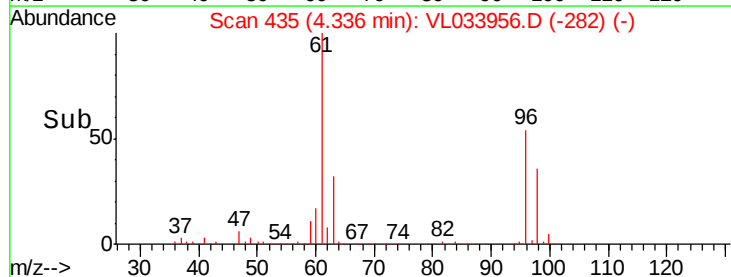
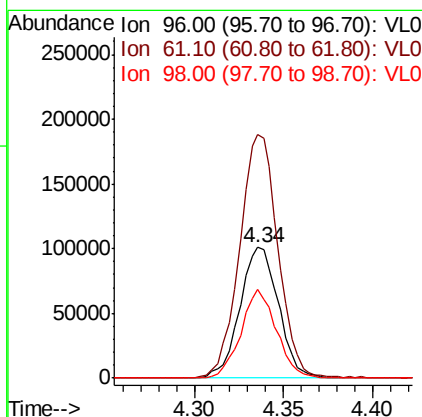
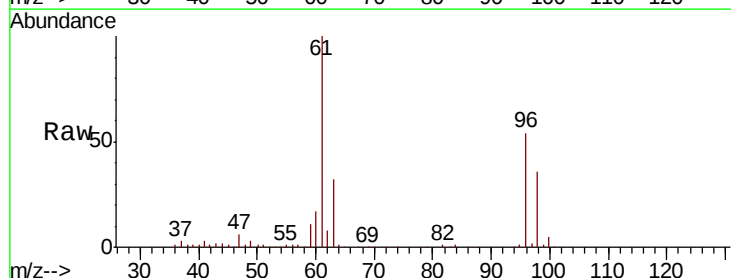
MMDadoda
6/26/2019 8:15:56 AM

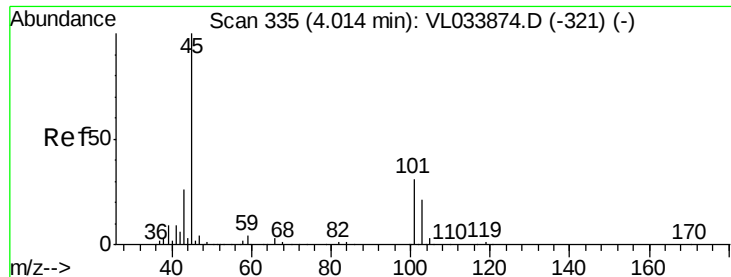


#18

1,1-Dichloroethene
Concen: 2.958 ppbv
RT: 4.34 min Scan# 435
Delta R.T. -0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion	96.00 (95.70 to 96.70): VL0	Resp	153045
Ion Ratio	Lower	Upper	
96	100		
61	186.5	147.0	220.6
98	67.6	49.4	74.0





#19

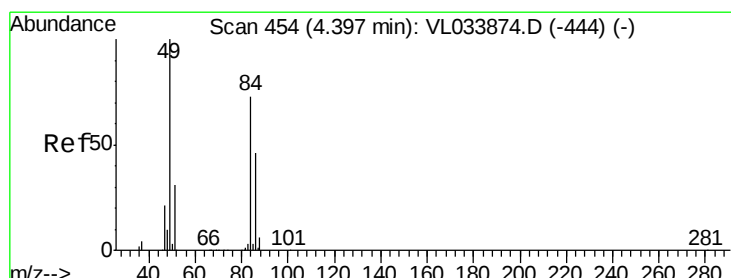
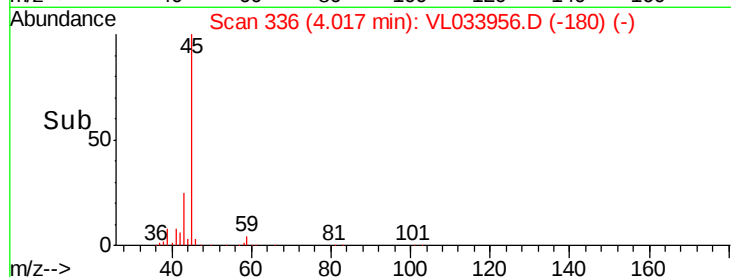
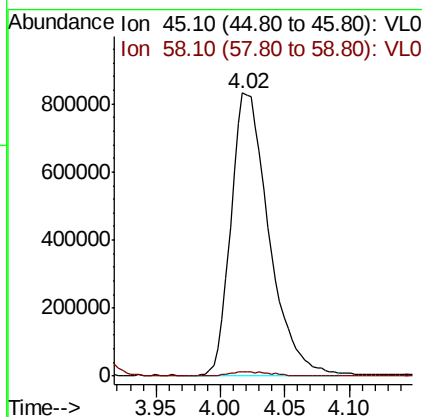
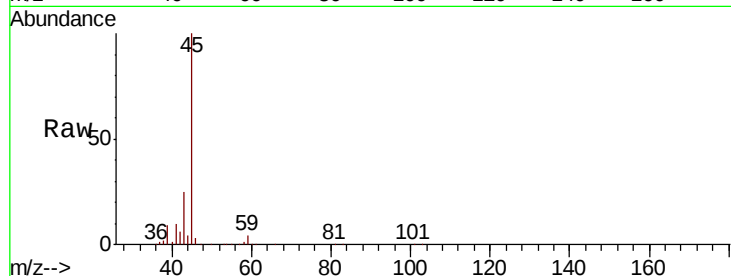
Isopropyl Alcohol
 Concen: 23.554 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL033956.D
 Acq: 25 Jun 2019 3:55

Instrument :
 MSVOA_L
 ClientSampleId :
 MID

Tot Ion: 45 Resp: 1699025
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.8 2.6#

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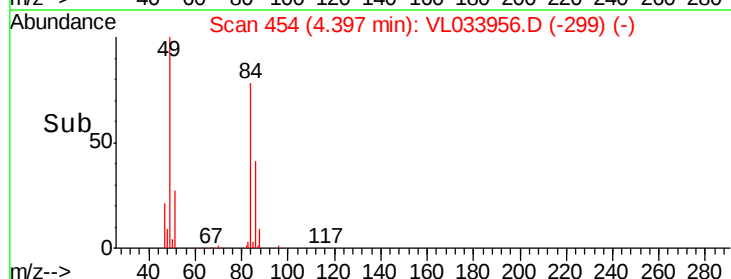
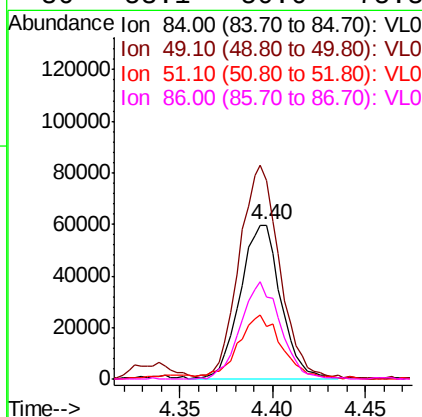
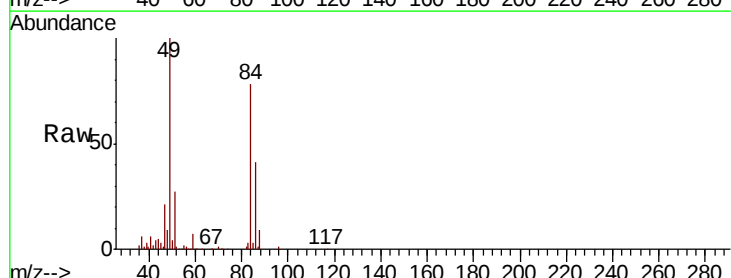
MMDadoda
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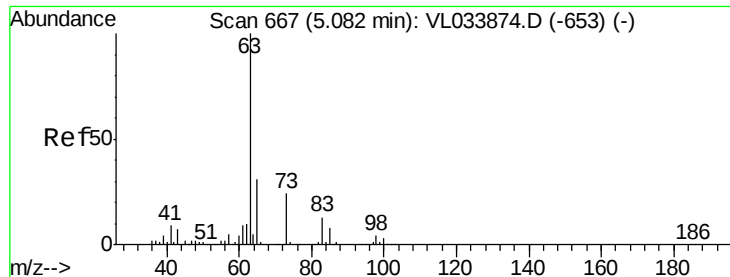


#20

Methylene Chloride
 Concen: 1.824 ppbv
 RT: 4.40 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VL033956.D
 Acq: 25 Jun 2019 3:55

Tgt Ion: 84 Resp: 89803
 Ion Ratio Lower Upper
 84 100
 49 127.3 110.0 165.0
 51 34.2 34.6 51.8#
 86 53.1 50.6 75.8





#24

1,1-Dichloroethane

Concen: 1.803 ppbv

RT: 5.07 min Scan# 664

Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

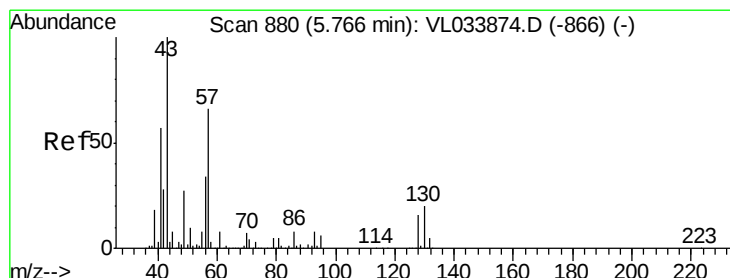
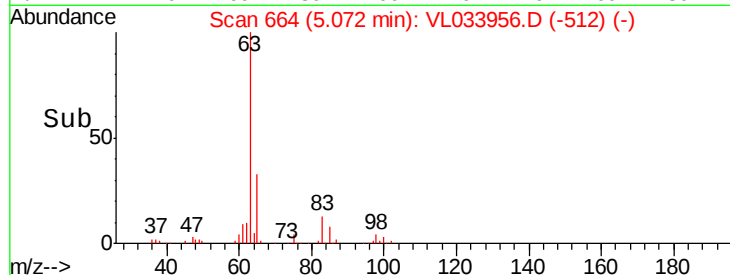
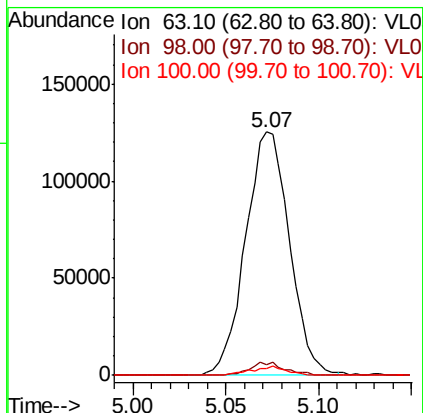
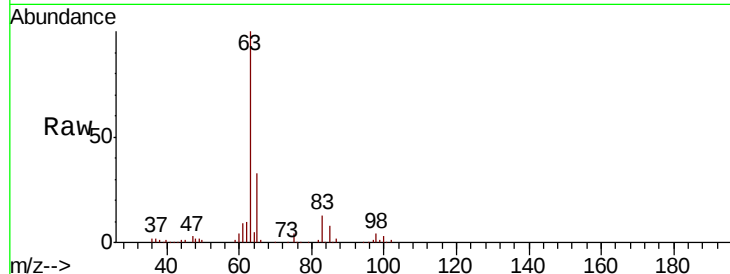
ClientSampleId :

MID

Tot Ion:	63	Resp:	205873
Ion Ratio	Lower	Upper	
63	100		
98	5.2	2.2	6.6
100	3.0	1.3	3.8

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#26

Hexane

Concen: 1.128 ppbv

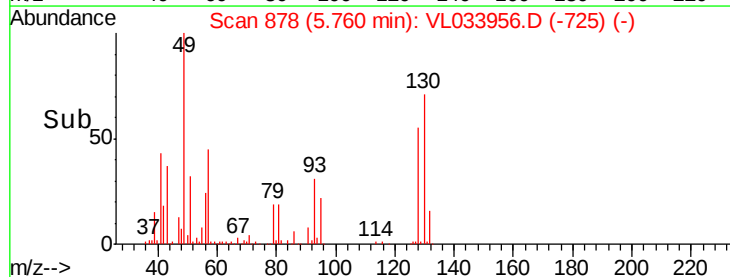
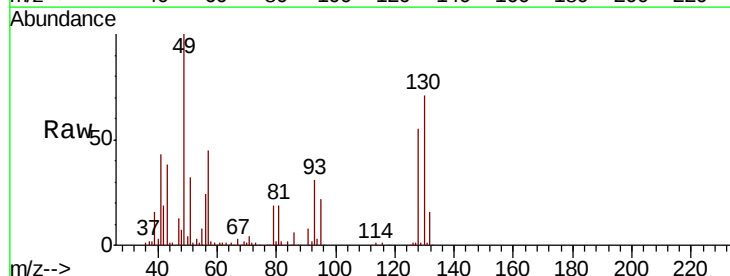
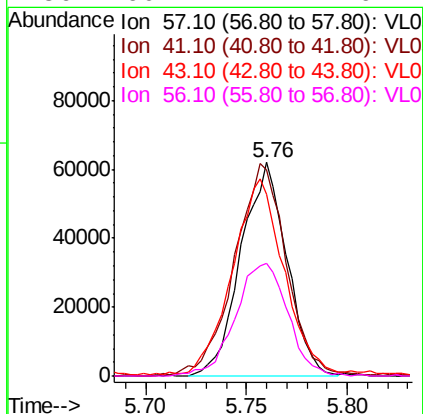
RT: 5.76 min Scan# 878

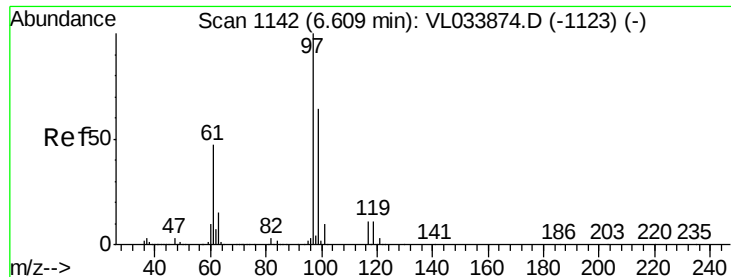
Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Tgt Ion:	57	Resp:	98749
Ion Ratio	Lower	Upper	
57	100		
41	113.7	71.4	107.2#
43	104.6	183.7	275.5#
56	60.4	42.7	64.1





#32

1,1,1-Trichloroethane

Concen: 0.880 ppbv

RT: 6.60 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

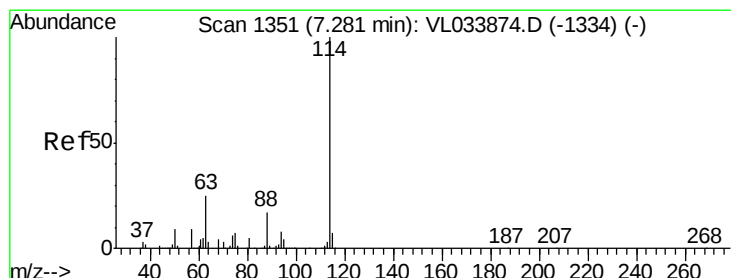
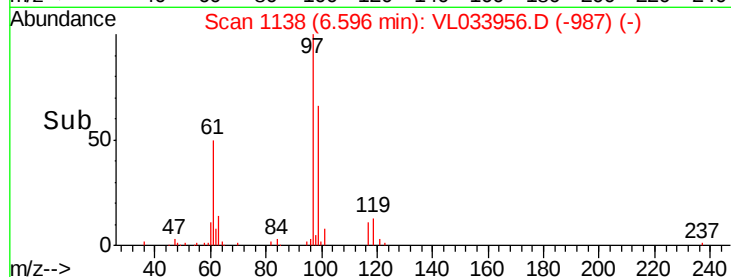
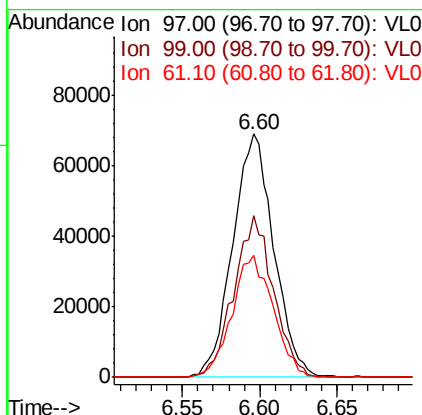
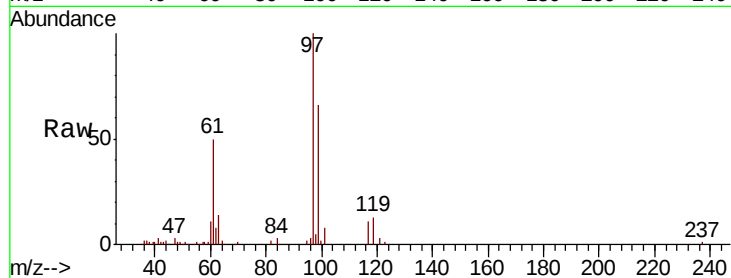
ClientSampled :

MID

Tot Ion:	97	Resp:	127343
Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.7	77.5
61	50.2	37.7	56.5

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

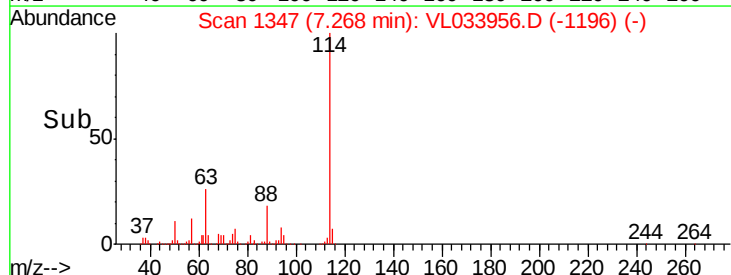
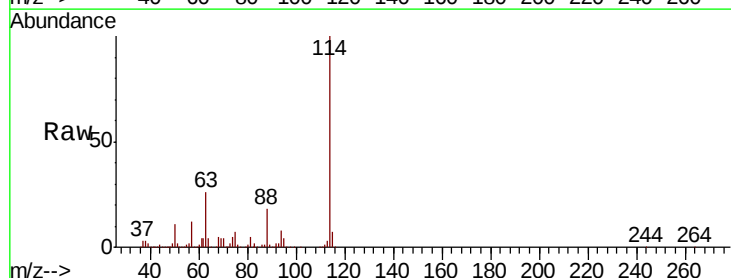
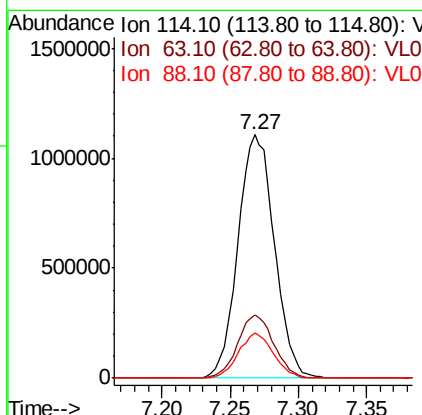
RT: 7.27 min Scan# 1347

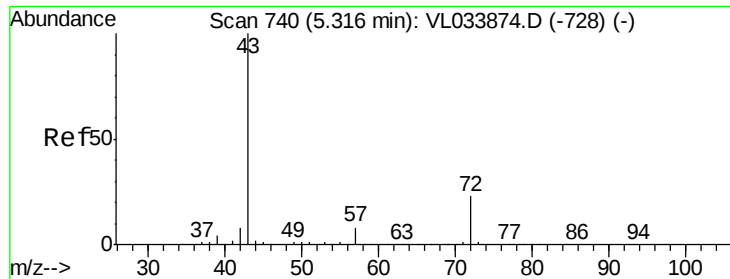
Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Tgt Ion:	114	Resp:	2054886
Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.1	31.7
88	17.7	14.2	21.4





#34

2-Butanone

Concen: 3.917 ppbv

RT: 5.31 min Scan# 738

Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

MID

Tot Ion: 43 Resp: 454083

Ion Ratio Lower Upper

43 100

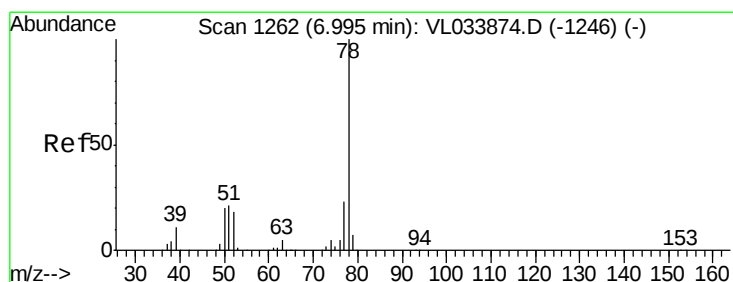
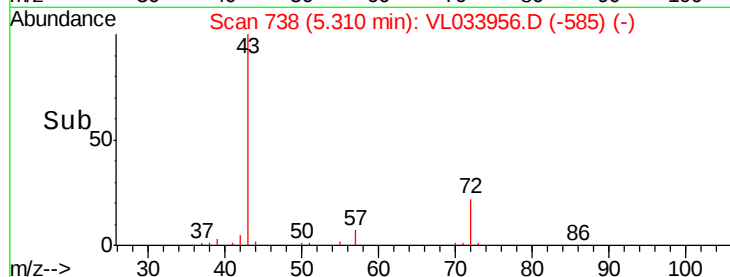
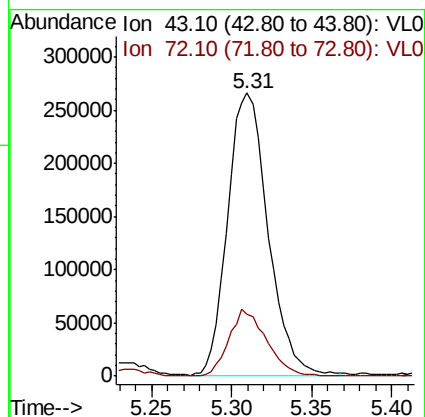
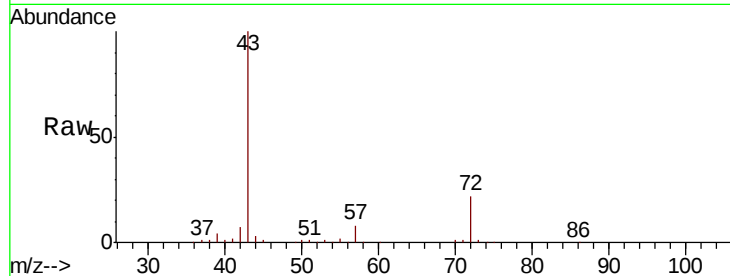
72 22.3 17.9 26.9

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#36

Benzene

Concen: 0.130 ppbv

RT: 6.98 min Scan# 1257

Delta R.T. -0.02 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

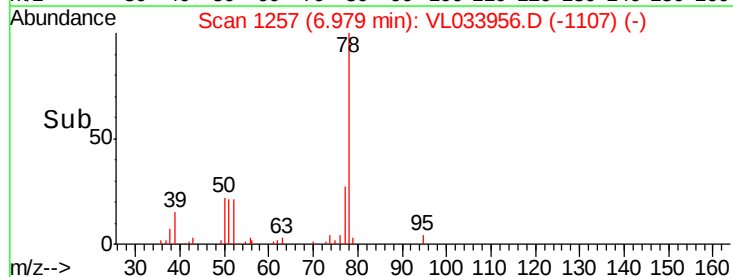
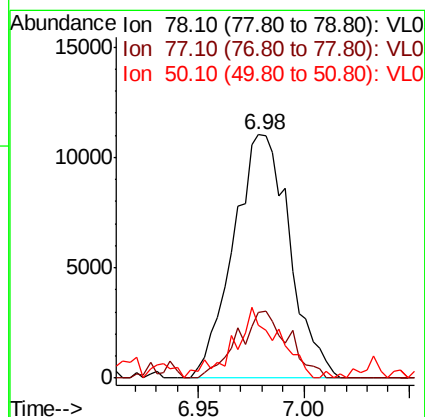
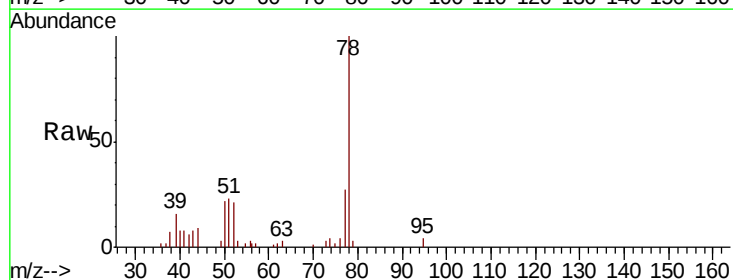
Tgt Ion: 78 Resp: 20414

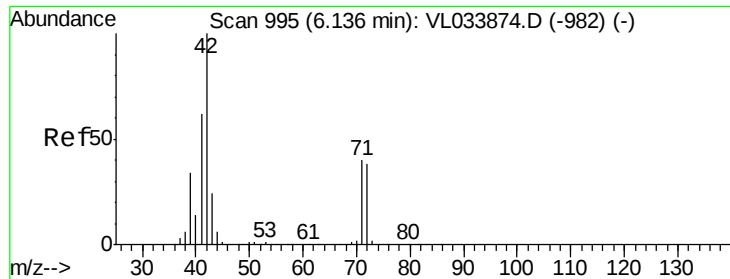
Ion Ratio Lower Upper

78 100

77 26.4 18.2 27.2

50 19.3 15.9 23.9





#41

Tetrahydrofuran

Concen: 8.528 ppbv

RT: 6.12 min Scan# 991

Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

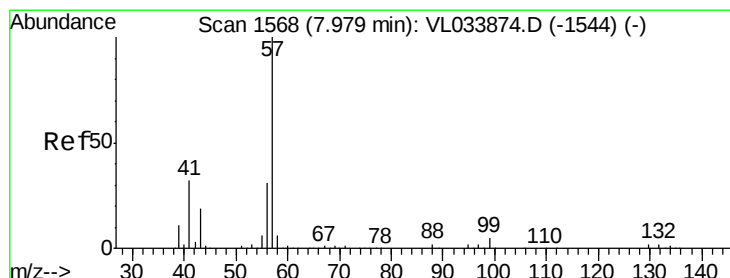
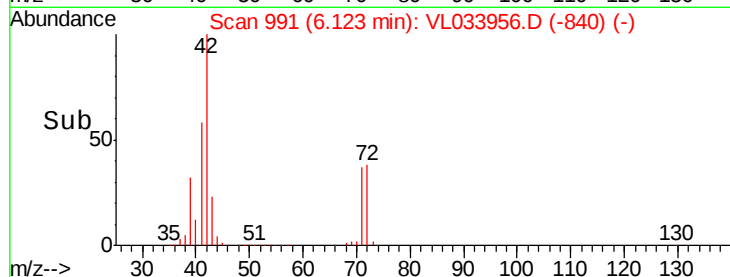
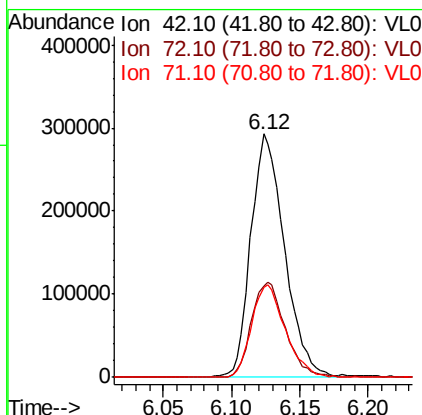
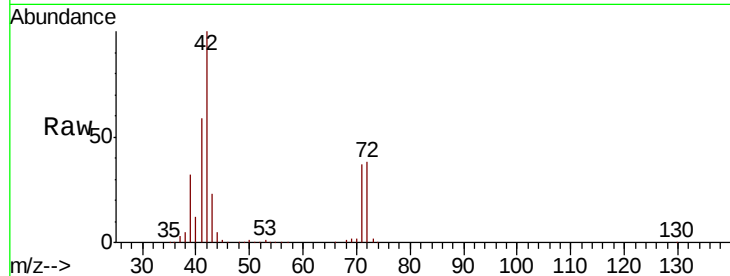
ClientSampleId :

MID

Tot Ion:	42	Resp:	501791
Ion Ratio		Lower	Upper
42	100		
72	39.5	32.2	48.4
71	38.2	31.7	47.5

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#44

2,2,4-Trimethylpentane

Concen: 0.277 ppbv

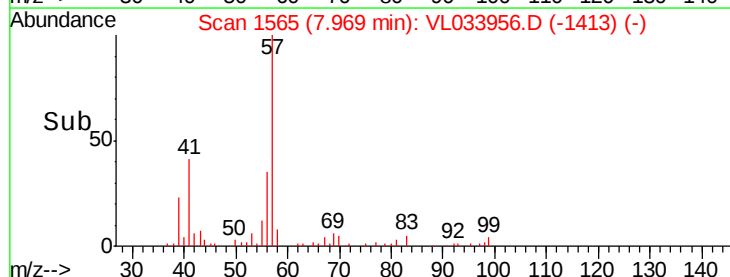
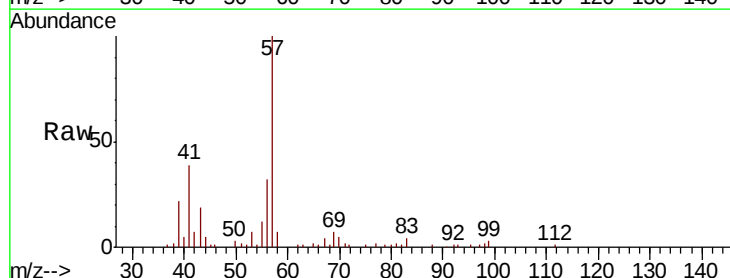
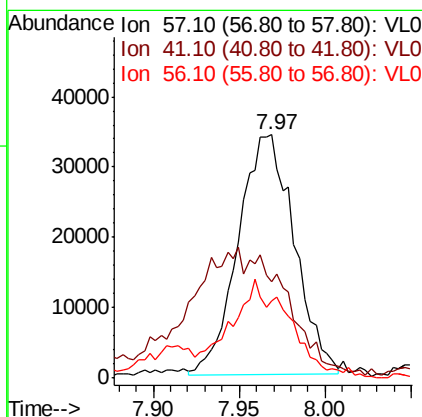
RT: 7.97 min Scan# 1565

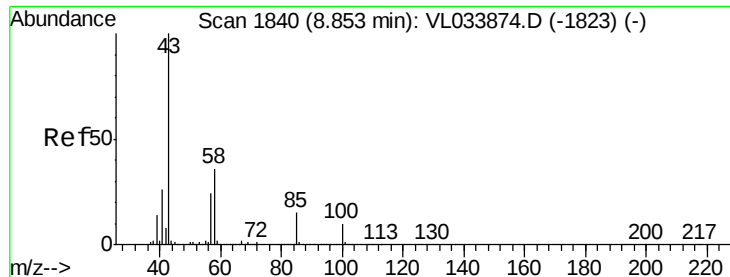
Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Tgt Ion:	57	Resp:	77297
Ion Ratio		Lower	Upper
57	100		
41	91.7	26.1	39.1#
56	55.6	24.6	36.8#





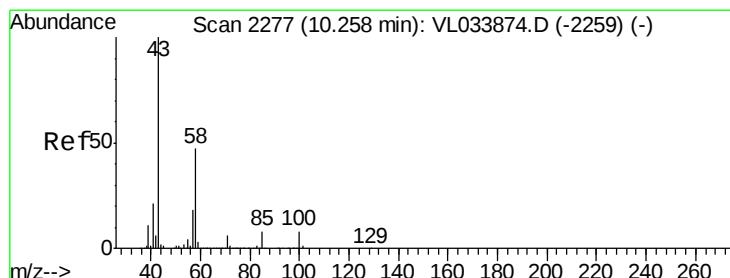
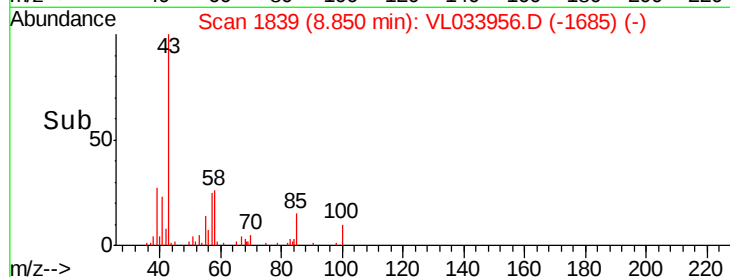
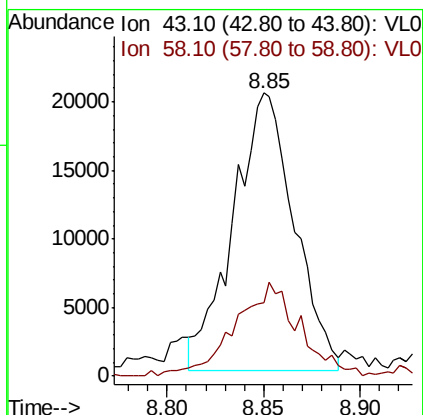
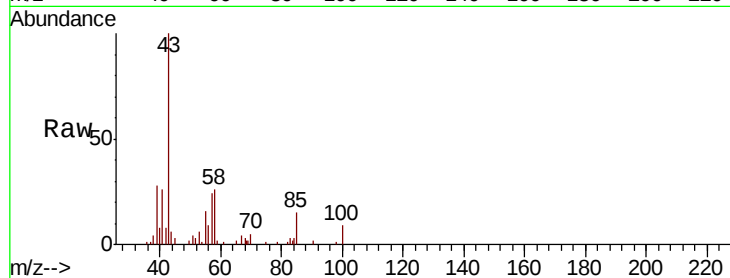
#50
4-Methyl-2-Pentanone
Concen: 0.258 ppbv
RT: 8.85 min Scan# 1839
Delta R.T. -0.00 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion	43	Resp	44645
Ion Ratio	Lower	Upper	
43	100		
58	37.0	28.6	42.8

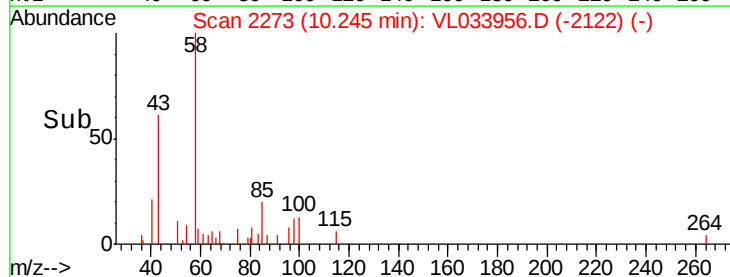
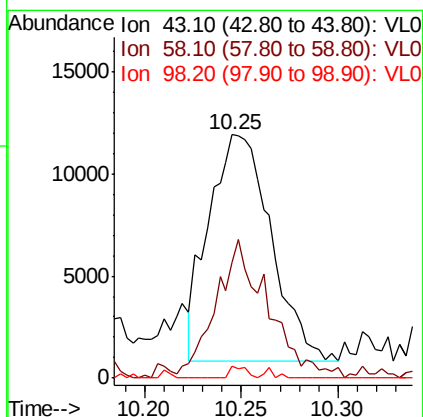
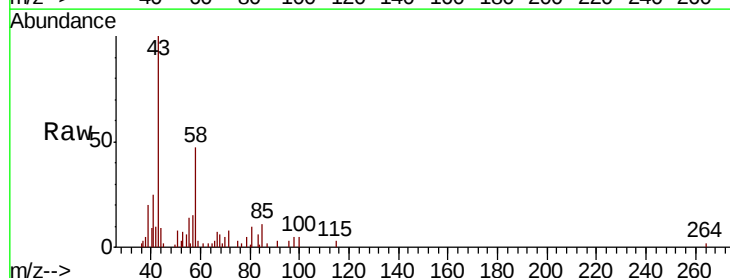
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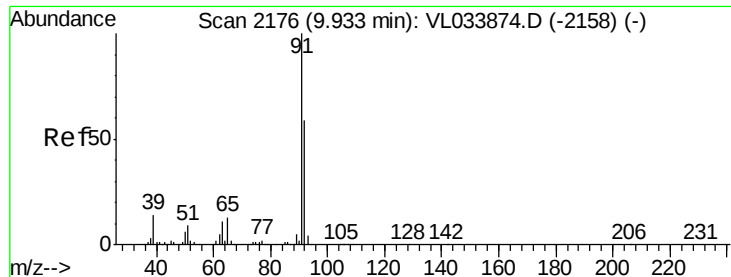
MMDadoda
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#51
2-Hexanone
Concen: 0.183 ppbv
RT: 10.25 min Scan# 2273
Delta R.T. -0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion	43	Resp	24730
Ion Ratio	Lower	Upper	
43	100		
58	54.3	38.2	57.4
98	2.1	0.2	0.2#





#53

Toluene

Concen: 3.517 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

ClientSampled :

MID

Tot Ion: 91 Resp: 610863

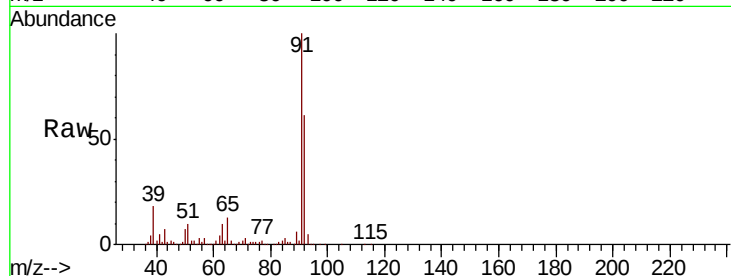
Ion Ratio Lower Upper

91 100

92 59.6 47.0 70.6

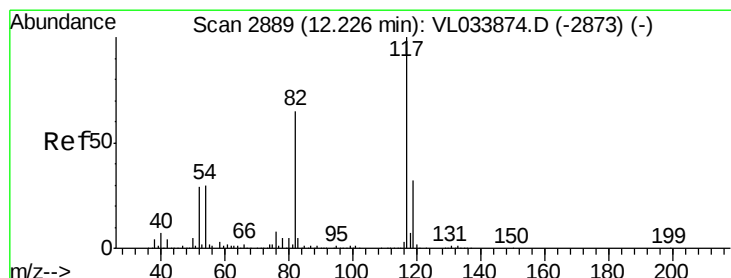
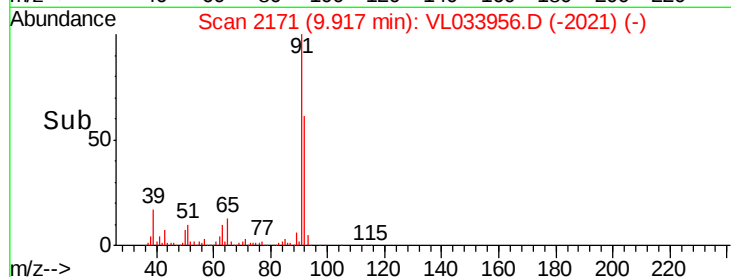
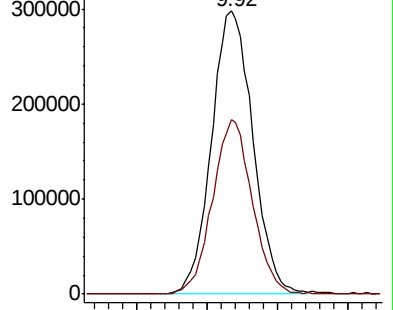
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

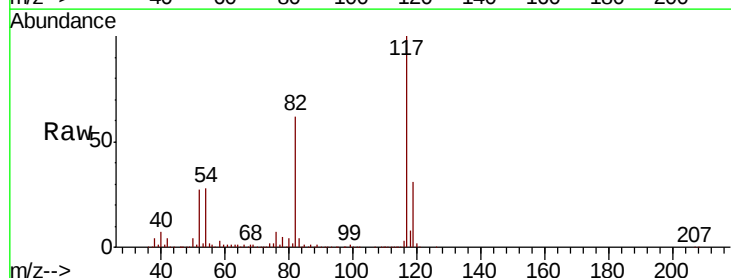
Tgt Ion: 117 Resp: 2466638

Ion Ratio Lower Upper

117 100

82 64.4 50.2 75.2

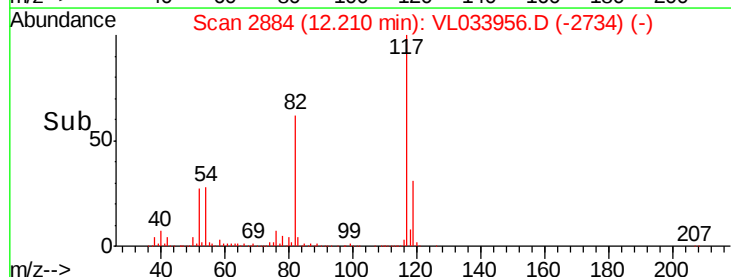
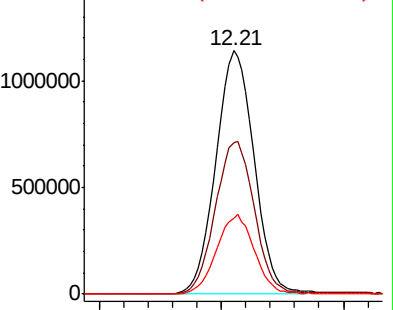
119 32.8 24.8 37.2

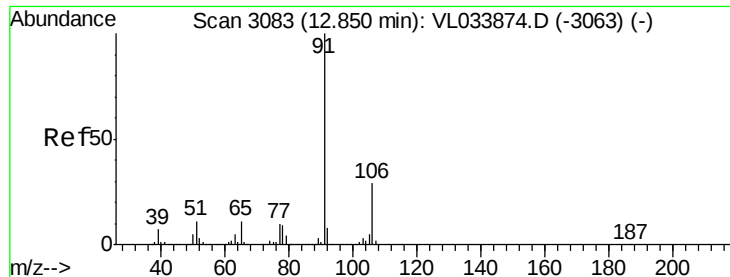


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





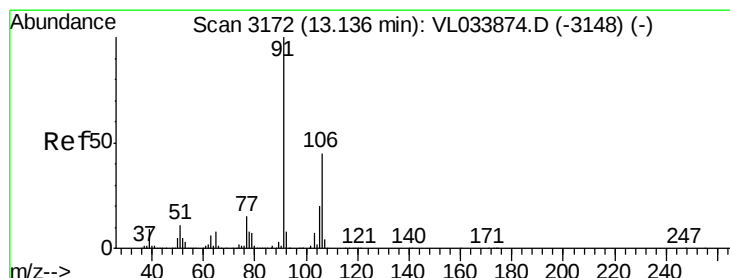
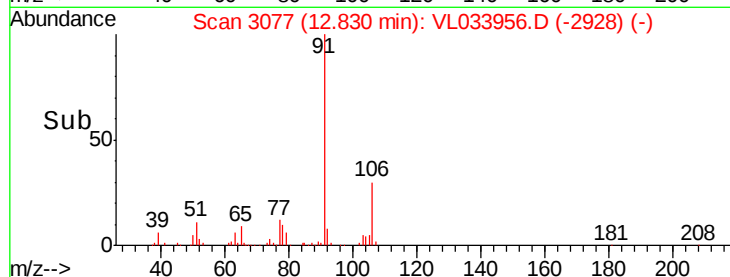
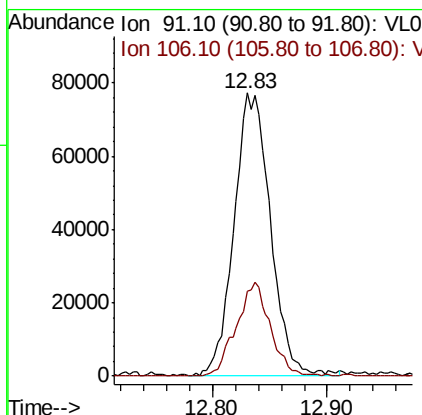
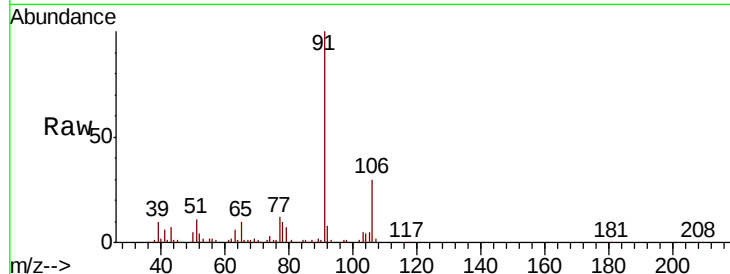
#58
Ethyl Benzene
Concen: 0.615 ppbv m
RT: 12.83 min Scan# 3077
Delta R.T. -0.02 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion: 91 Resp: 171123
Ion Ratio Lower Upper
91 100
106 30.0 23.0 34.6

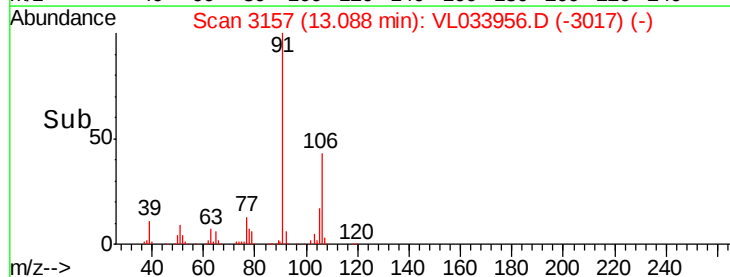
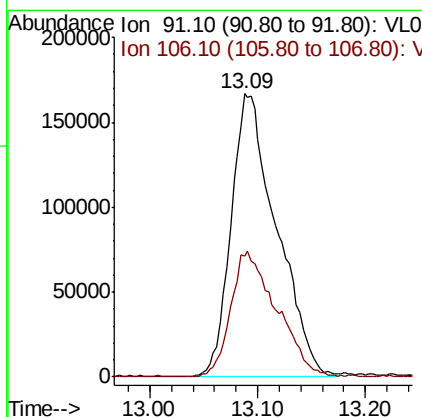
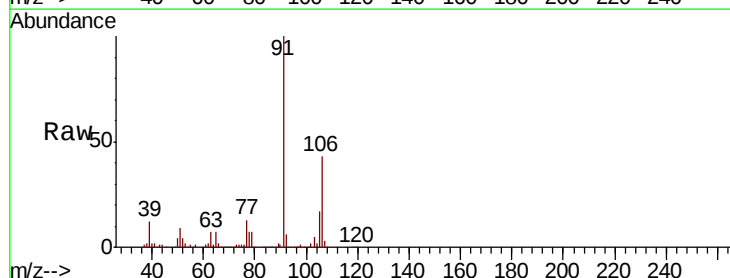
Manual Integrations
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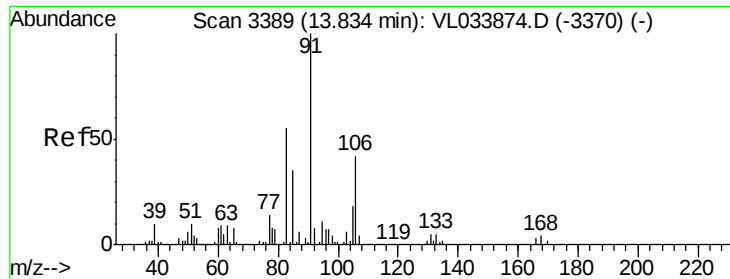
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#59
m/p-Xylene
Concen: 1.922 ppbv
RT: 13.09 min Scan# 3157
Delta R.T. -0.05 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion: 91 Resp: 485977
Ion Ratio Lower Upper
91 100
106 45.2 35.8 53.8





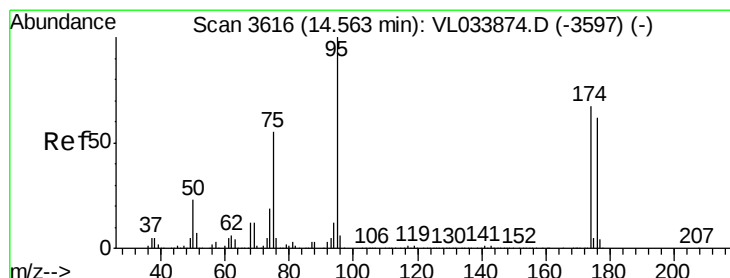
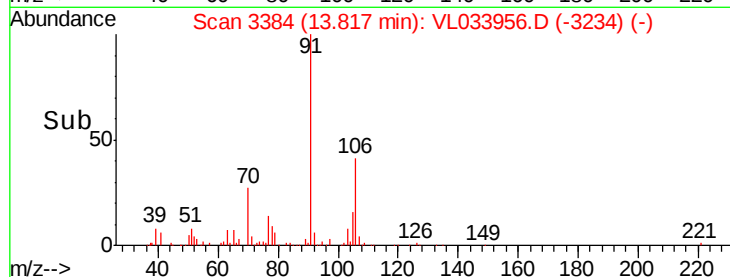
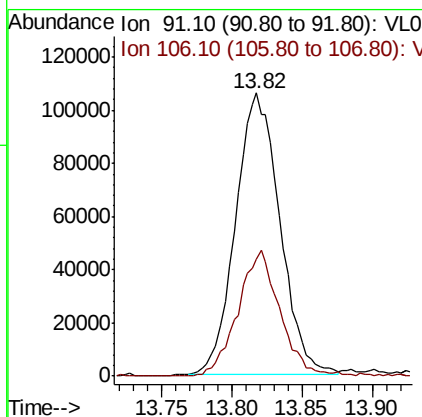
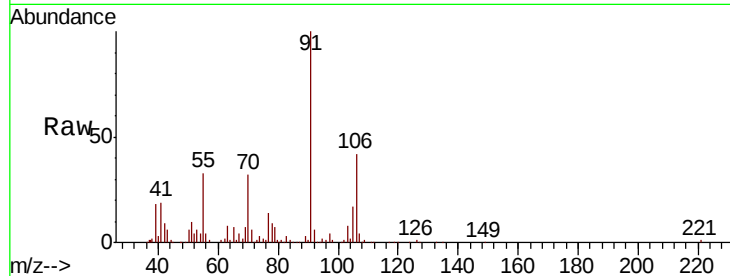
#60
o-Xylene
Concen: 0.892 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion: 91 Resp: 232883
Ion Ratio Lower Upper
91 100
106 42.7 21.7 65.1

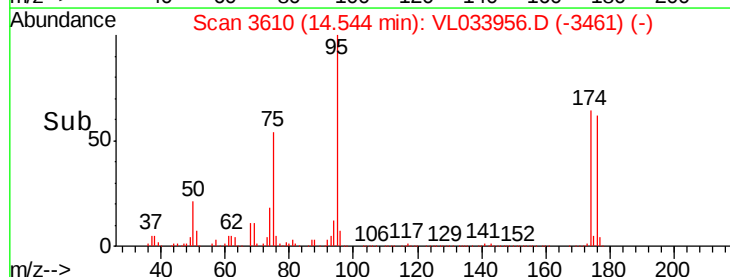
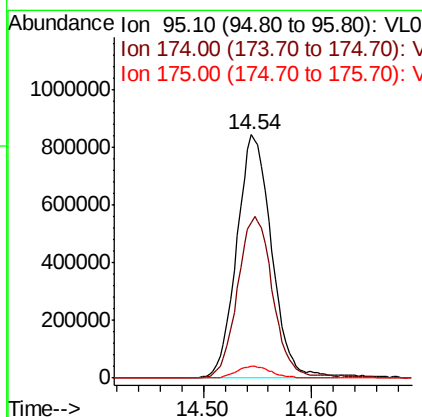
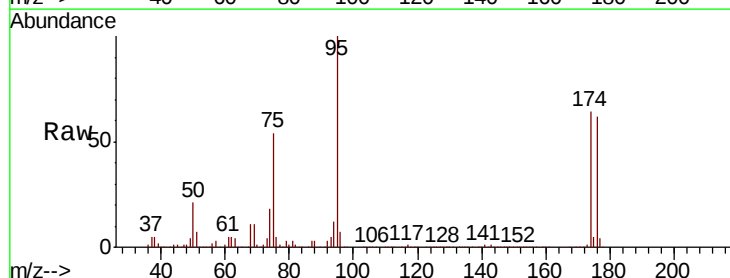
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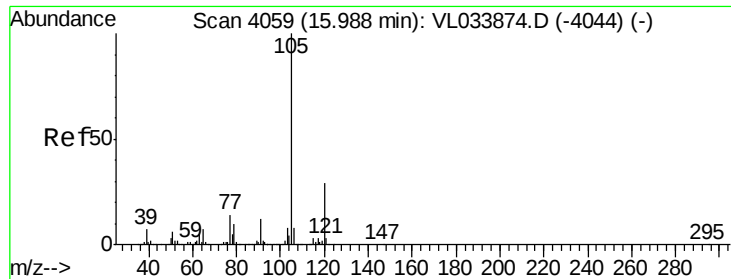
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.359 ppbv
RT: 14.54 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion: 95 Resp: 1896155
Ion Ratio Lower Upper
95 100
174 68.0 54.0 81.0
175 4.9 3.8 5.8





#72

4-Ethyltoluene

Concen: 0.210 ppbv m

RT: 15.97 min Scan# 4053

Delta R.T. -0.02 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Instrument :

MSVOA_L

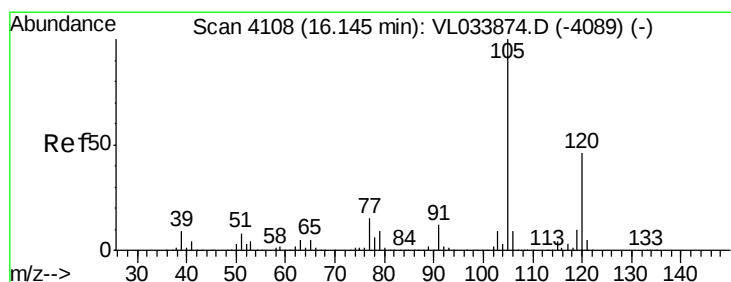
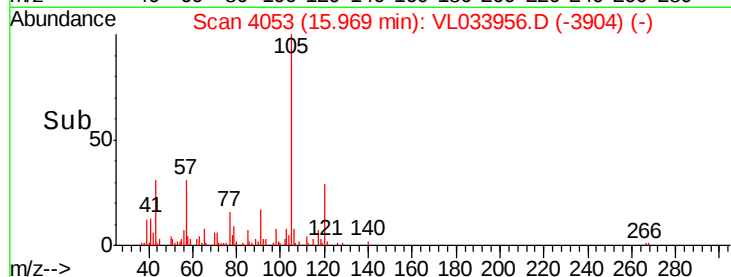
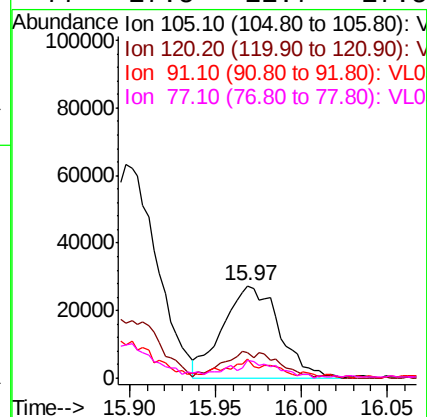
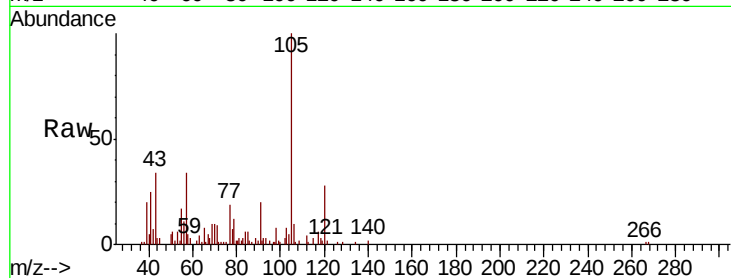
ClientSampled :

MID

Tot Ion:	105	Resp:	62490
Ion Ratio	Lower	Upper	
105	100		
120	29.0	23.5	35.3
91	18.6	10.4	15.6
77	17.5	11.7	17.5

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#73

1,3,5-Trimethylbenzene

Concen: 0.174 ppbv m

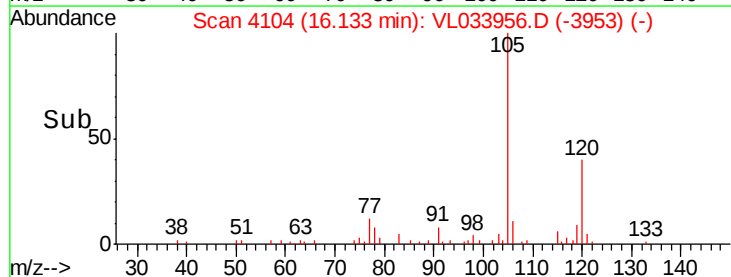
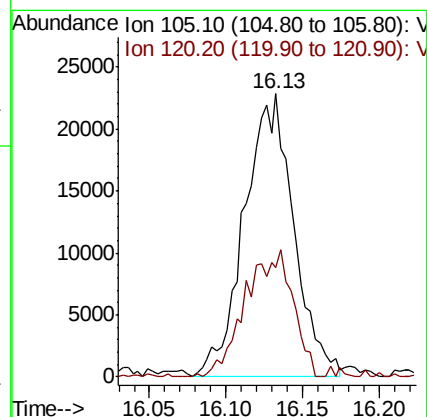
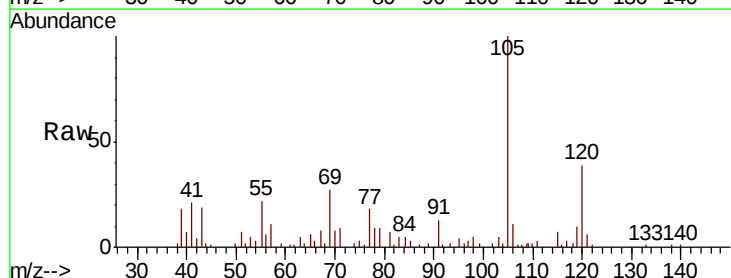
RT: 16.13 min Scan# 4104

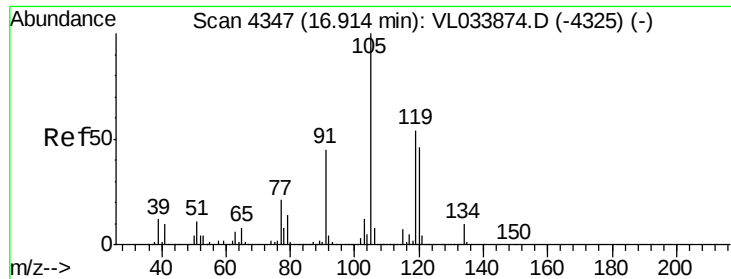
Delta R.T. -0.01 min

Lab File: VL033956.D

Acq: 25 Jun 2019 3:55

Tgt Ion:	105	Resp:	51055
Ion Ratio	Lower	Upper	
105	100		
120	38.8	37.1	55.7





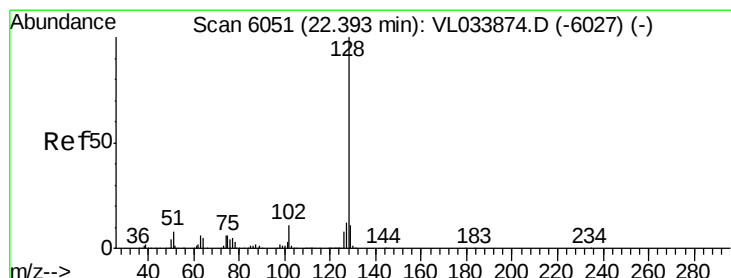
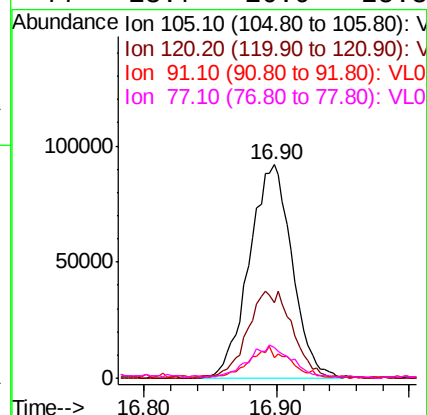
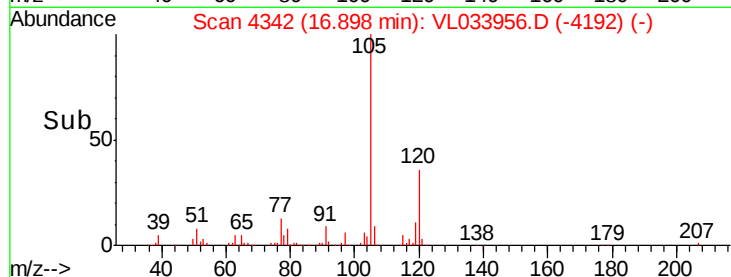
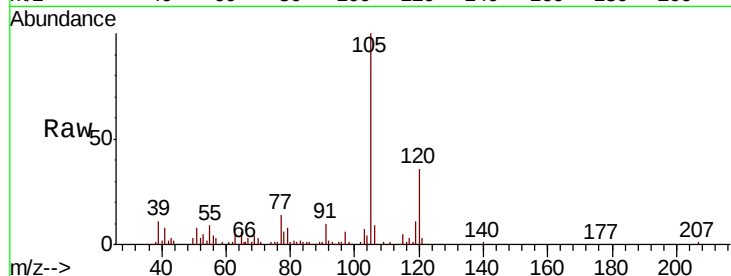
#74
 1,2,4-Trimethylbenzene
 Concen: 0.612 ppbv
 RT: 16.90 min Scan# 4342
 Delta R.T. -0.02 min
 Lab File: VL033956.D
 Acq: 25 Jun 2019 3:55

Instrument :
 MSVOA_L
 ClientSampled :
 MID

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	35.6	36.7	55.1#
91	9.0	35.8	53.8#
77	13.7	16.9	25.3#

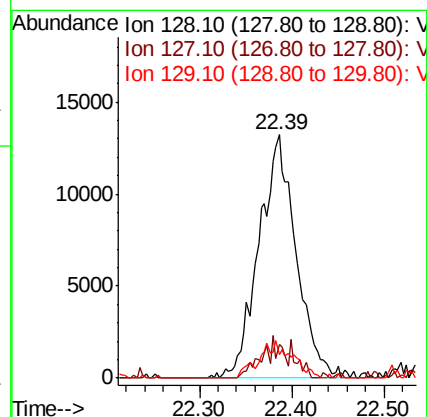
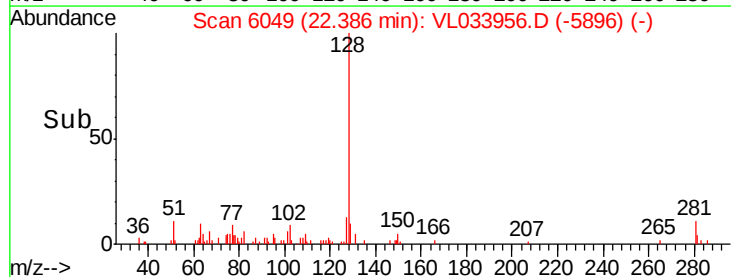
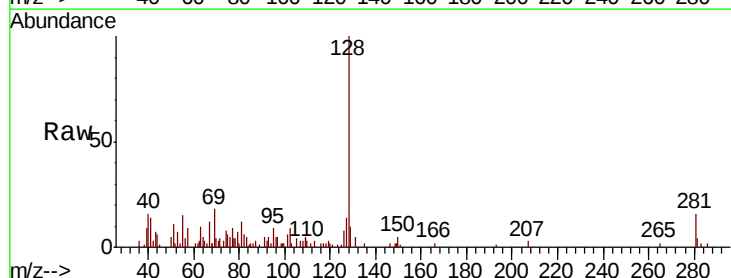
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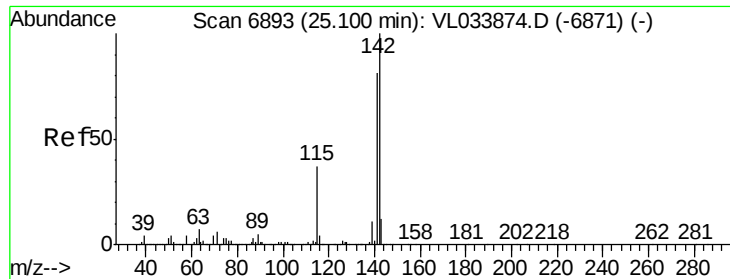
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#79
 Naphthalene
 Concen: 0.137 ppbv m
 RT: 22.39 min Scan# 6049
 Delta R.T. -0.01 min
 Lab File: VL033956.D
 Acq: 25 Jun 2019 3:55

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
127	13.6	9.7	14.5
129	9.5	8.6	12.8





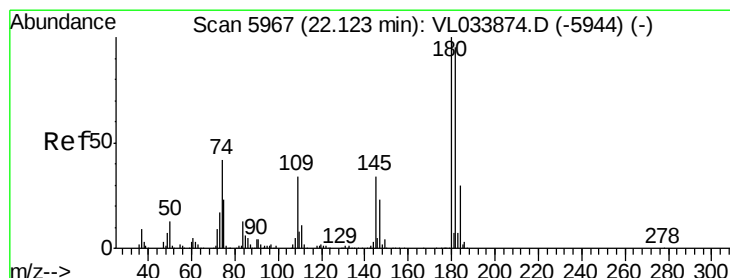
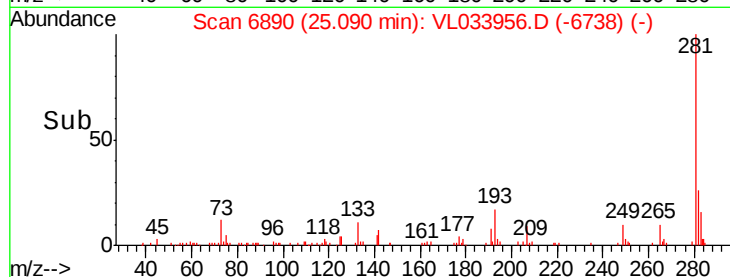
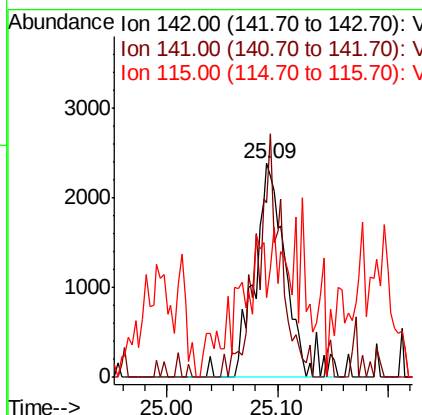
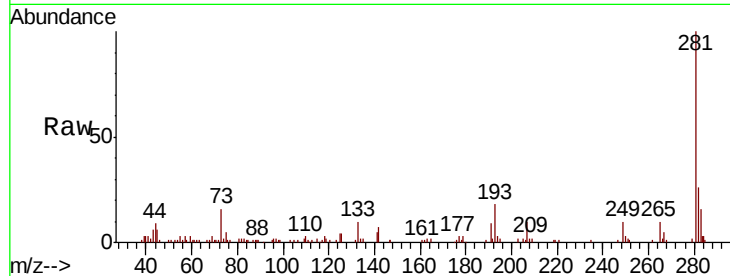
#80
Naphthalene, 2-methyl-
Concen: 0.043 ppbv
RT: 25.09 min Scan# 6890
Delta R.T. -0.01 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Instrument :
MSVOA_L
ClientSampleId :
MID

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	65.7	98.5
115	0.0	28.9	43.3

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#81
1,2,4-Trichlorobenzene
Concen: 0.562 ppbv
RT: 21.66 min Scan# 5822
Delta R.T. -0.47 min
Lab File: VL033956.D
Acq: 25 Jun 2019 3:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	16.8	76.9	115.3
184	0.8	24.5	36.7

