

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034470.D
 Acq On : 9 Dec 2019 18:47
 Operator : SY/AP
 Sample : K6195-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 5S-TE

Manual Integrations
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Quant Time: Dec 11 11:28:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	856589	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1693585	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1846135	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1548800	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	76043	0.491	ppbv	90
3) Chlorodifluoromethane	2.96	51	106207m	0.994	ppbv	
4) Chloromethane	3.11	50	28174	0.447	ppbv	93
9) Propene	2.99	41	36827	0.776	ppbv #	75
10) Heptane	8.15	43	35955m	0.294	ppbv	
11) Trichlorofluoromethane	3.93	101	44662	0.290	ppbv #	78
13) Ethanol	3.60	45	2154069	162.971	ppbv	95
15) Acetone	3.83	43	1113294	9.076	ppbv	98
17) tert-Butyl alcohol	4.30	59	46287	0.449	ppbv #	93
19) Isopropyl Alcohol	3.97	45	1338732	17.027	ppbv	100
20) Methylene Chloride	4.34	84	141836	3.261	ppbv	97
26) Hexane	5.69	57	222272	2.363	ppbv #	42
27) Carbon Disulfide	4.55	76	27306	0.267	ppbv #	81
30) Cyclohexane	7.16	84	12518m	0.176	ppbv	
34) 2-Butanone	5.25	43	108241	0.776	ppbv	97
35) Carbon Tetrachloride	7.03	117	12972m	0.089	ppbv	
36) Benzene	6.91	78	65918	0.389	ppbv	93
38) Trichloroethene	7.86	130	4691m	0.068	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	143699	0.464	ppbv #	85
50) 4-Methyl-2-Pentanone	8.78	43	122744	0.609	ppbv	96
52) Tetrachloroethene	11.27	164	134802	1.840	ppbv	94
53) Toluene	9.84	91	236357	1.229	ppbv	96
58) Ethyl Benzene	12.76	91	146032m	0.510	ppbv	
59) m/p-Xylene	13.02	91	541796m	2.188	ppbv	
60) o-Xylene	13.74	91	77455m	0.316	ppbv	
64) n-propylbenzene	15.62	120	18071m	0.215	ppbv	
72) 4-Ethyltoluene	15.90	105	125843	0.445	ppbv	97
73) 1,3,5-Trimethylbenzene	16.05	105	175858	0.635	ppbv	87
74) 1,2,4-Trimethylbenzene	16.82	105	514296	1.748	ppbv #	65
79) Naphthalene	22.29	128	42320m	0.166	ppbv	

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

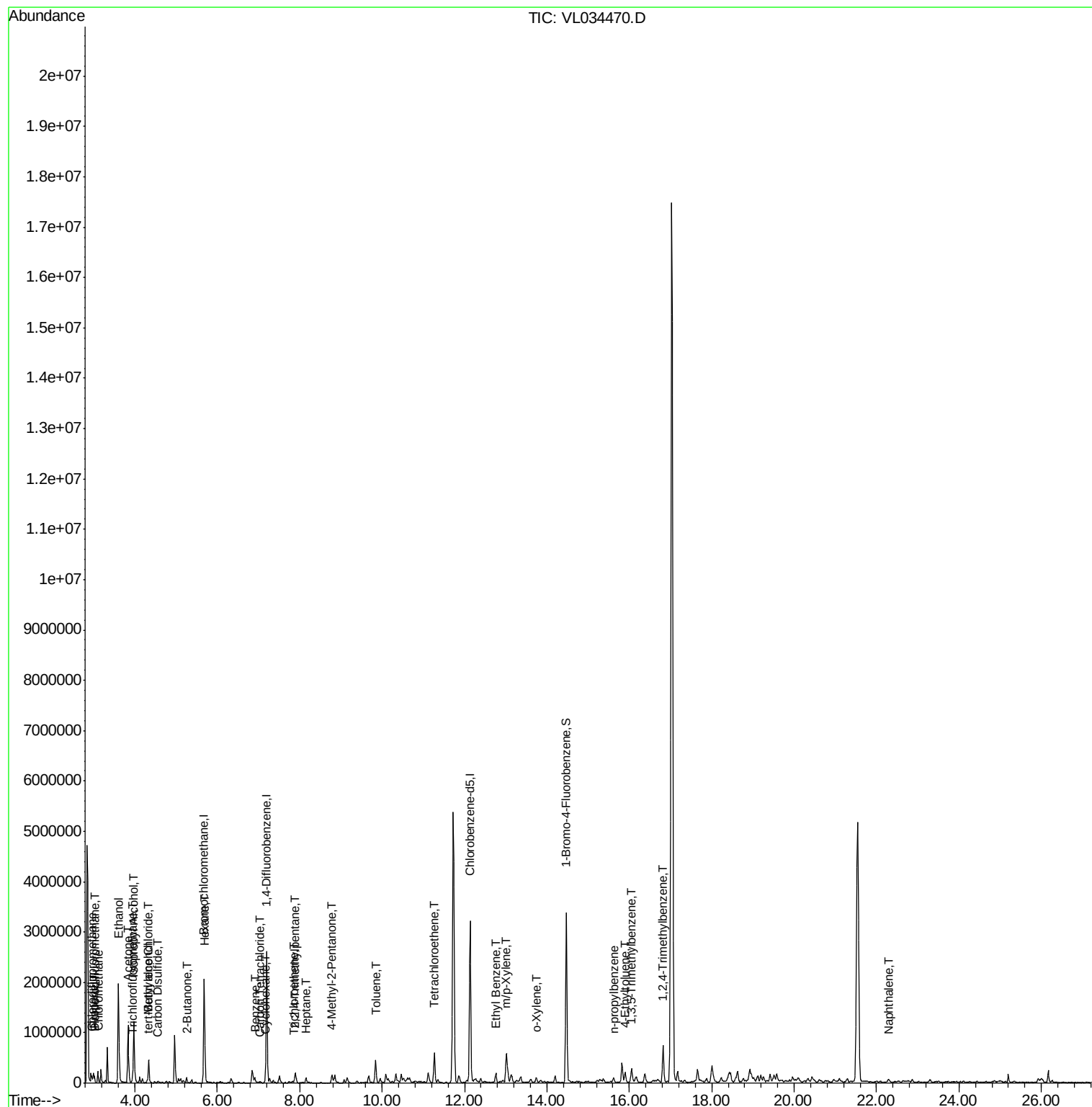
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120919\
Data File : VL034470.D
Acq On : 9 Dec 2019 18:47
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

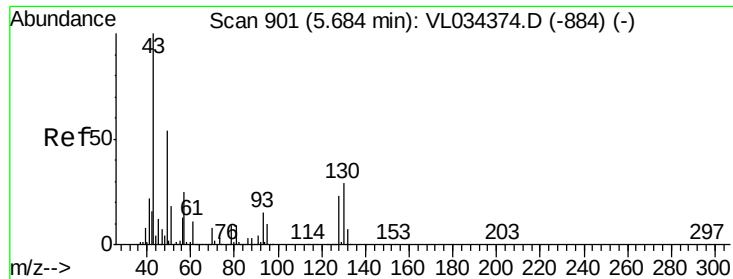
Instrument :
MSVOA_L
ClientSampleId :
5S-TE

Manual Integrations
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Quant Time: Dec 11 11:28:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Instrument :

MSVOA_L

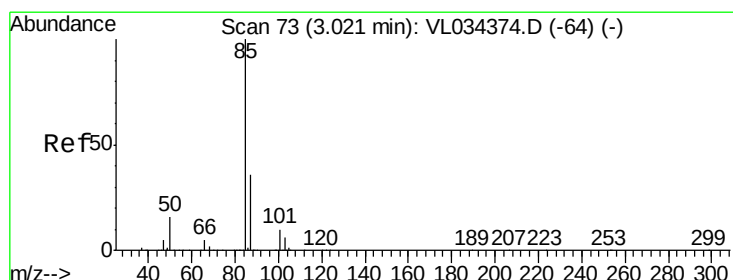
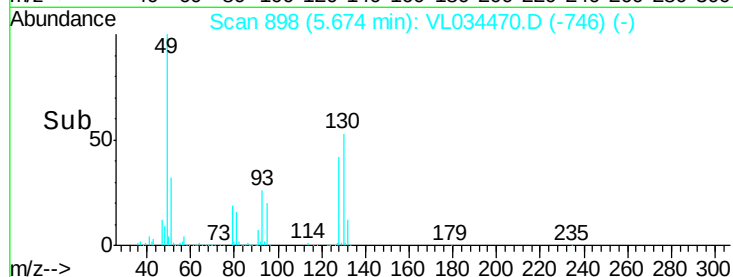
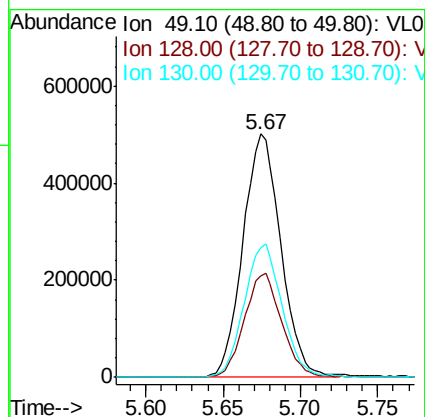
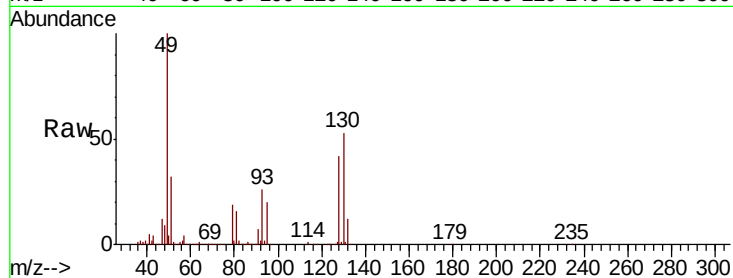
ClientSampled :

5S-TE

Tot Ion:	49	Resp:	856589
Ion	Ratio	Lower	Upper
49	100		
128	42.6	21.8	65.3
130	55.2	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.491 ppbv

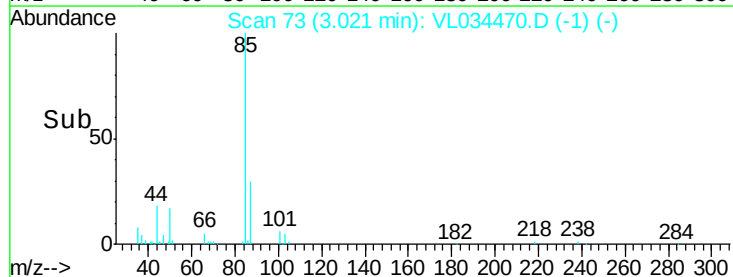
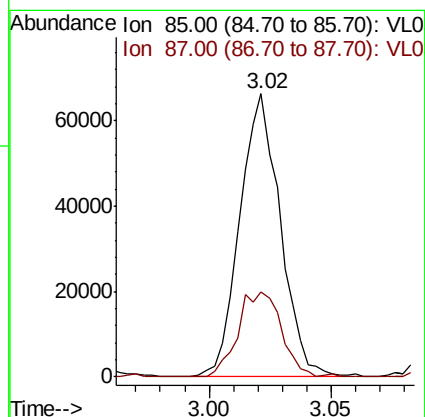
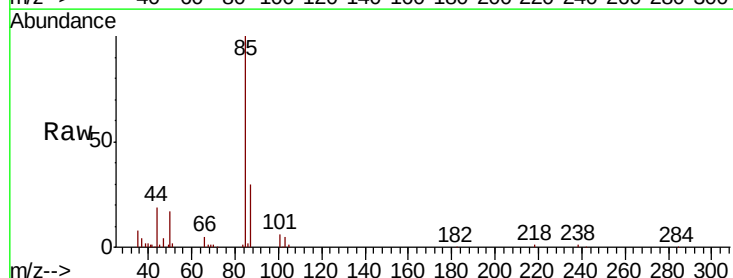
RT: 3.02 min Scan# 73

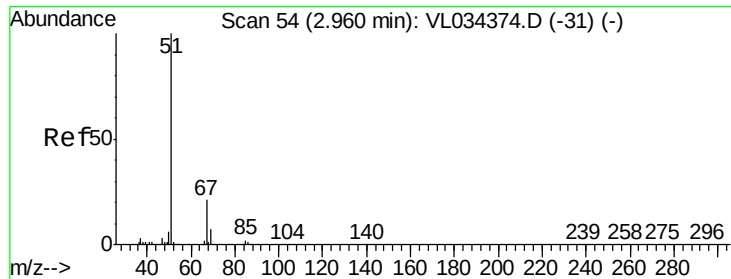
Delta R.T. -0.00 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Tgt Ion:	85	Resp:	76043
Ion	Ratio	Lower	Upper
85	100		
87	29.9	28.5	42.7





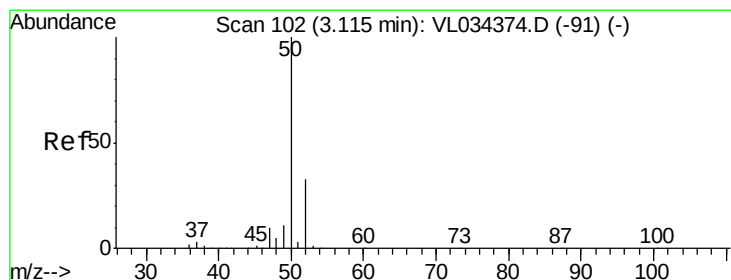
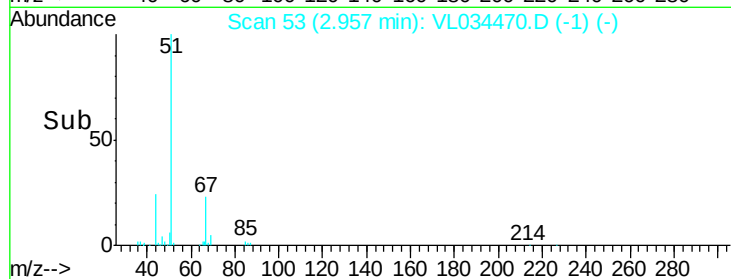
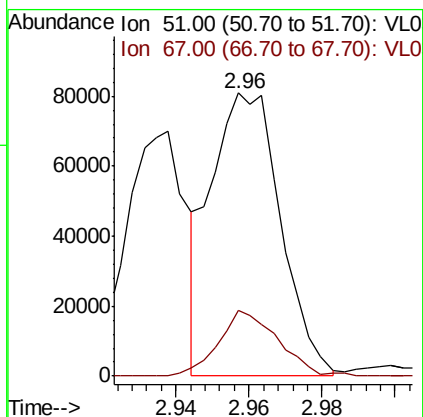
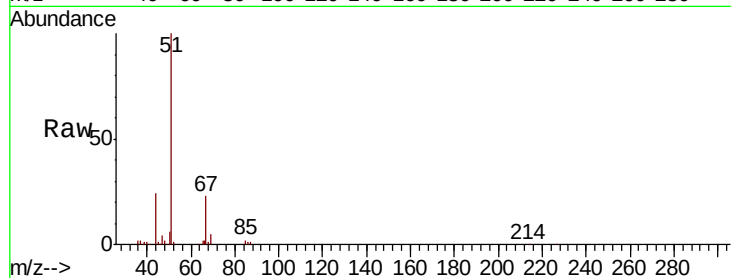
#3
Chlorodifluoromethane
Concen: 0.994 ppbv
RT: 2.96 min Scan# 53
Delta R.T. -0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampleId :
5S-TE

Tot Ion	Ratio	Lower	Upper
51	100		
67	20.1	16.2	24.2

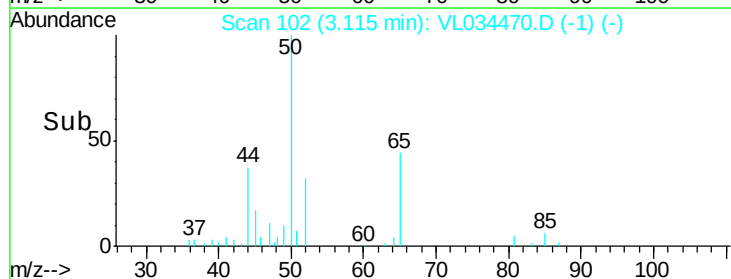
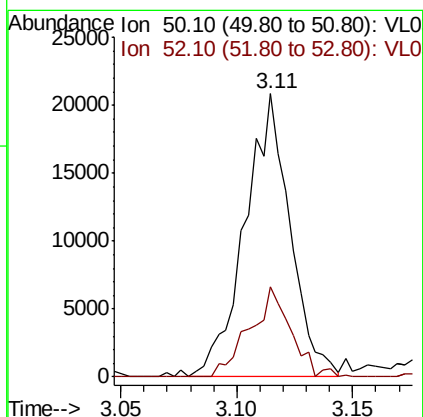
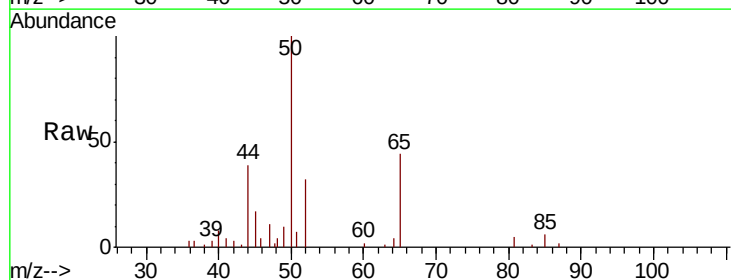
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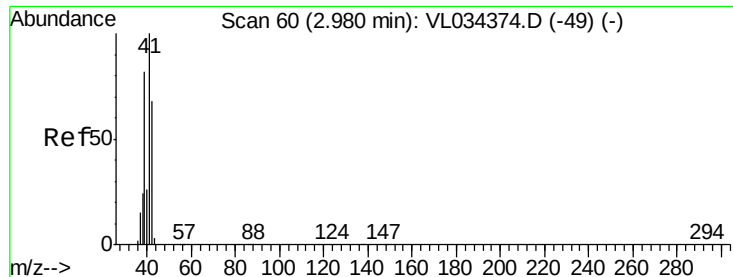
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#4
Chloromethane
Concen: 0.447 ppbv
RT: 3.11 min Scan# 102
Delta R.T. -0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.6	26.8	40.2





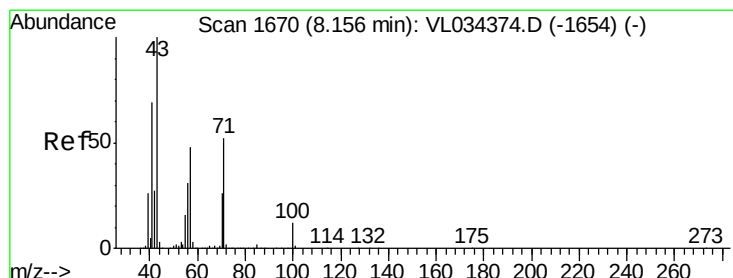
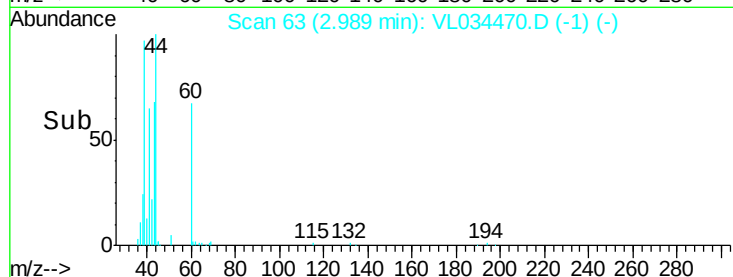
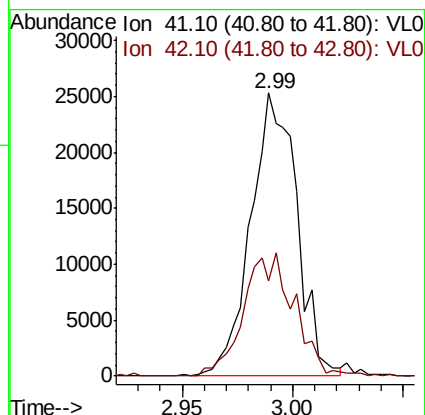
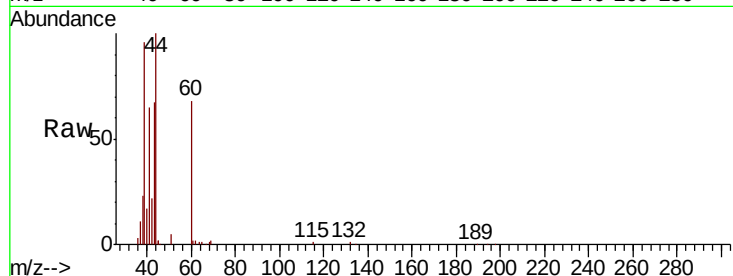
#9
Propene
Concen: 0.776 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampleId :
5S-TE

Tot Ion: 41 Resp: 36827
Ion Ratio Lower Upper
41 100
42 47.7 54.6 82.0#

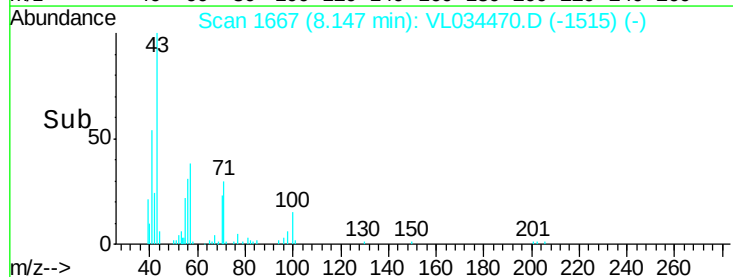
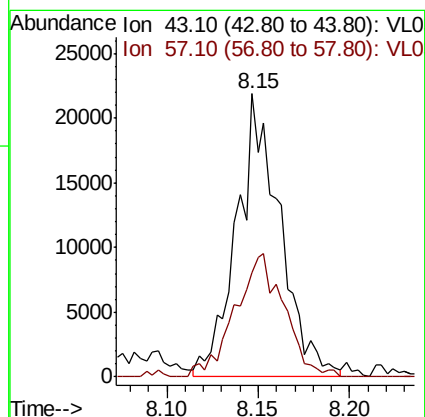
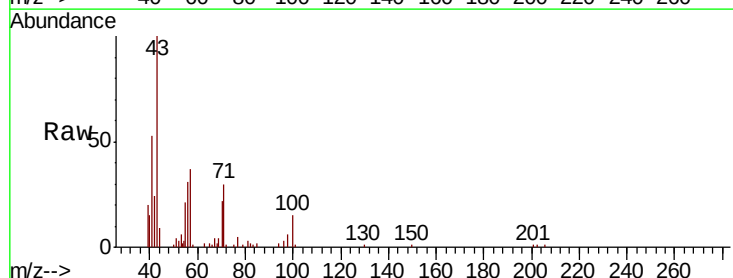
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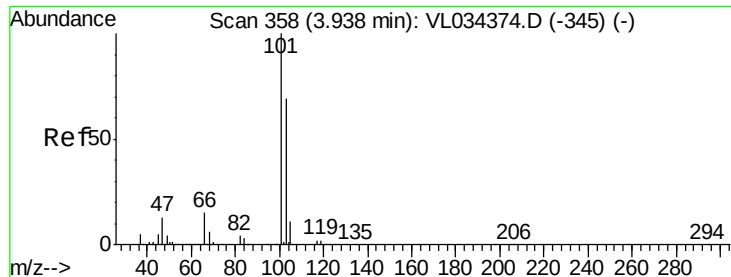
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#10
Heptane
Concen: 0.294 ppbv m
RT: 8.15 min Scan# 1667
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion: 43 Resp: 35955
Ion Ratio Lower Upper
43 100
57 0.0 40.2 60.2#





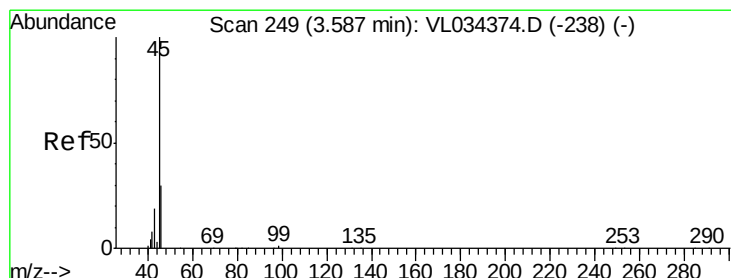
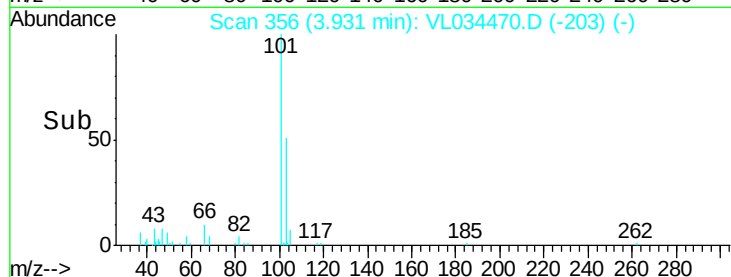
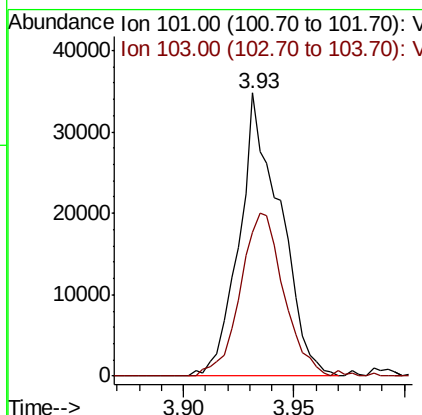
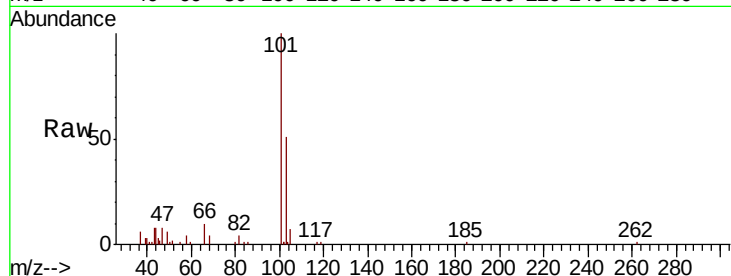
#11
 Trichlorofluoromethane
 Concen: 0.290 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VL034470.D
 Acq: 9 Dec 2019 18:47

Instrument :
 MSVOA_L
 ClientSampled :
 5S-TE

Tot Ion:101 Resp: 44662
 Ion Ratio Lower Upper
 101 100
 103 51.5 55.4 83.0#

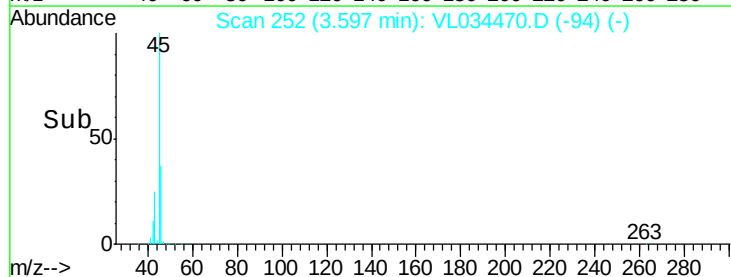
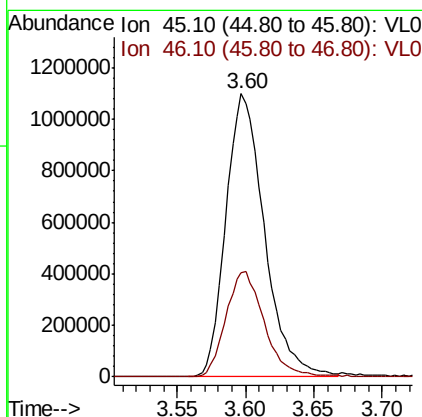
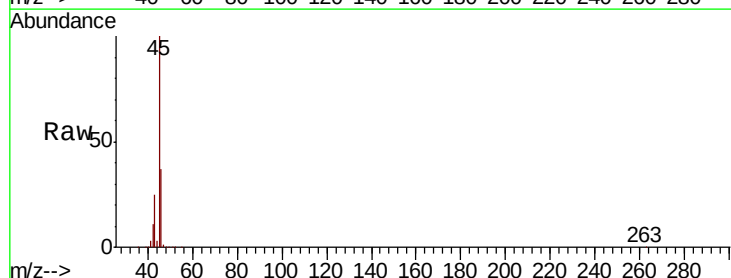
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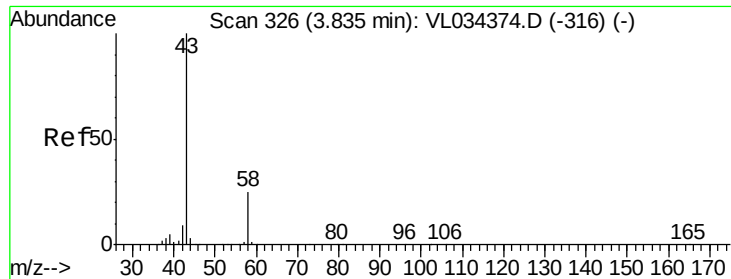
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#13
 Ethanol
 Concen: 162.971 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. 0.01 min
 Lab File: VL034470.D
 Acq: 9 Dec 2019 18:47

Tgt Ion: 45 Resp: 2154069
 Ion Ratio Lower Upper
 45 100
 46 37.3 13.8 55.4





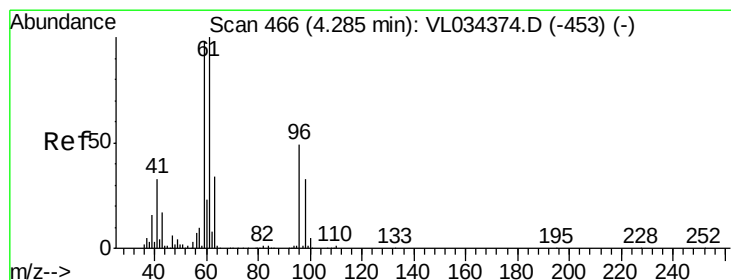
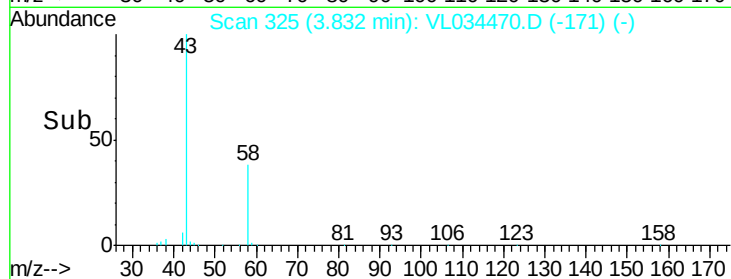
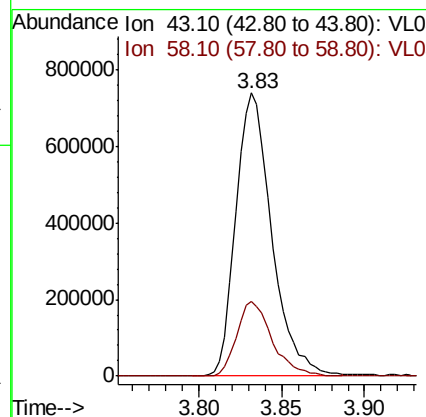
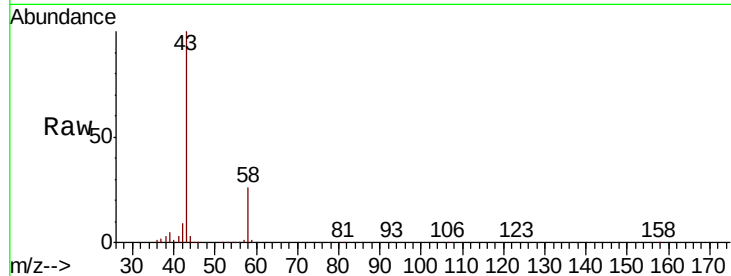
#15
Acetone
Concen: 9.076 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampled :
5S-TE

Tot Ion: 43 Resp: 1113294
Ion Ratio Lower Upper
43 100
58 26.3 20.2 30.4

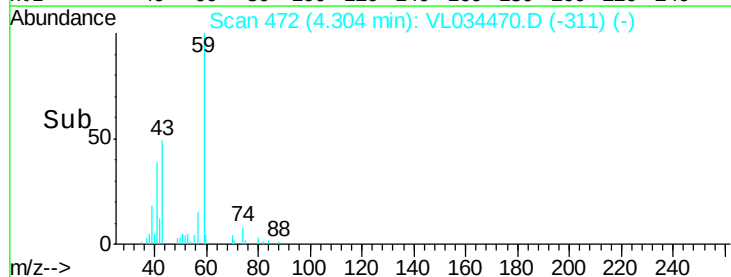
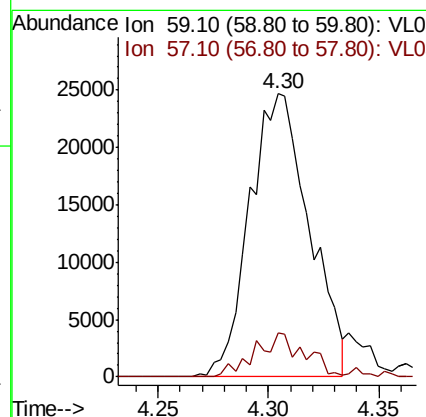
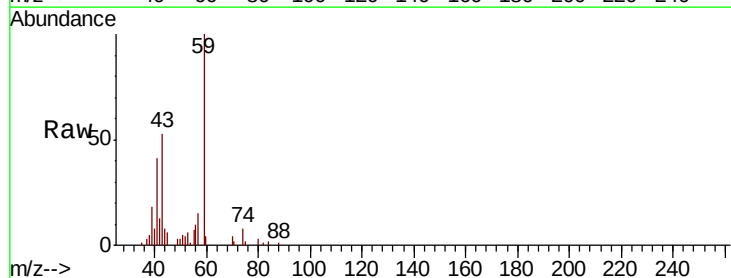
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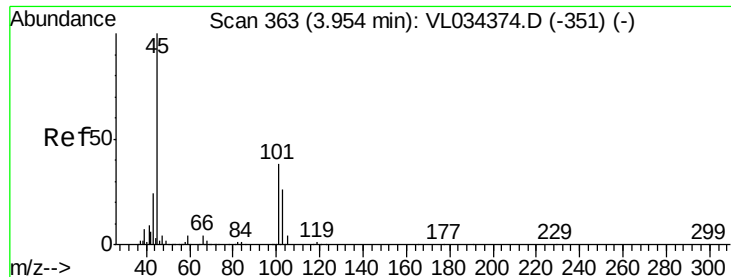
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#17
tert-Butyl alcohol
Concen: 0.449 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.02 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion: 59 Resp: 46287
Ion Ratio Lower Upper
59 100
57 13.7 8.8 13.2#





#19

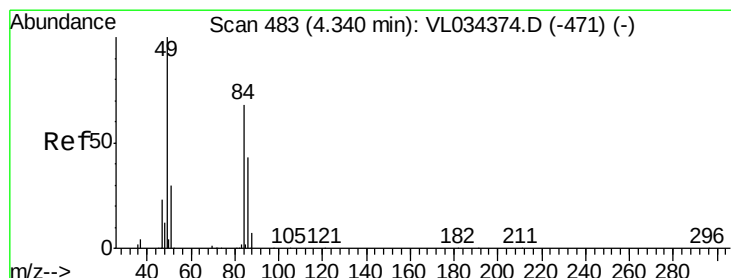
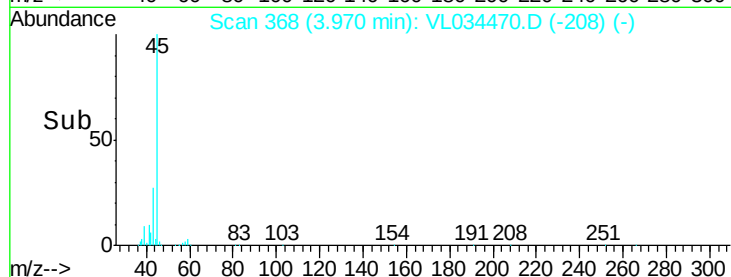
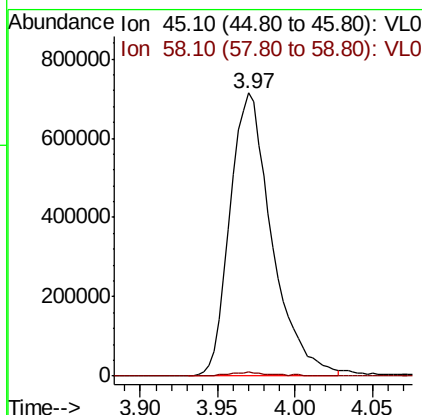
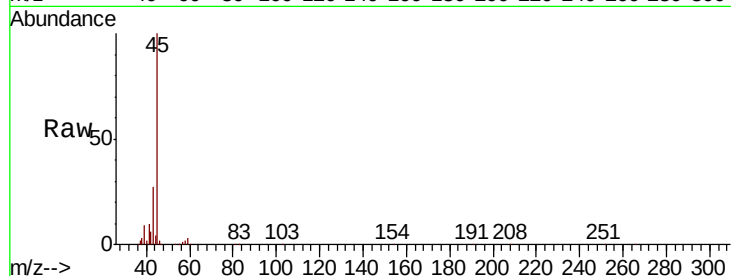
Isopropyl Alcohol
 Concen: 17.027 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VL034470.D
 Acq: 9 Dec 2019 18:47

Instrument :
 MSVOA_L
 ClientSampleId :
 5S-TE

Tot Ion: 45 Resp: 1338732
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.3 1.9

Manual Integrations
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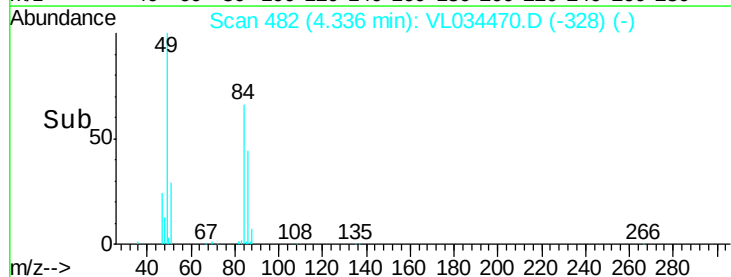
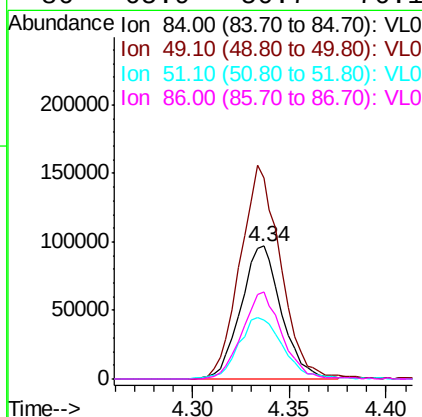
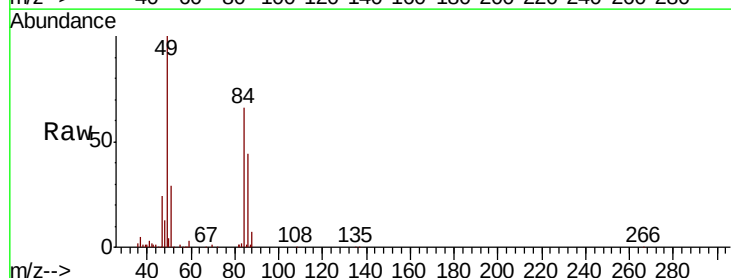
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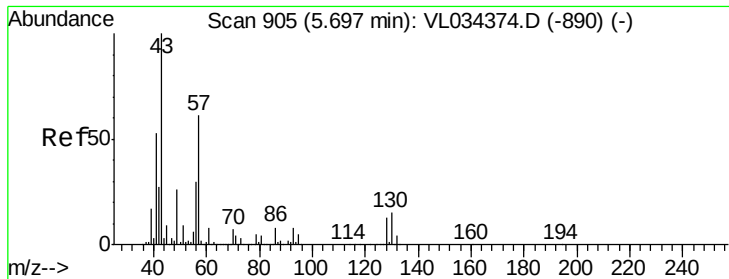


#20

Methylene Chloride
 Concen: 3.261 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: VL034470.D
 Acq: 9 Dec 2019 18:47

Tgt Ion: 84 Resp: 141836
 Ion Ratio Lower Upper
 84 100
 49 150.9 116.8 175.2
 51 44.0 35.6 53.4
 86 65.9 50.7 76.1





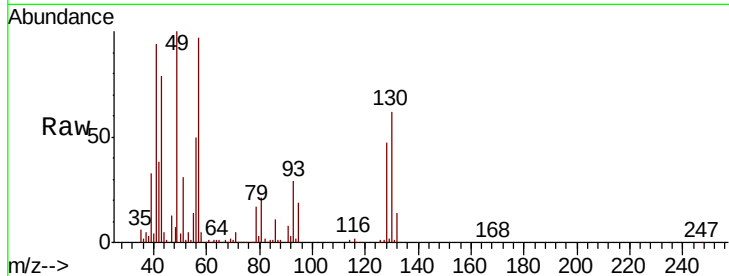
#26
Hexane
Concen: 2.363 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampled :
5S-TE

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	99.3	75.0	112.4	
43	80.4	186.6	279.8#	
56	55.2	41.5	62.3	

Manual Integrations
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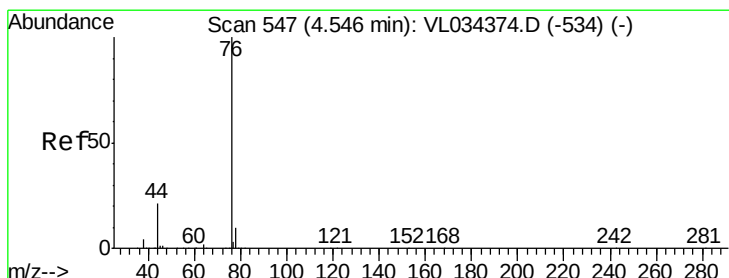
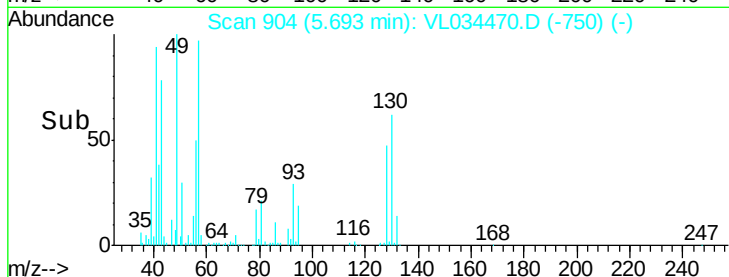
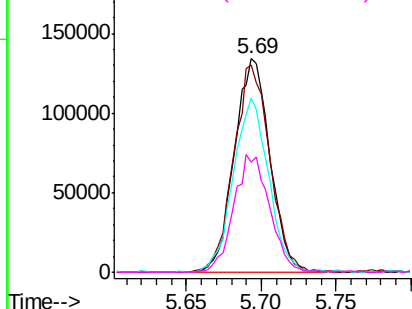
Abundance

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: 0.267 ppbv
RT: 4.55 min Scan# 548
Delta R.T. 0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

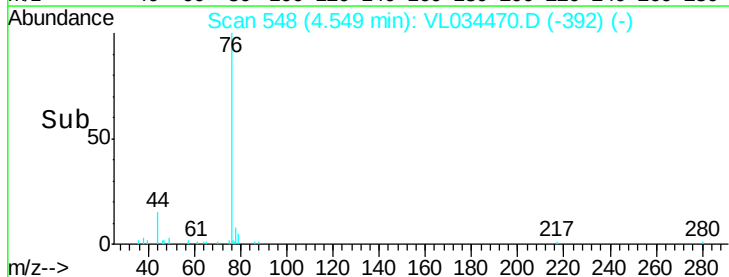
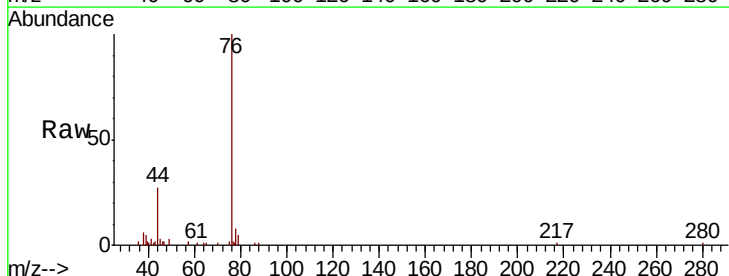
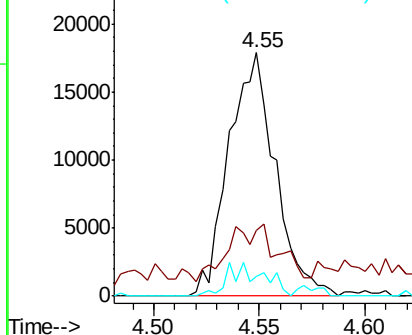
Tgt Ion	Ion	Ratio	Lower	Upper
76	100			
44	32.2	17.0	25.4#	
78	12.6	7.6	11.4#	

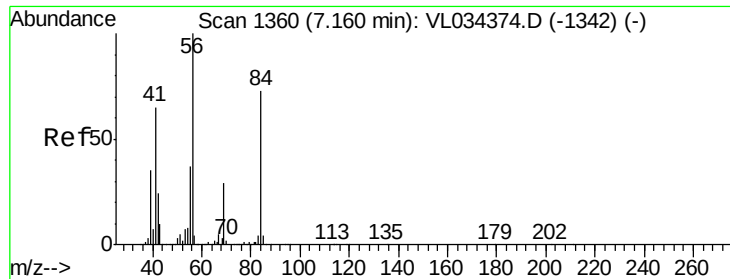
Abundance

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





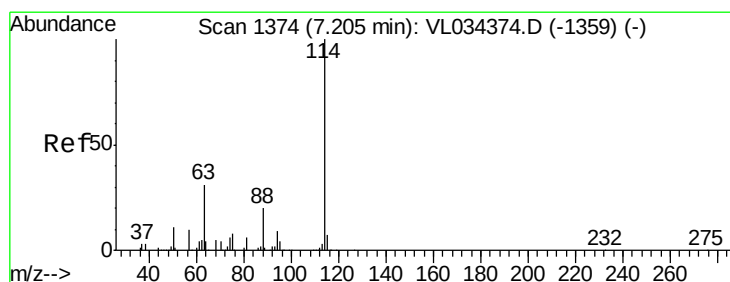
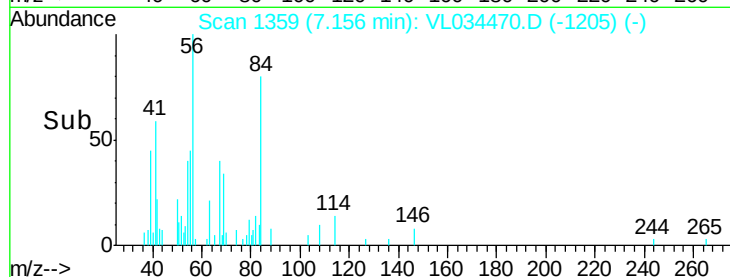
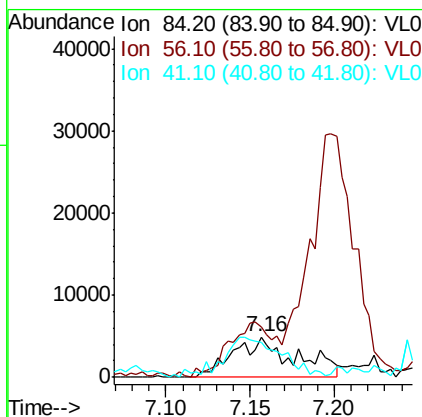
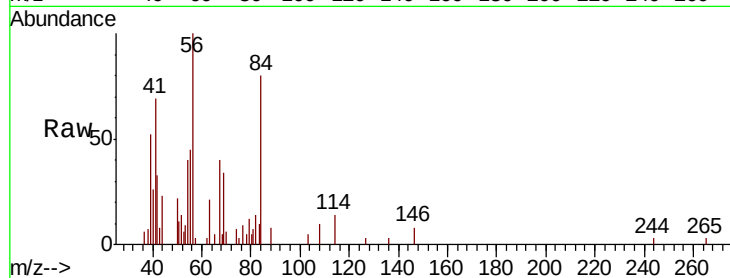
#30
Cyclohexane
Concen: 0.176 ppbv m
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampled :
5S-TE

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	112.6	169.0#
41	94.3	73.4	110.2

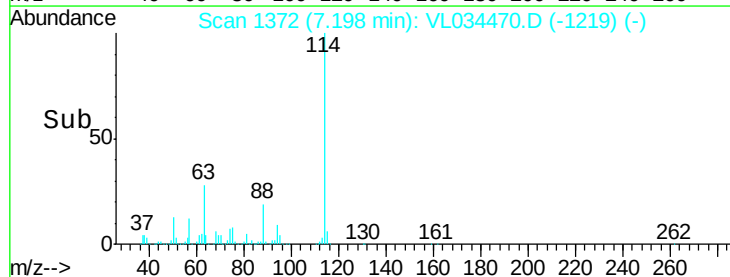
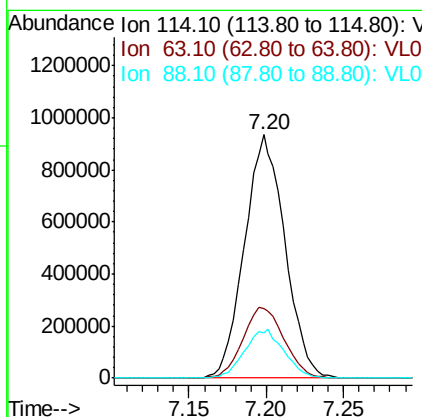
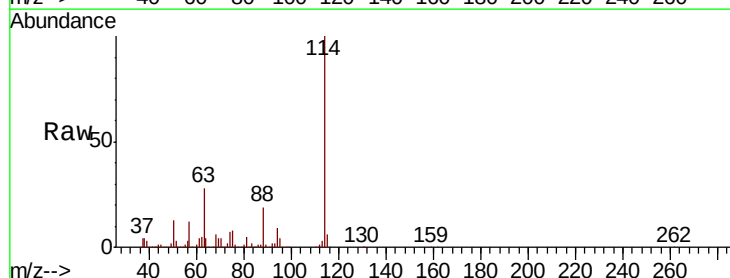
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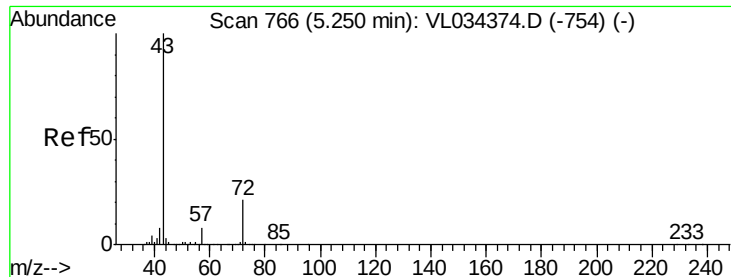
apatel
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.2	36.4
88	19.7	15.9	23.9





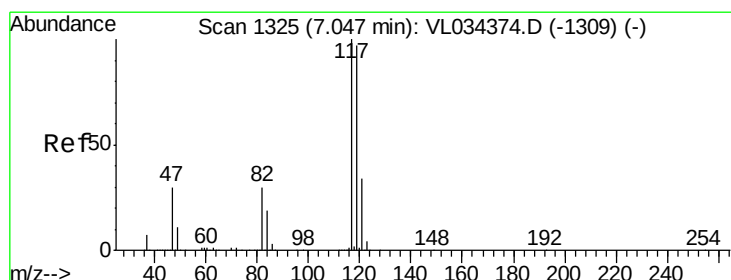
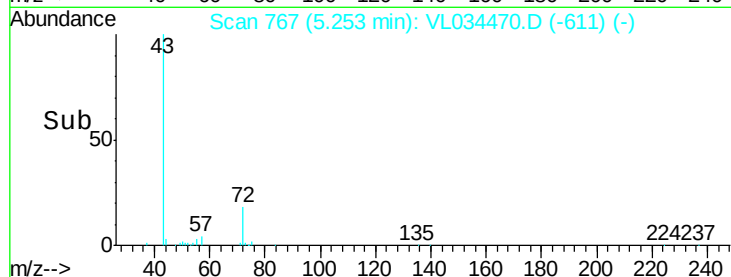
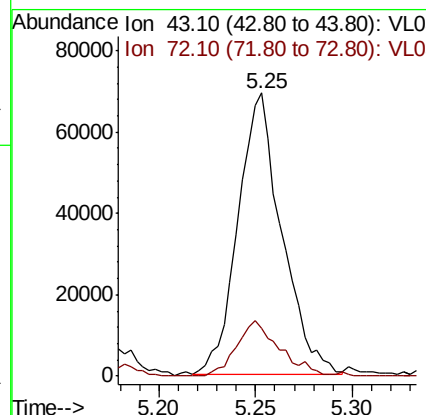
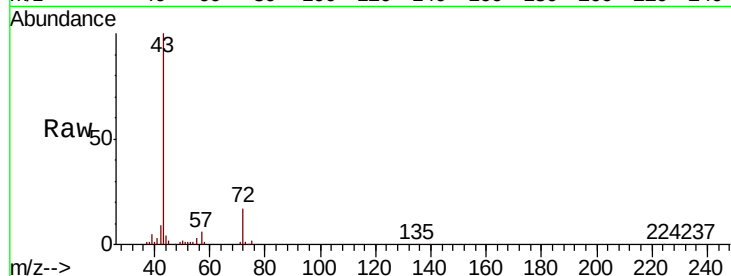
#34
2-Butanone
Concen: 0.776 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampled :
5S-TE

Tot Ion: 43 Resp: 108241
Ion Ratio Lower Upper
43 100
72 19.8 17.0 25.6

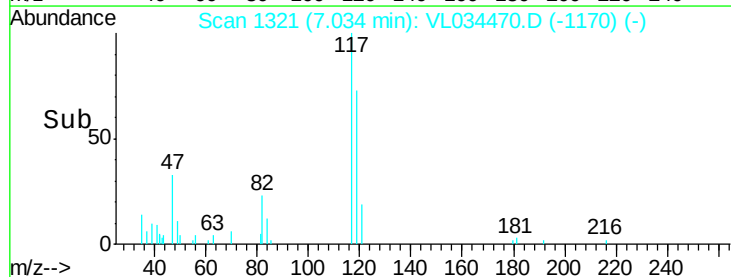
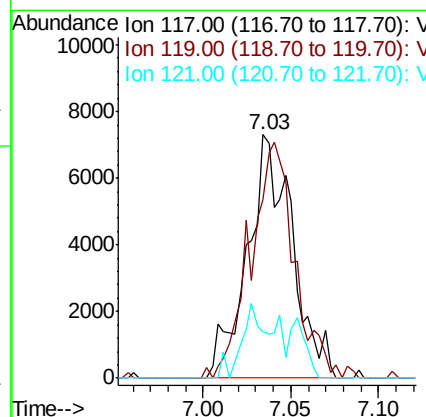
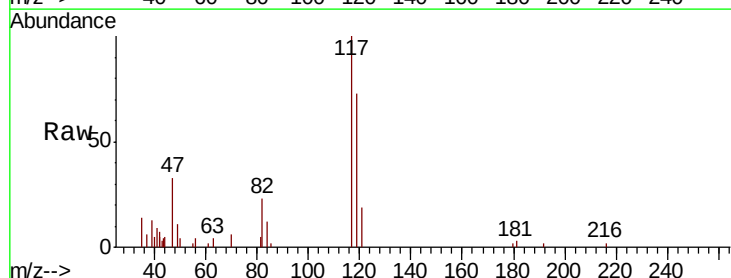
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APPROVED

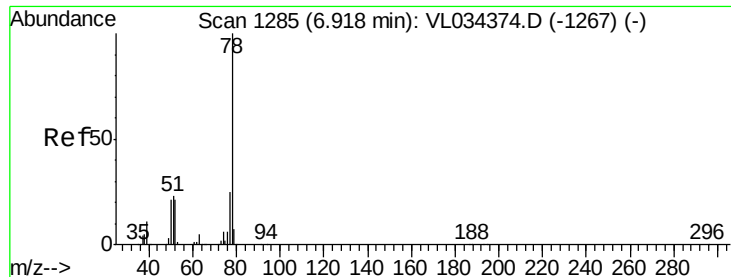
apatel
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#35
Carbon Tetrachloride
Concen: 0.089 ppbv m
RT: 7.03 min Scan# 1321
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion: 117 Resp: 12972
Ion Ratio Lower Upper
117 100
119 73.1 77.3 115.9#
121 19.4 27.4 41.2#





#36

Benzene

Concen: 0.389 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Instrument :

MSVOA_L

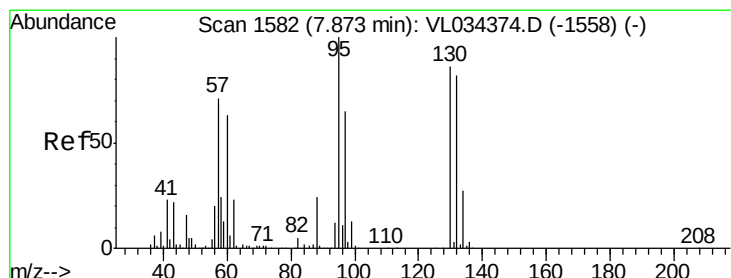
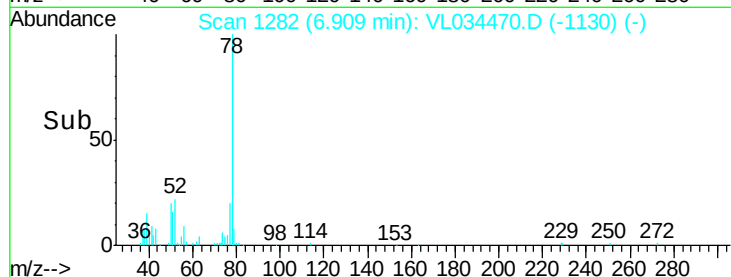
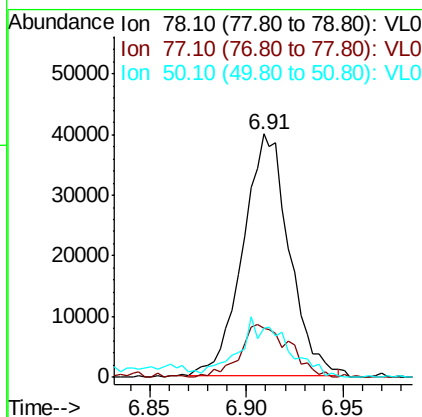
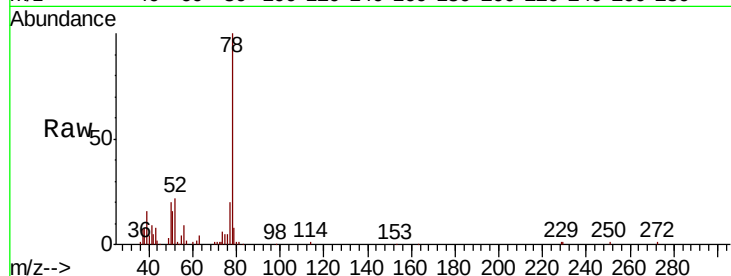
ClientSampled :

5S-TE

Tot Ion:	78	Resp:	65918
Ion	Ratio	Lower	Upper
78	100		
77	20.5	20.2	30.4
50	19.7	17.1	25.7

Manual Integrations
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#38

Trichloroethene

Concen: 0.068 ppbv m

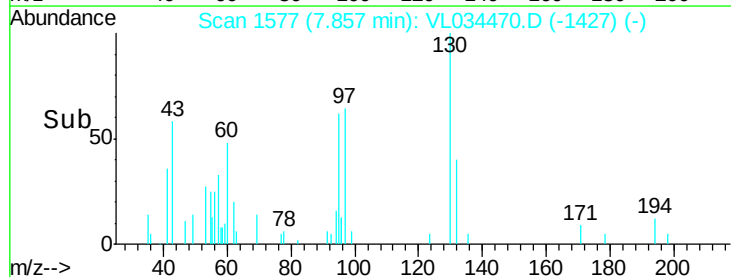
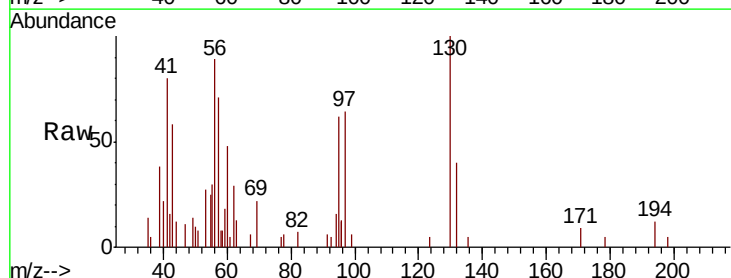
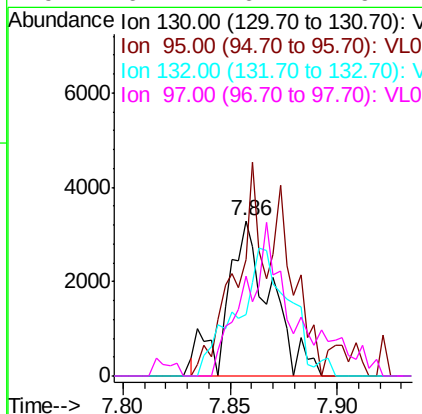
RT: 7.86 min Scan# 1577

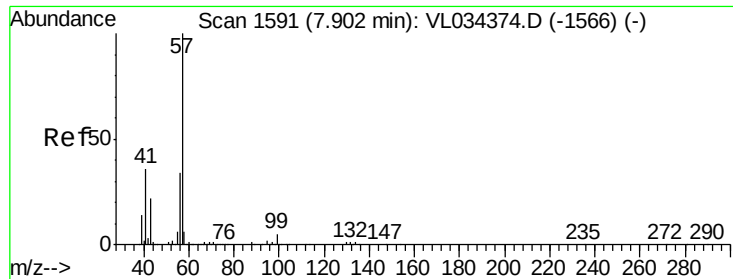
Delta R.T. -0.02 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Tgt Ion:	130	Resp:	4691
Ion	Ratio	Lower	Upper
130	100		
95	62.4	93.4	140.0#
132	39.8	76.4	114.6#
97	64.4	61.1	91.7





#44

2,2,4-Trimethylpentane

Concen: 0.464 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. -0.01 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Instrument :

MSVOA_L

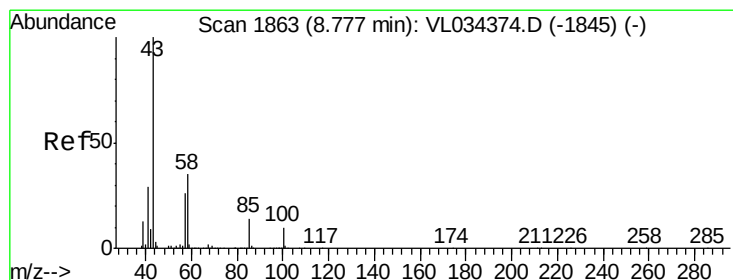
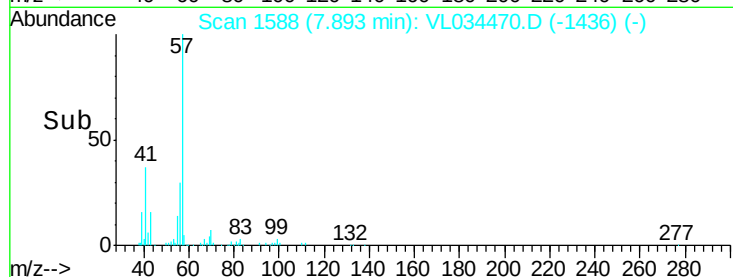
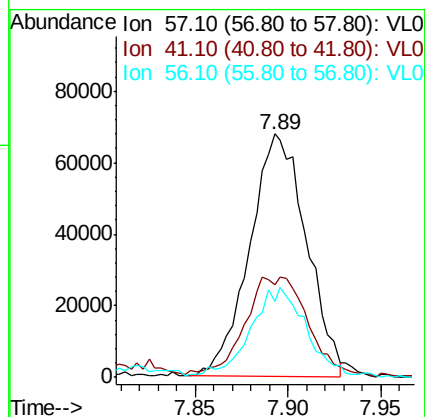
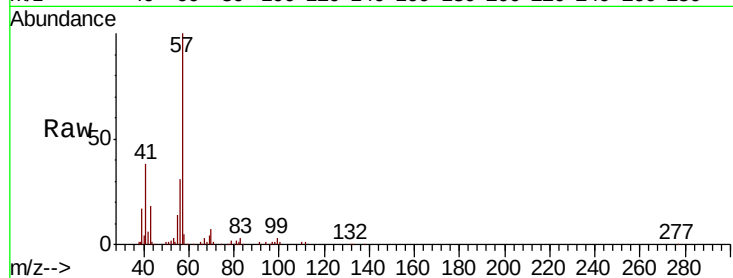
ClientSampleId :

5S-TE

Tot Ion:	57	Resp:	143699
Ion Ratio		Lower	Upper
57	100		
41	47.6	28.6	42.8#
56	36.9	25.3	37.9

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.609 ppbv

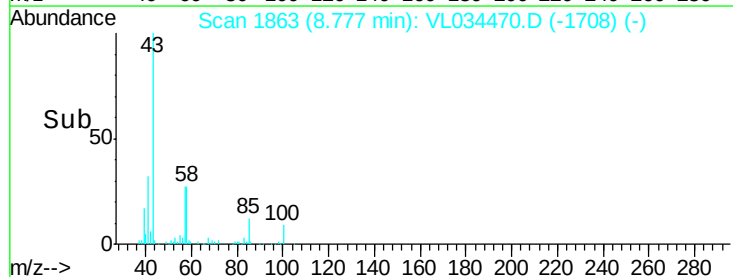
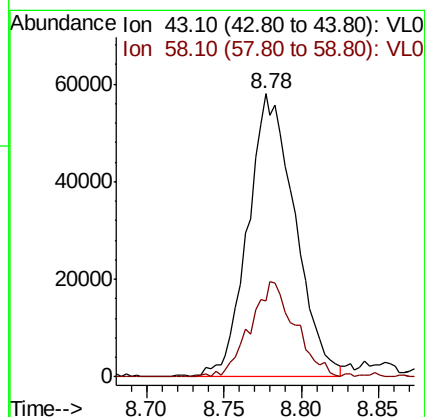
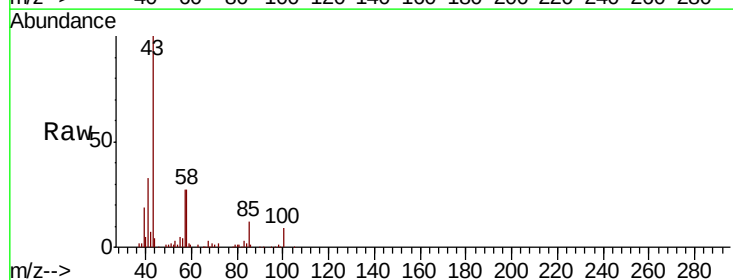
RT: 8.78 min Scan# 1863

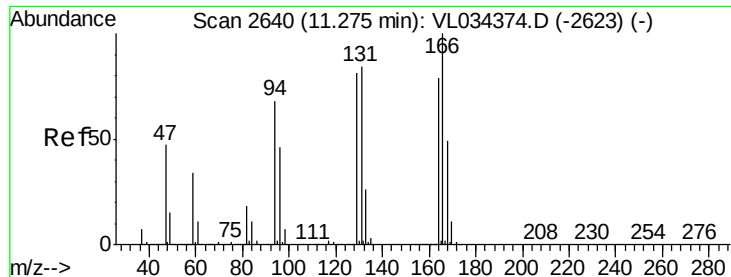
Delta R.T. -0.00 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Tgt Ion:	43	Resp:	122744
Ion Ratio		Lower	Upper
43	100		
58	32.7	27.9	41.9





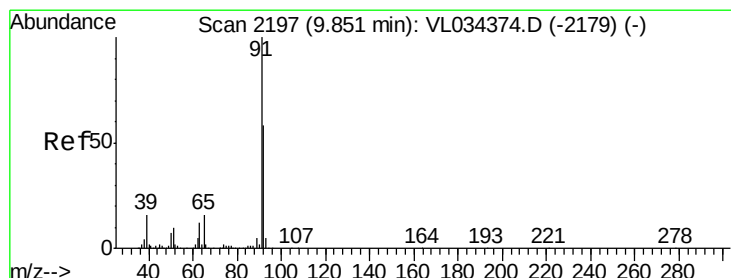
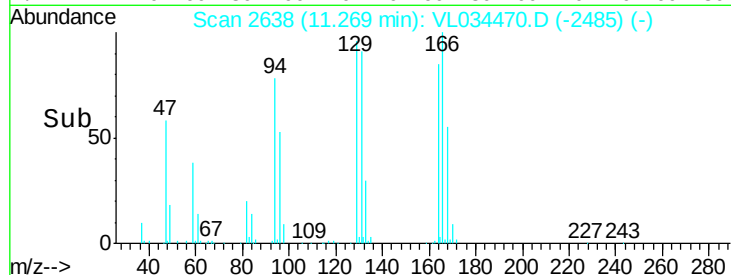
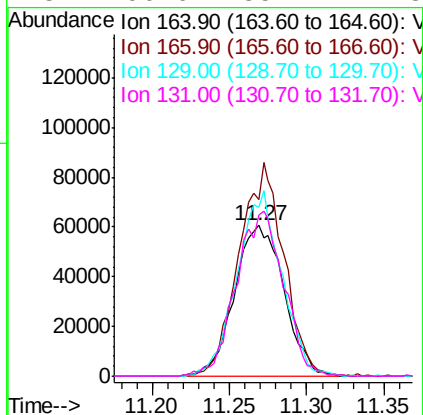
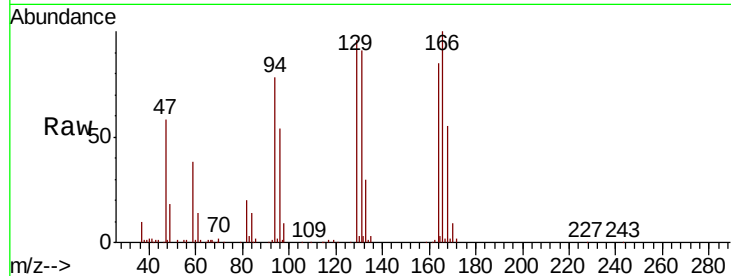
#52
Tetrachloroethene
Concen: 1.840 ppbv
RT: 11.27 min Scan# 2638
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampled :
5S-TE

Tot Ion	Ratio	Lower	Upper
164	100		
166	116.2	101.7	152.5
129	111.7	82.6	123.8
131	106.6	85.2	127.8

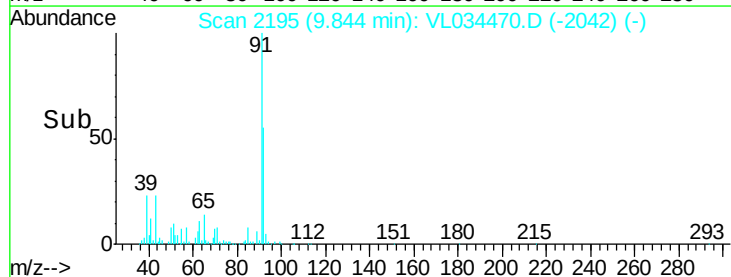
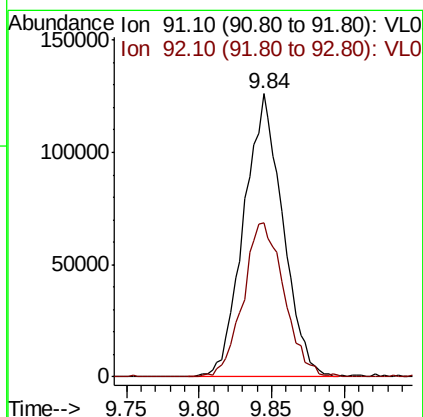
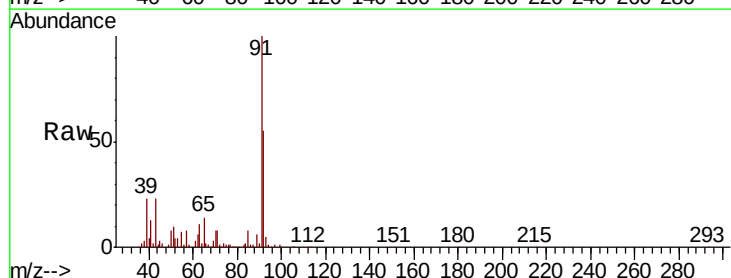
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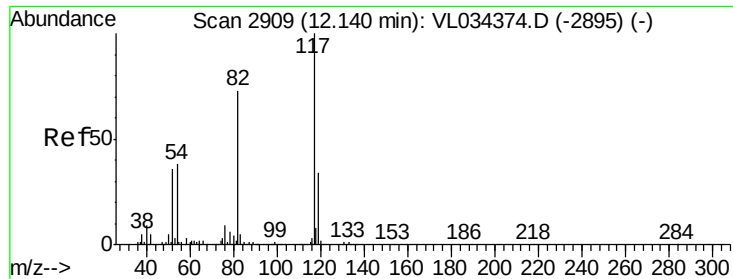
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#53
Toluene
Concen: 1.229 ppbv
RT: 9.84 min Scan# 2195
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.2	47.9	71.9





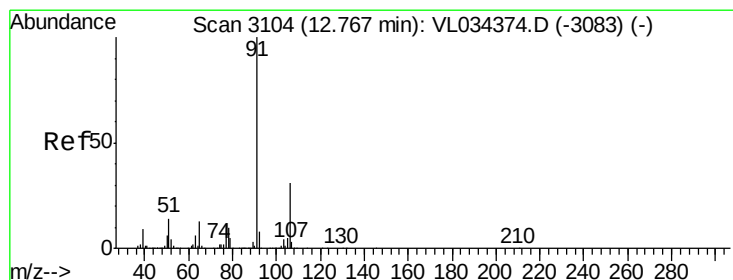
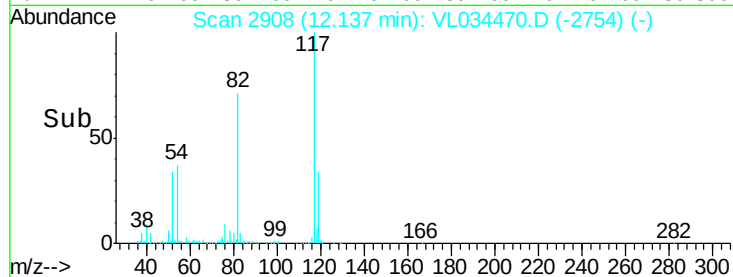
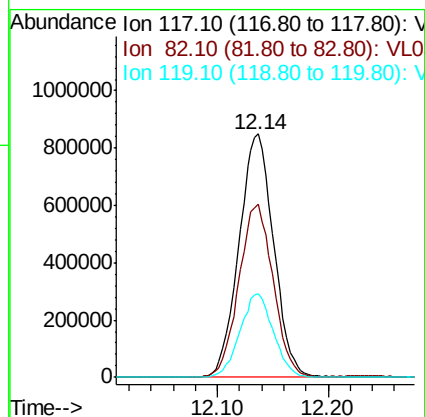
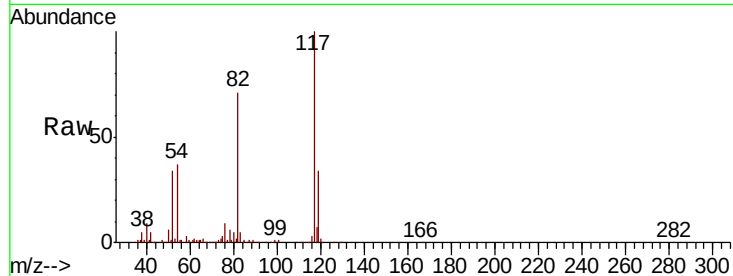
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampleId :
5S-TE

Tot Ion:117 Resp: 1846135
Ion Ratio Lower Upper
117 100
82 70.8 57.5 86.3
119 33.2 25.4 38.2

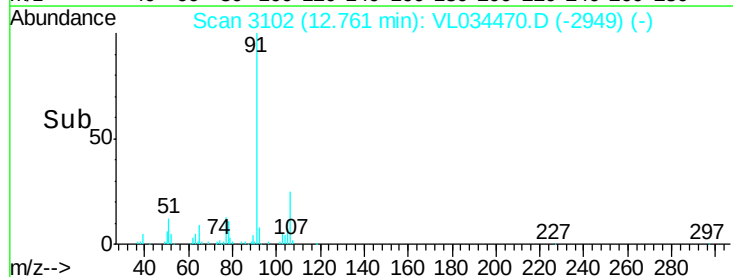
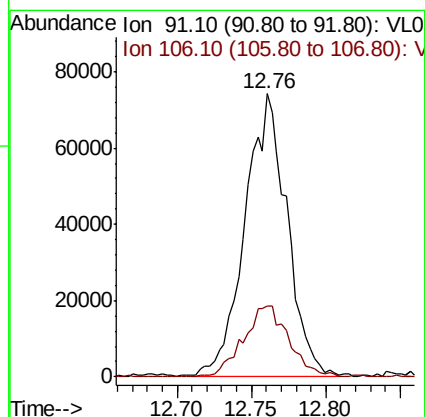
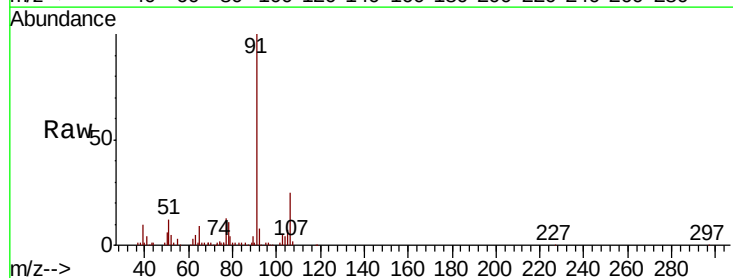
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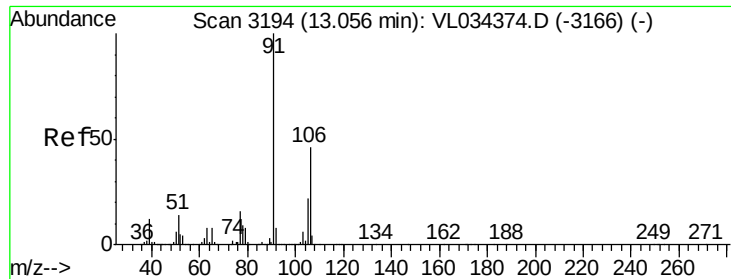
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#58
Ethyl Benzene
Concen: 0.510 ppbv m
RT: 12.76 min Scan# 3102
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion: 91 Resp: 146032
Ion Ratio Lower Upper
91 100
106 25.1 24.8 37.2





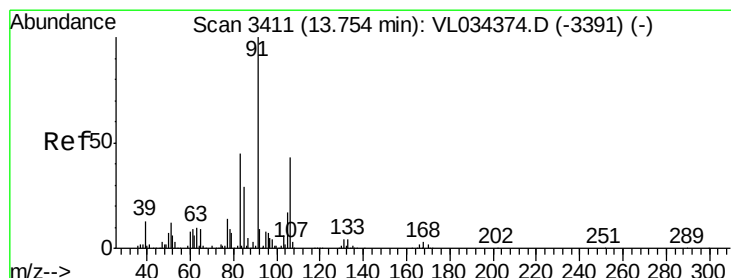
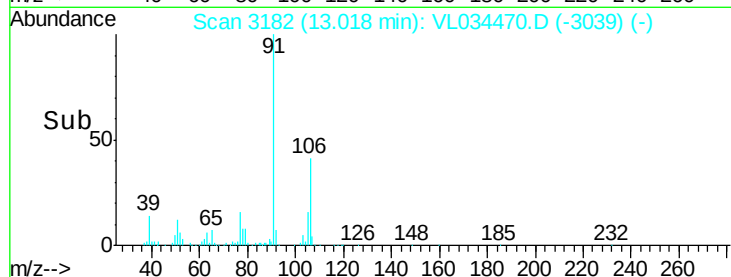
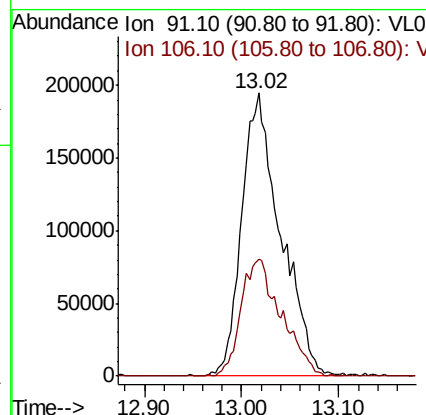
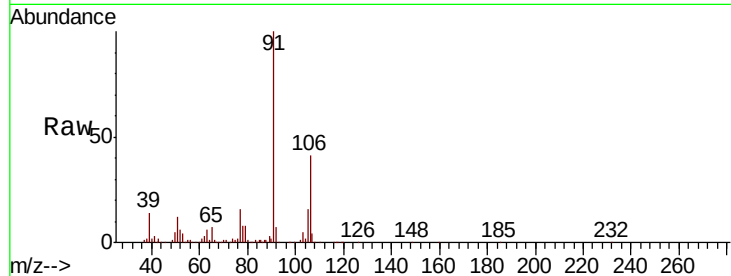
#59
m/p-Xylene
Concen: 2.188 ppbv m
RT: 13.02 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampled :
5S-TE

Tot Ion: 91 Resp: 541796
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

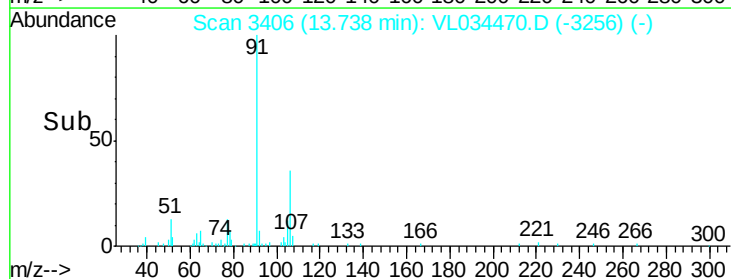
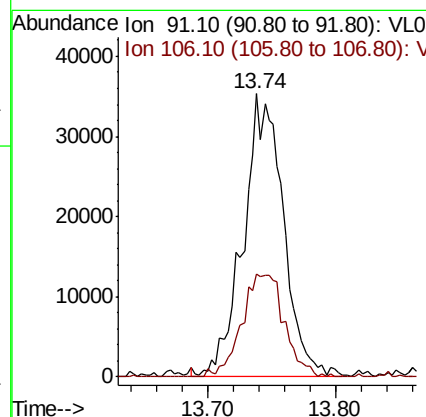
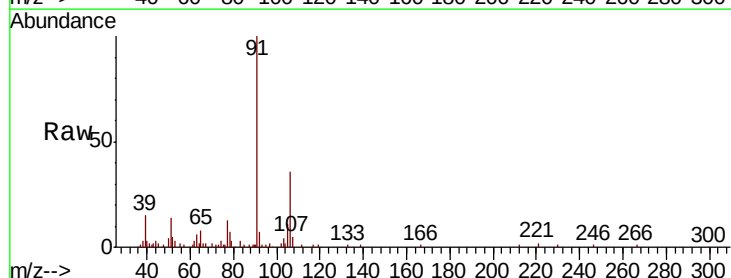
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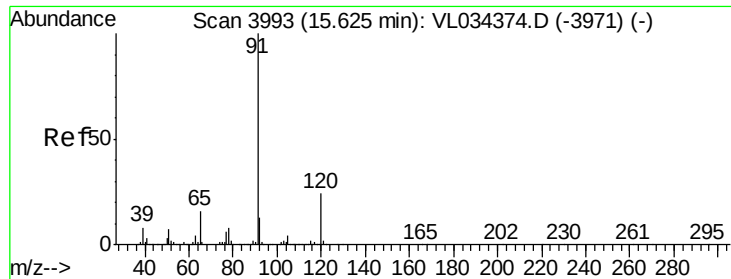
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#60
o-Xylene
Concen: 0.316 ppbv m
RT: 13.74 min Scan# 3406
Delta R.T. -0.02 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion: 91 Resp: 77455
Ion Ratio Lower Upper
91 100
106 0.0 21.3 64.0#





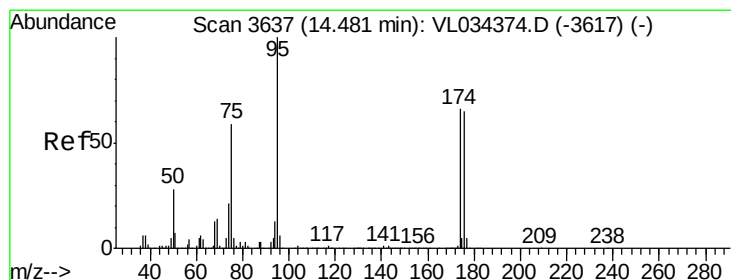
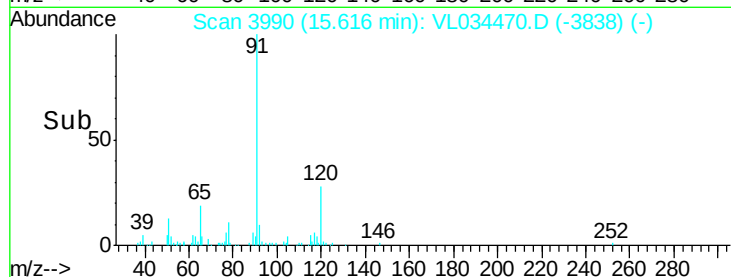
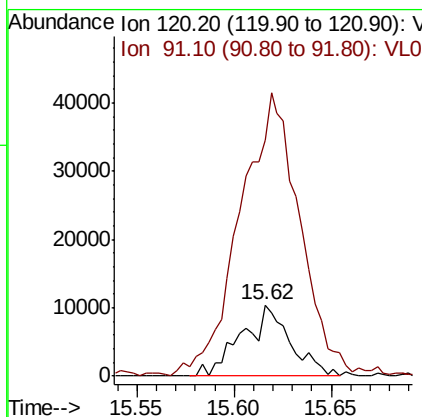
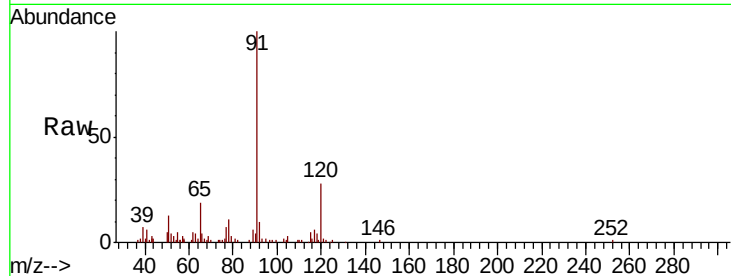
#64
n-propylbenzene
Concen: 0.215 ppbv m
RT: 15.62 min Scan# 3990
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Instrument :
MSVOA_L
ClientSampleId :
5S-TE

Tot Ion:120 Resp: 18071
Ion Ratio Lower Upper
120 100
91 490.3 370.9 556.3

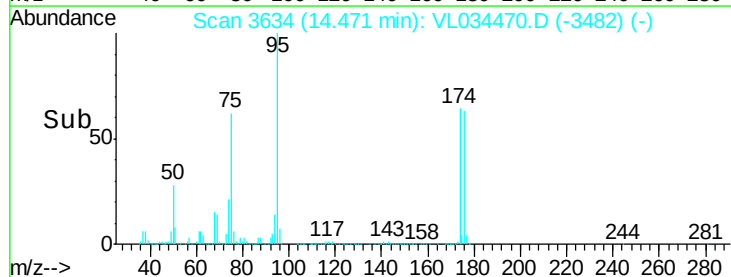
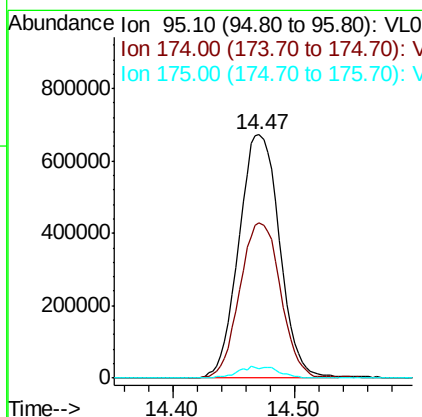
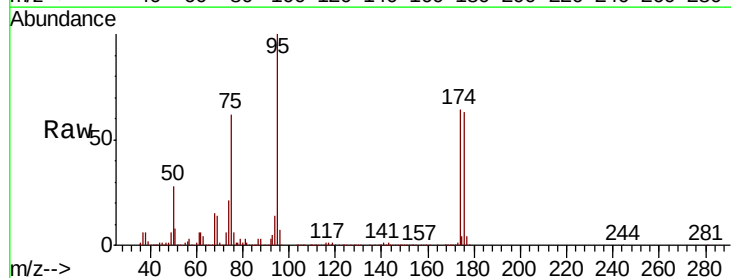
Manual Integrations
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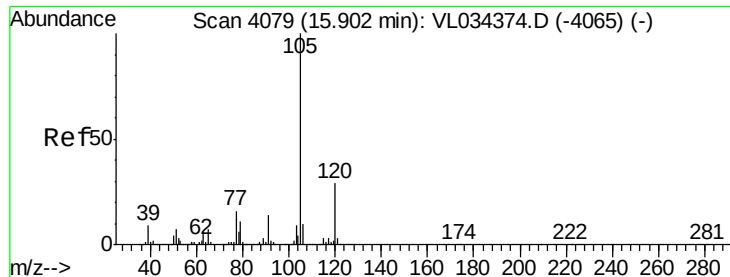
apatel
12/11/2019 2:12:15 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.972 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034470.D
Acq: 9 Dec 2019 18:47

Tgt Ion: 95 Resp: 1548800
Ion Ratio Lower Upper
95 100
174 64.5 52.2 78.2
175 4.6 3.8 5.8





#72

4-Ethyltoluene

Concen: 0.445 ppbv

RT: 15.90 min Scan# 4077

Delta R.T. -0.01 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Instrument :

MSVOA_L

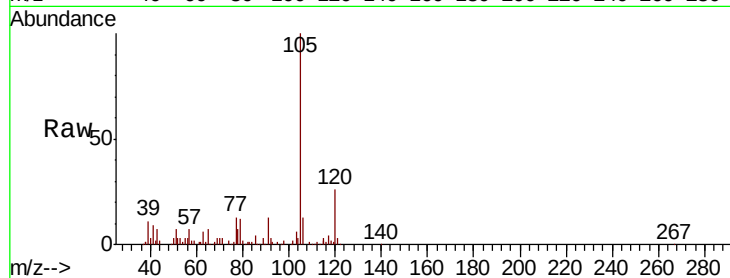
ClientSampleId :

5S-TE

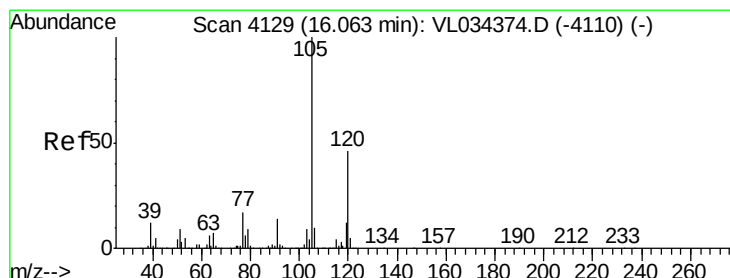
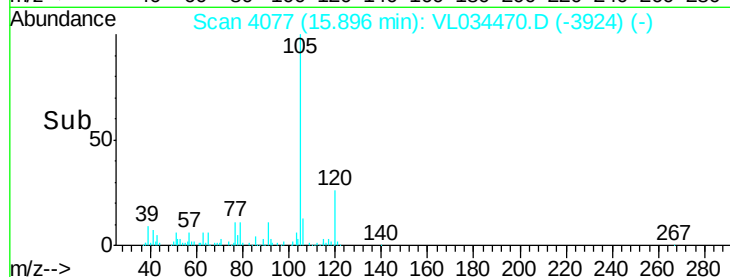
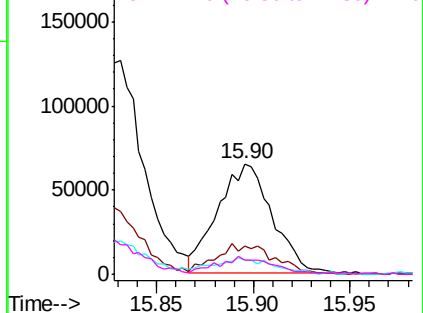
Tot Ion:	105	Resp:	125843
Ion Ratio	Lower	Upper	
105	100		
120	30.7	23.5	35.3
91	17.0	11.4	17.0
77	16.7	12.6	19.0

Manual Integrations
APPROVED

apatel
12/11/2019 2:12:15 PM



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



#73

1,3,5-Trimethylbenzene

Concen: 0.635 ppbv

RT: 16.05 min Scan# 4126

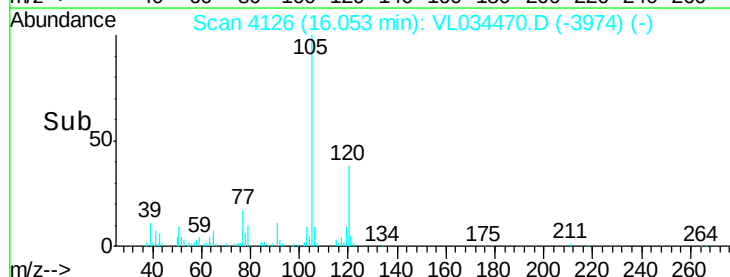
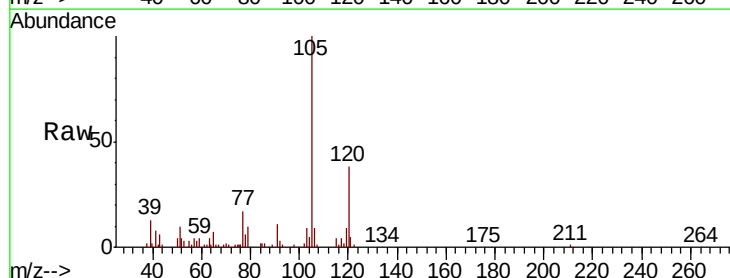
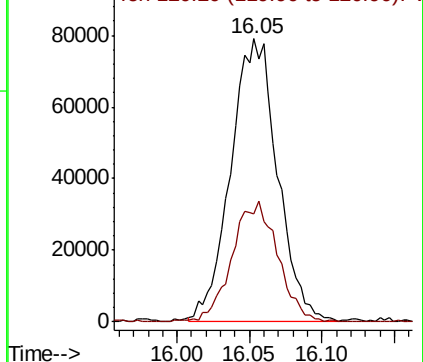
Delta R.T. -0.01 min

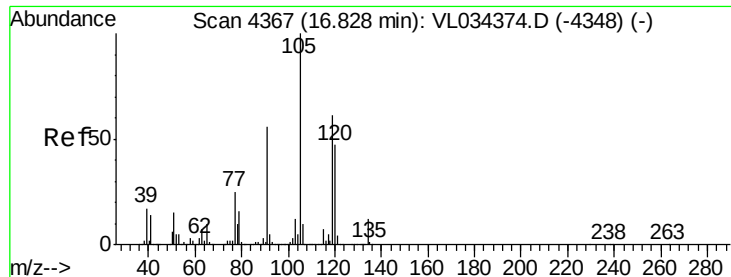
Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Tgt Ion:	105	Resp:	175858
Ion Ratio	Lower	Upper	
105	100		
120	37.8	37.1	55.7

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





#74

1,2,4-Trimethylbenzene

Concen: 1.748 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. -0.01 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Instrument :

MSVOA_L

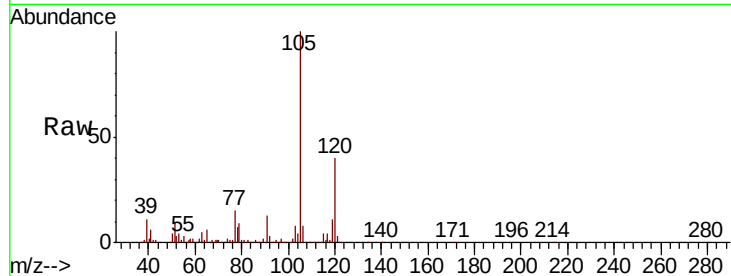
ClientSampled :

5S-TE

Tot Ion	Ratio	Resp	Lower	Upper
105	100	514296		
120	39.9	37.4	56.0	
91	12.9	46.3	69.5	
77	15.3	20.6	30.8	

Manual Integrations
APPROVED

apatel
12/11/2019 2:12:15 PM

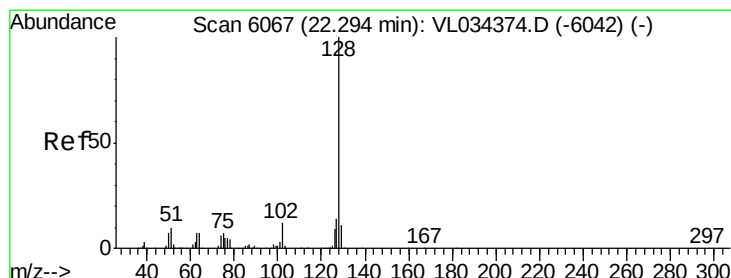
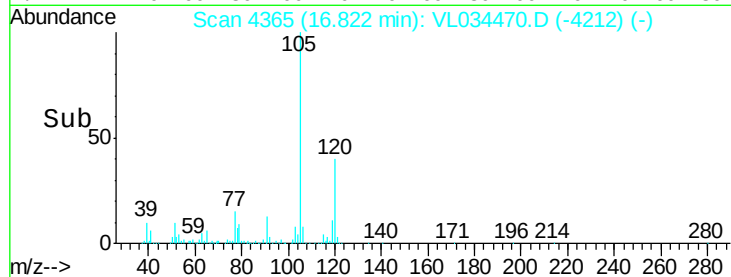
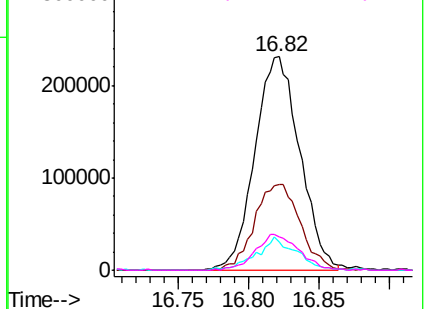


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.166 ppbv m

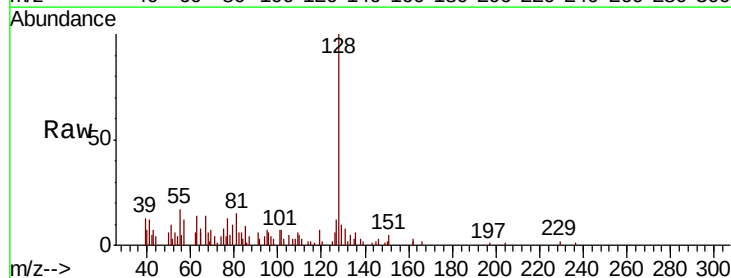
RT: 22.29 min Scan# 6065

Delta R.T. -0.01 min

Lab File: VL034470.D

Acq: 9 Dec 2019 18:47

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	42320		
127	11.8	11.0	16.6	
129	9.6	8.9	13.3	



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

