

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034415.D
 Acq On : 25 Nov 2019 20:59
 Operator : SY/AP
 Sample : K5971-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 5

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Quant Time: Nov 29 12:12:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue 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	927331	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1808918	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1766746	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1534420	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	117571	0.701	ppbv	96
3) Chlorodifluoromethane	2.96	51	38895m	0.336	ppbv	
4) Chloromethane	3.12	50	33042	0.484	ppbv #	87
9) Propene	2.99	41	38328m	0.746	ppbv	
10) Heptane	8.15	43	17900m	0.135	ppbv	
11) Trichlorofluoromethane	3.94	101	35425	0.212	ppbv	94
13) Ethanol	3.59	45	1880762	131.439	ppbv	97
15) Acetone	3.83	43	1009540	7.603	ppbv	100
19) Isopropyl Alcohol	3.96	45	3575492m	42.008	ppbv	
20) Methylene Chloride	4.34	84	98310	2.088	ppbv	98
26) Hexane	5.69	57	167586m	1.646	ppbv	
30) Cyclohexane	7.14	84	15445m	0.201	ppbv	
34) 2-Butanone	5.25	43	45135	0.303	ppbv	100
35) Carbon Tetrachloride	7.05	117	10699m	0.069	ppbv	
36) Benzene	6.91	78	38072	0.211	ppbv #	94
52) Tetrachloroethene	11.27	164	2680m	0.034	ppbv	
53) Toluene	9.84	91	116702	0.568	ppbv	98
59) m/p-Xylene	13.02	91	39946m	0.169	ppbv	
76) 1,4-Dichlorobenzene	17.21	146	32009m	0.204	ppbv	

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

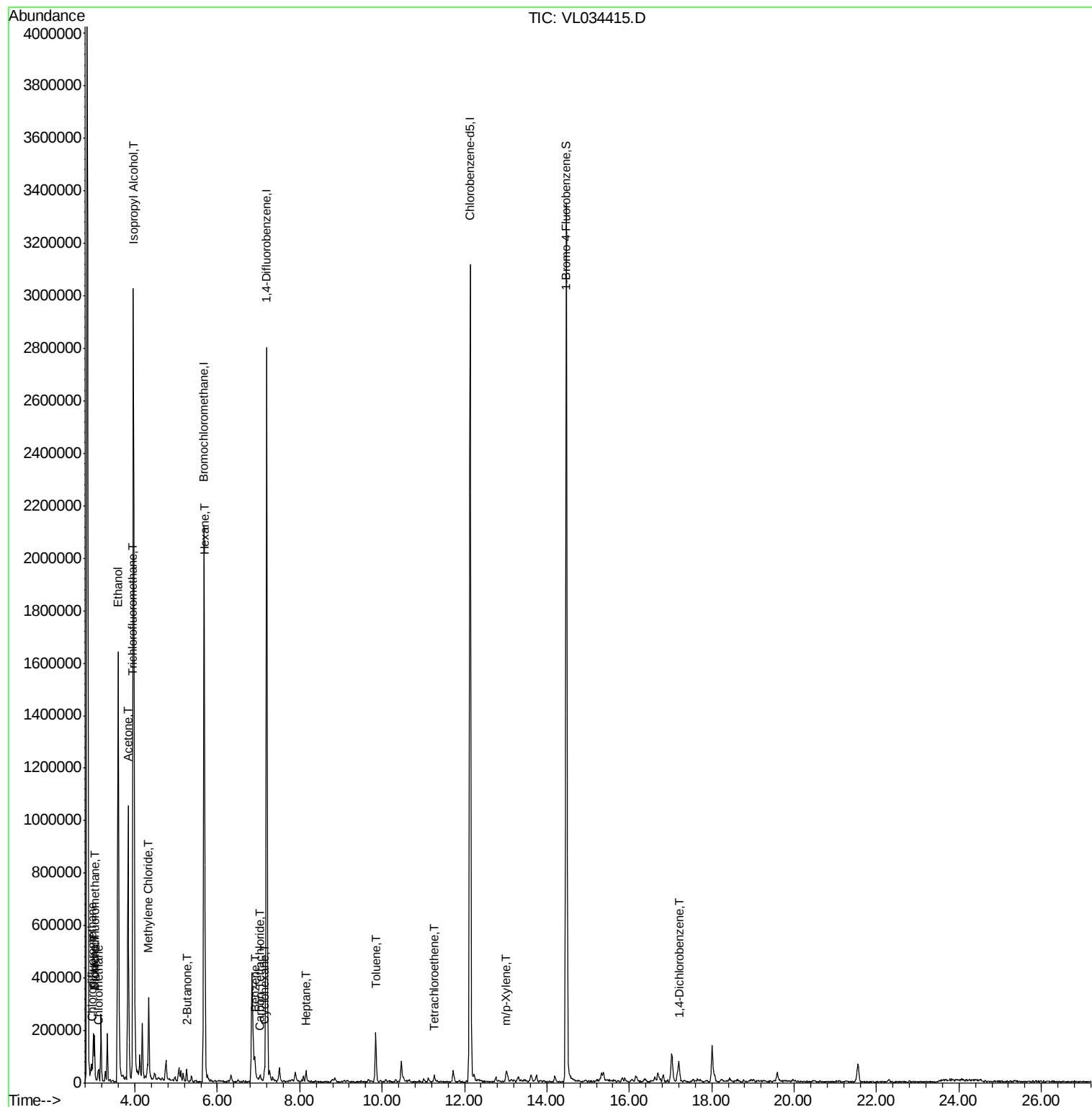
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112519\
Data File : VL034415.D
Acq On : 25 Nov 2019 20:59
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Misc : 400ml/MSVOA L
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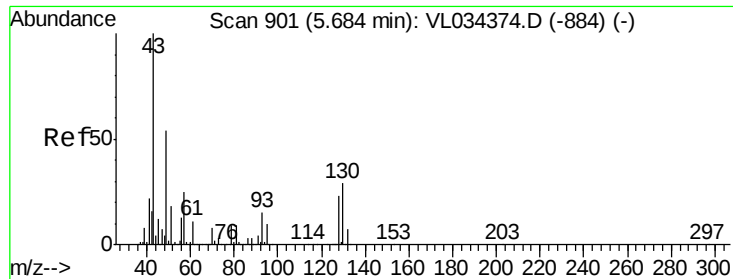
Instrument :
MSVOA_L
ClientSampleId :
5

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Quant Time: Nov 29 12:12:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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: VL034415.D

Acq: 25 Nov 2019 20:59

Instrument :

MSVOA_L

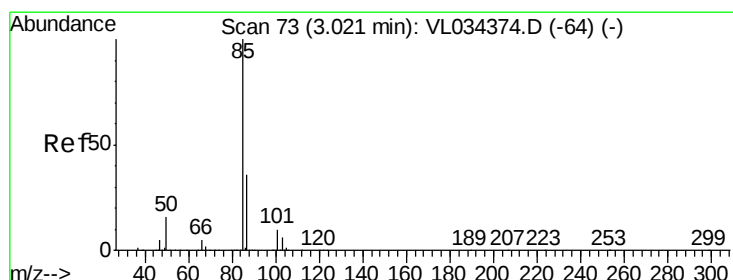
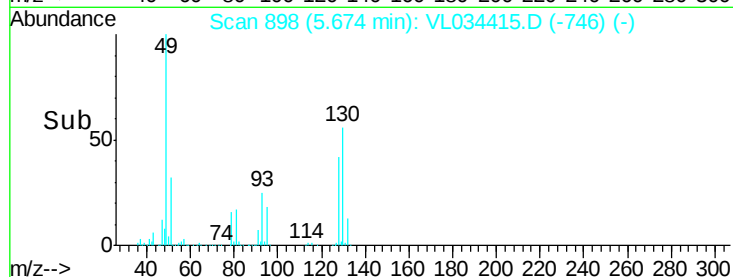
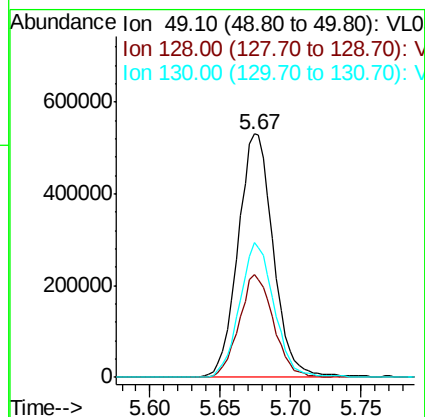
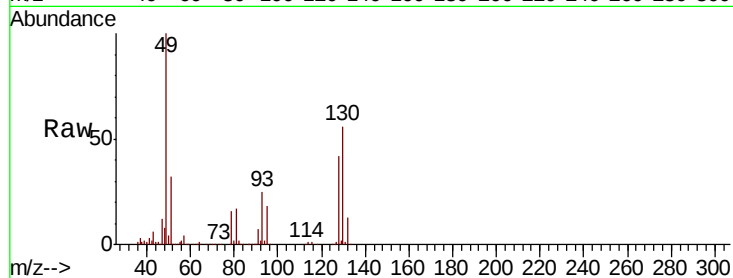
ClientSampled :

5

Tot Ion:	49	Resp:	927331
Ion	Ratio	Lower	Upper
49	100		
128	41.8	21.8	65.3
130	54.6	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.701 ppbv

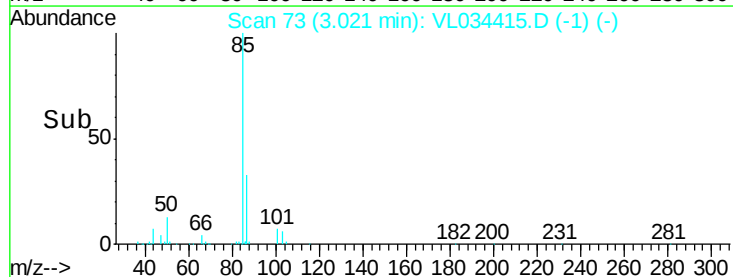
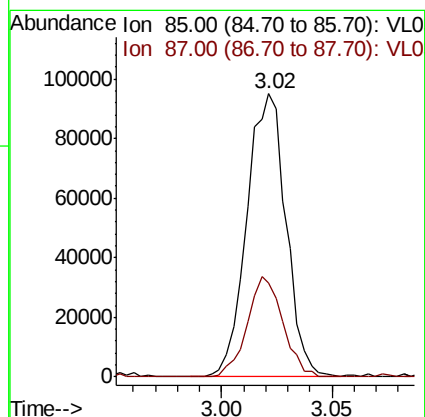
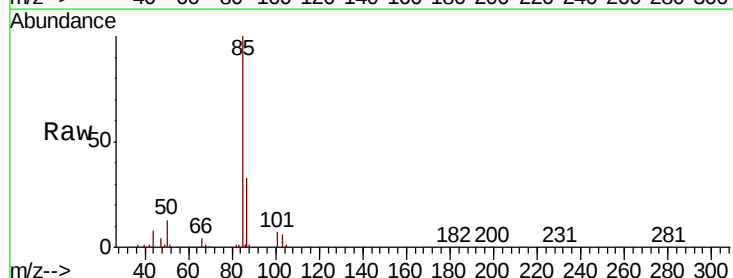
RT: 3.02 min Scan# 73

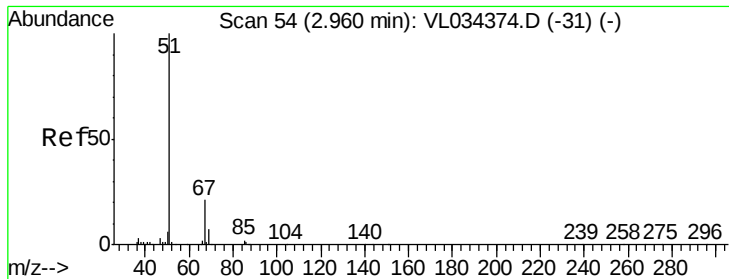
Delta R.T. -0.00 min

Lab File: VL034415.D

Acq: 25 Nov 2019 20:59

Tgt Ion:	85	Resp:	117571
Ion	Ratio	Lower	Upper
85	100		
87	33.3	28.5	42.7





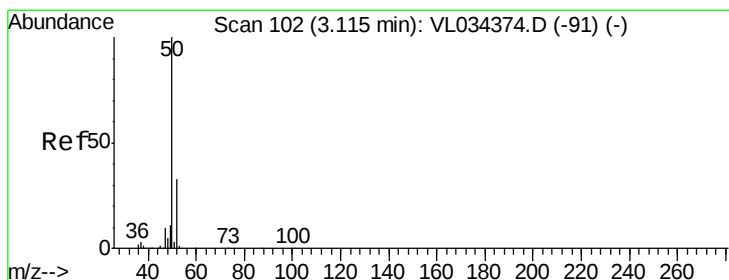
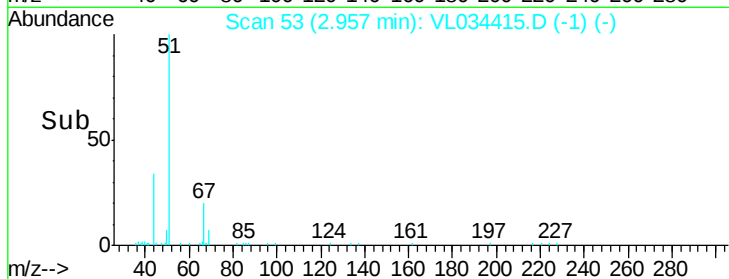
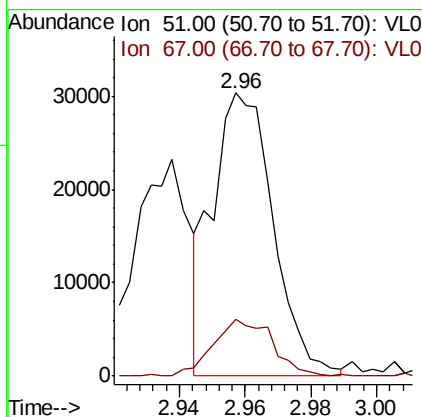
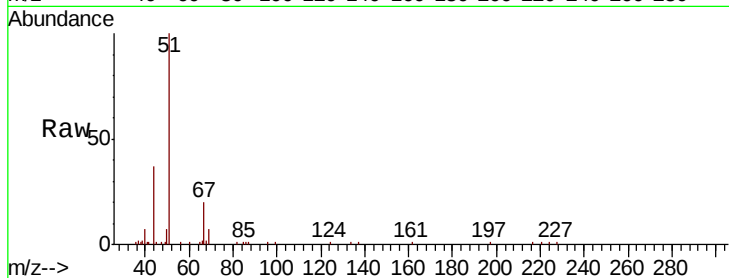
#3
Chlorodifluoromethane
Concen: 0.336 ppbv m
RT: 2.96 min Scan# 53
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Instrument :
MSVOA_L
ClientSampleId :
5

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.6	16.2	24.2

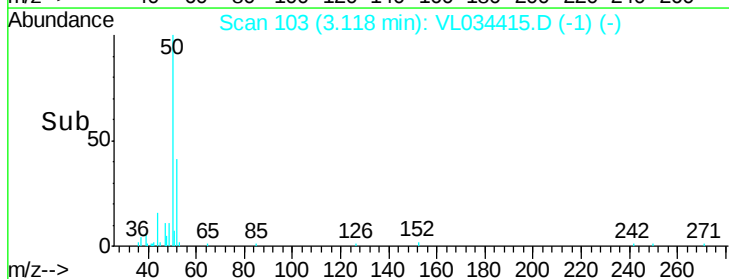
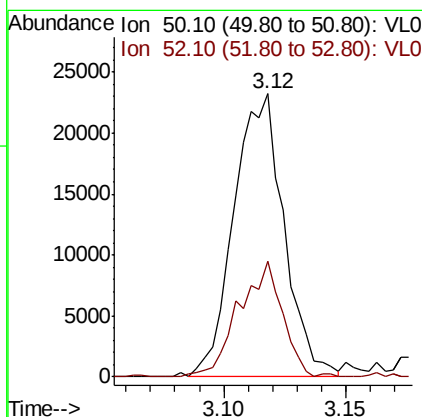
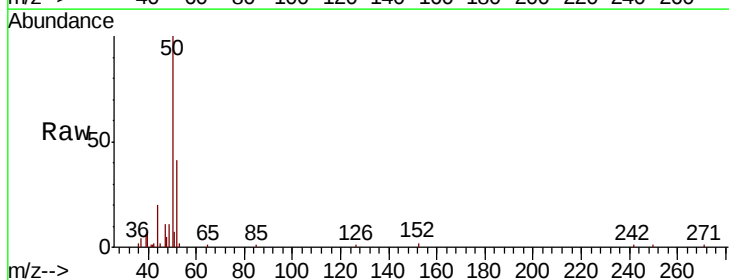
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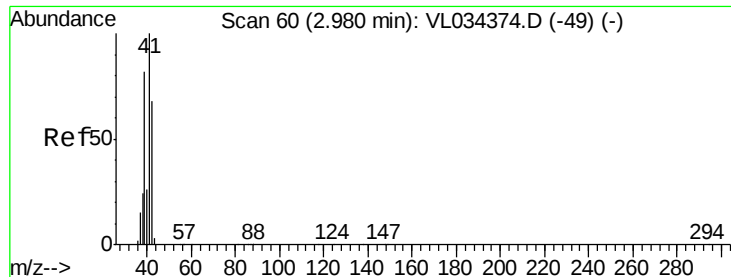
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#4
Chloromethane
Concen: 0.484 ppbv
RT: 3.12 min Scan# 103
Delta R.T. 0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion	Ratio	Lower	Upper
50	100		
52	40.7	26.8	40.2





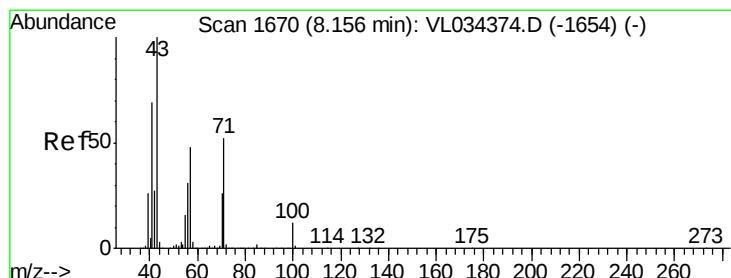
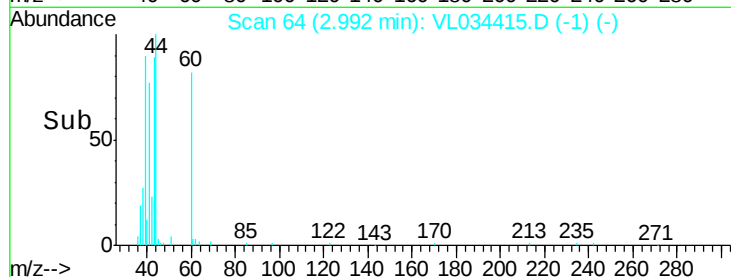
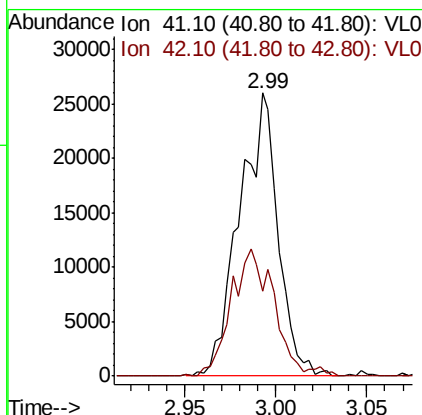
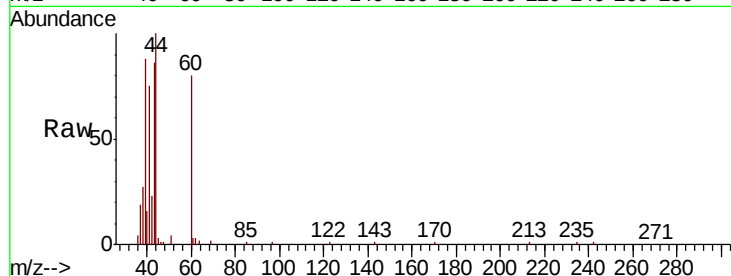
#9
 Propene
 Concen: 0.746 ppbv m
 RT: 2.99 min Scan# 64
 Delta R.T. 0.01 min
 Lab File: VL034415.D
 Acq: 25 Nov 2019 20:59

Instrument :
 MSVOA_L
 ClientSampled :
 5

Tot Ion	41	Resp	38328
Ion Ratio	Lower	Upper	
41	100		
42	105.6	54.6	82.0#

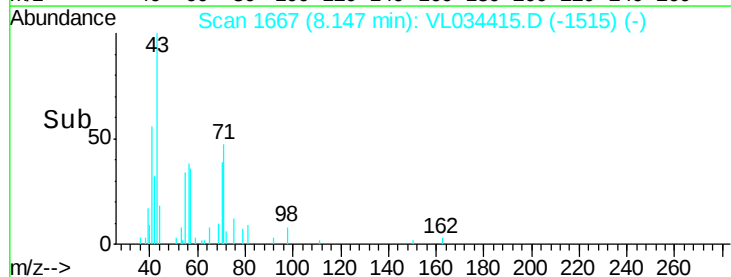
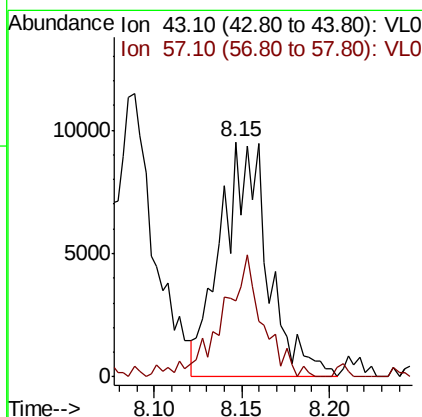
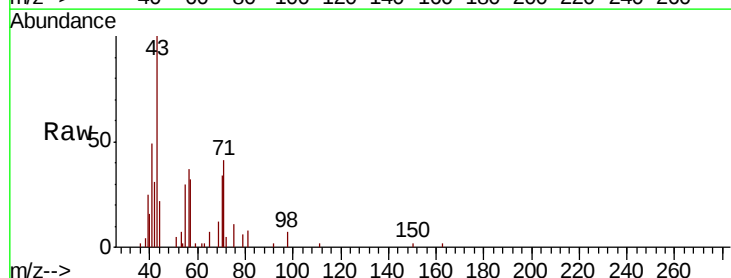
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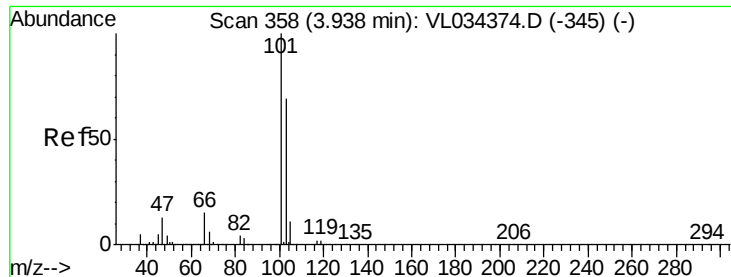
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#10
 Heptane
 Concen: 0.135 ppbv m
 RT: 8.15 min Scan# 1667
 Delta R.T. -0.01 min
 Lab File: VL034415.D
 Acq: 25 Nov 2019 20:59

Tgt Ion	43	Resp	17900
Ion Ratio	Lower	Upper	
43	100		
57	0.0	40.2	60.2#





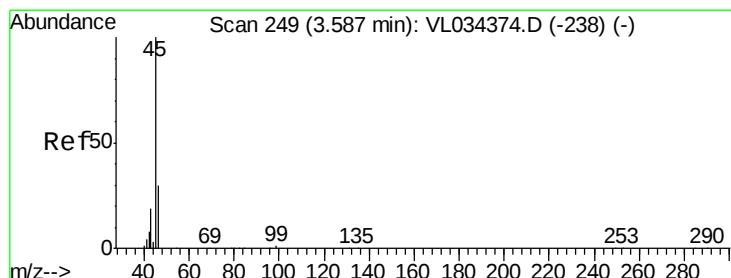
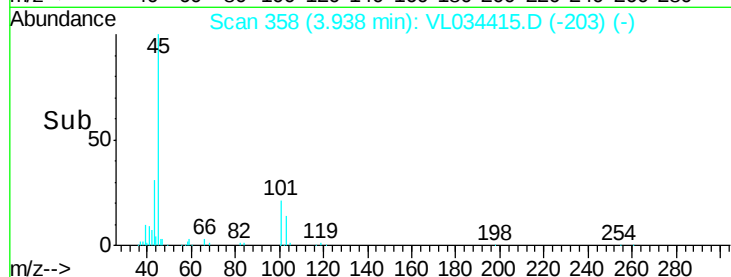
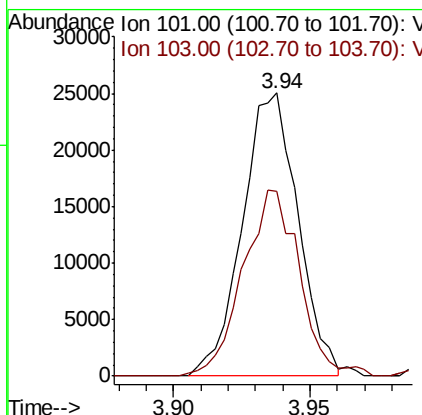
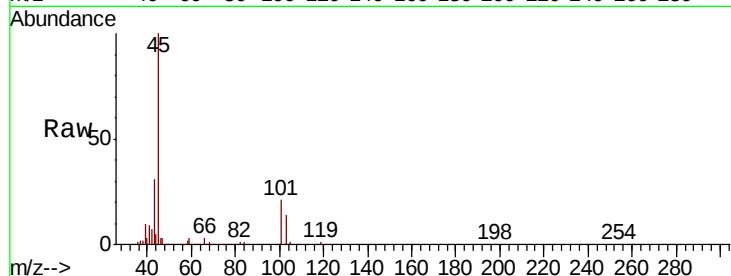
#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Instrument :
MSVOA_L
ClientSampled :
5

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	64.3	55.4	83.0	

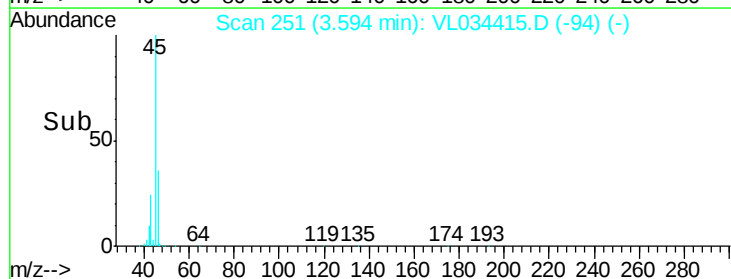
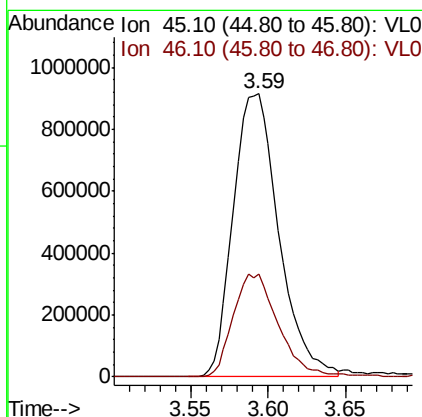
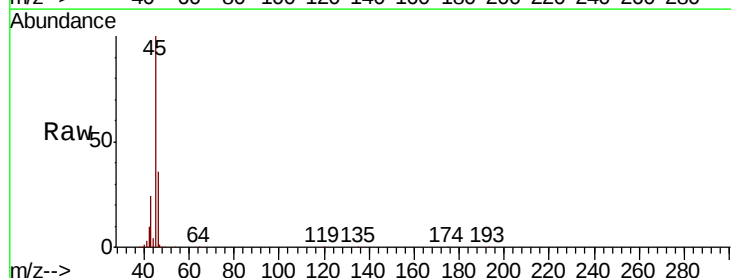
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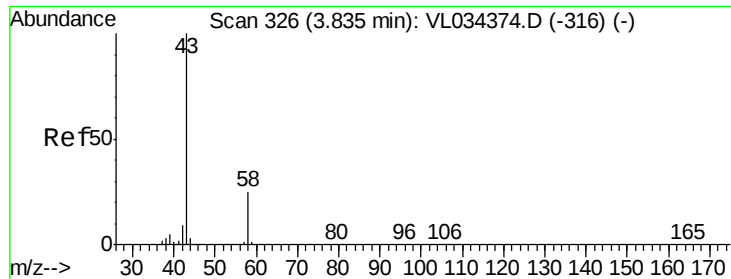
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#13
Ethanol
Concen: 131.439 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	36.4	13.8	55.4	





#15

Acetone

Concen: 7.603 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL034415.D

Acq: 25 Nov 2019 20:59

Instrument :

MSVOA_L

ClientSampleId :

5

Tot Ion: 43 Resp: 1009540

Ion Ratio Lower Upper

43 100

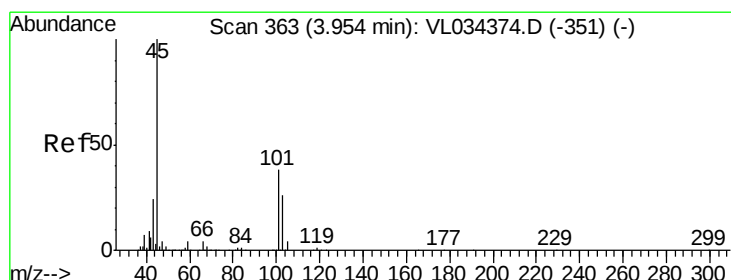
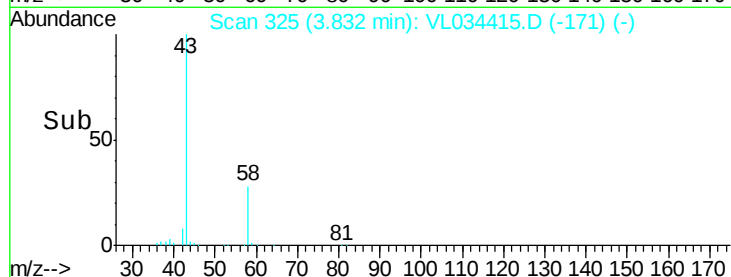
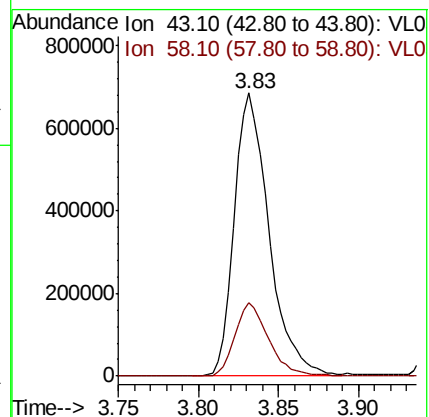
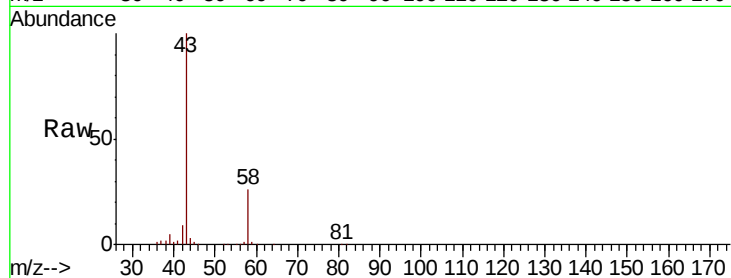
58 25.3 20.2 30.4

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#19

Isopropyl Alcohol

Concen: 42.008 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL034415.D

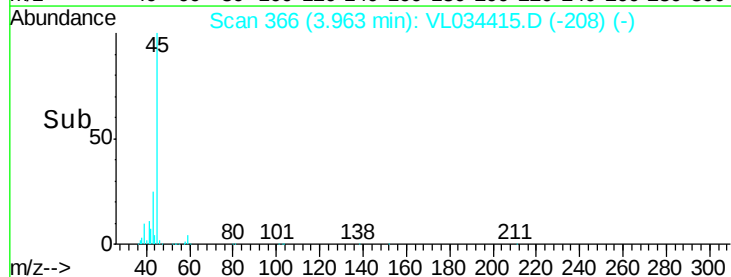
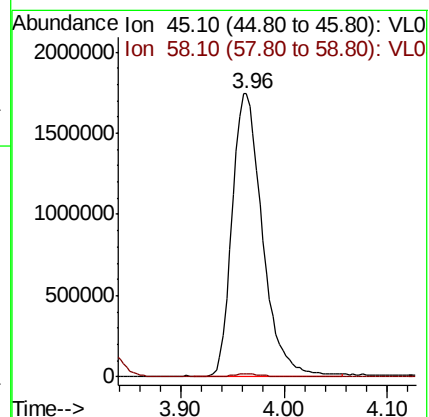
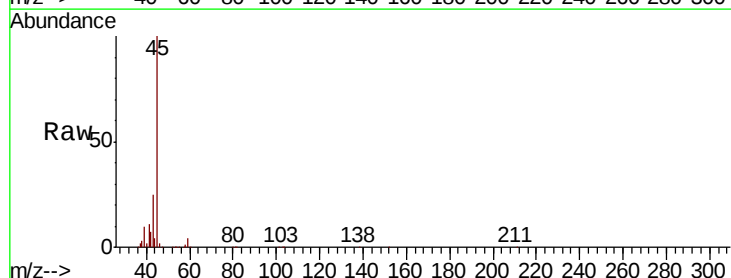
Acq: 25 Nov 2019 20:59

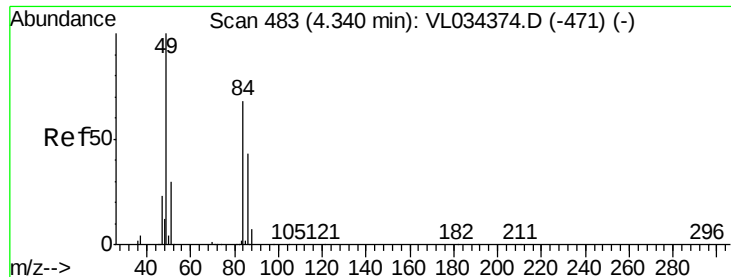
Tgt Ion: 45 Resp: 3575492

Ion Ratio Lower Upper

45 100

58 0.0 1.3 1.9#





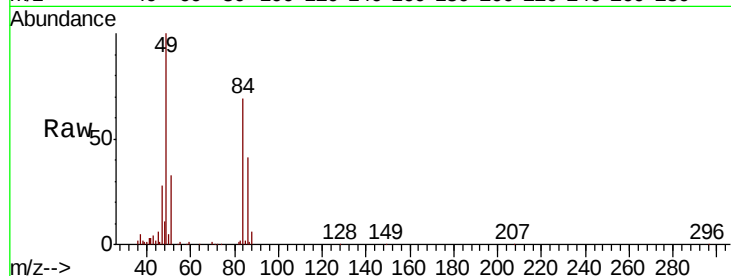
#20
Methvlene Chloride
Concen: 2.088 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Instrument :
MSVOA_L
ClientSampled :
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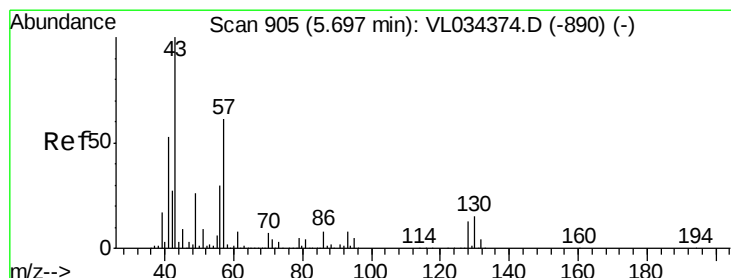
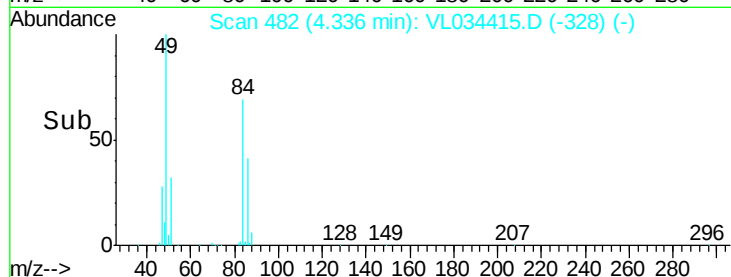
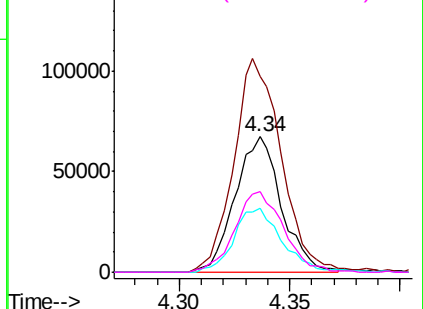
Tot Ion:	84	Resp:	98310
Ion	Ratio	Lower	Upper
84	100		
49	144.7	116.8	175.2
51	46.9	35.6	53.4
86	59.9	50.7	76.1

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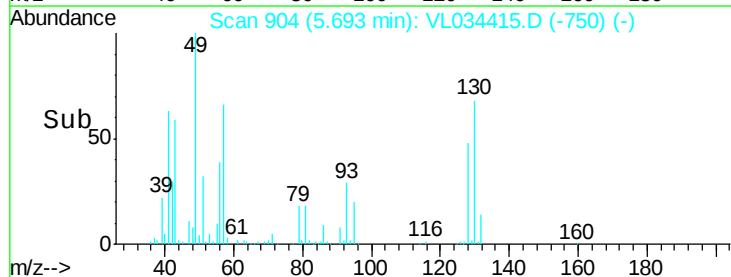
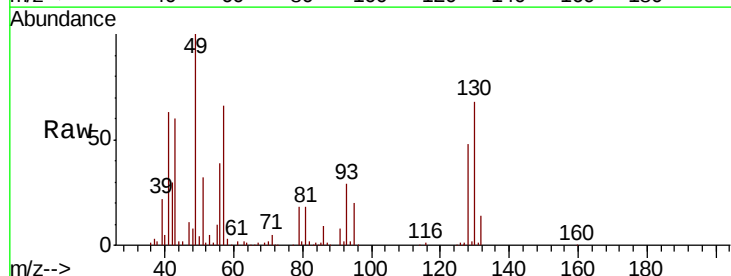
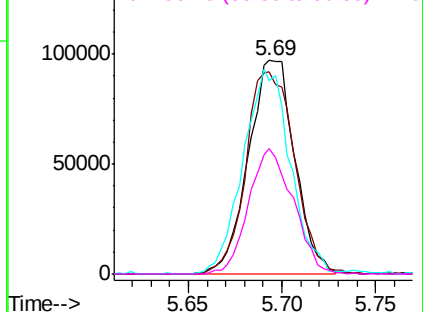
Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

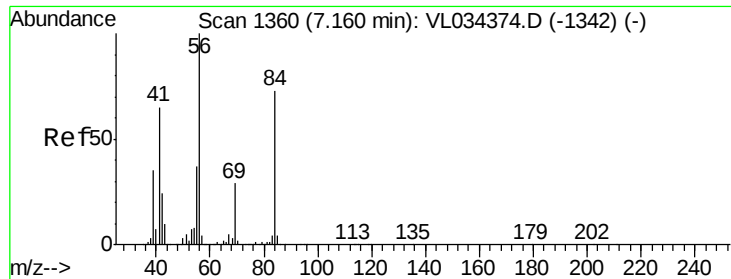


#26
Hexane
Concen: 1.646 ppbv m
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion:	57	Resp:	167586
Ion	Ratio	Lower	Upper
57	100		
41	99.4	75.0	112.4
43	98.7	186.6	279.8#
56	56.1	41.5	62.3

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





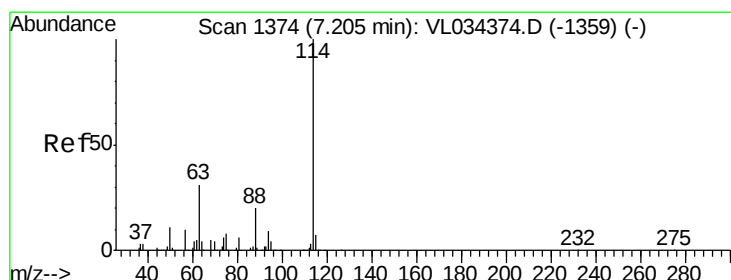
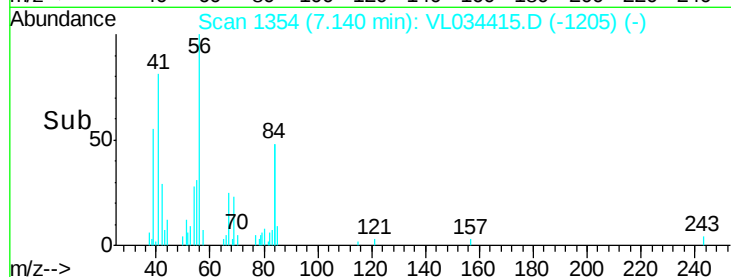
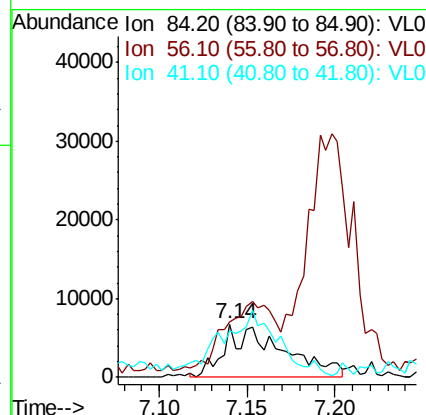
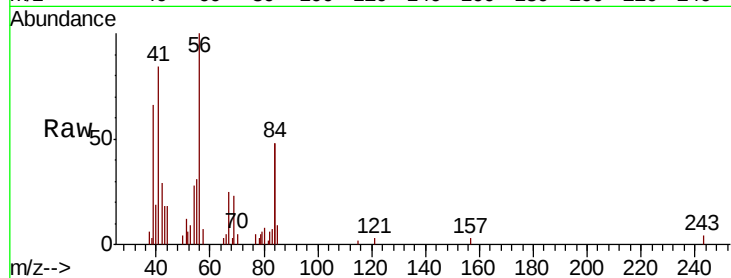
#30
Cyclohexane
Concen: 0.201 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. -0.02 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Instrument :
MSVOA_L
ClientSampled :
5

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	112.6	169.0#
41	100.8	73.4	110.2

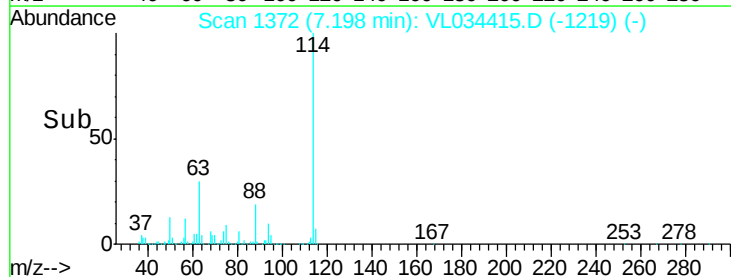
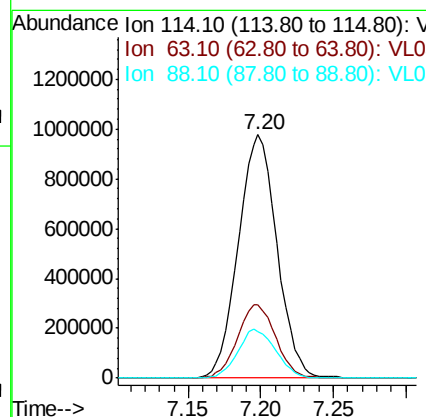
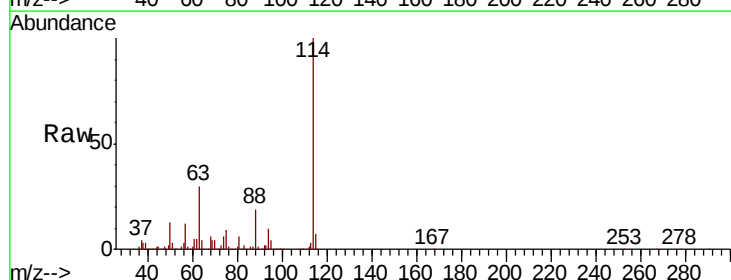
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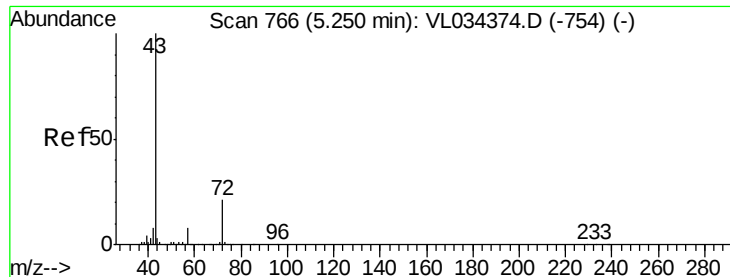
apatel
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.1	24.2	36.4
88	19.9	15.9	23.9





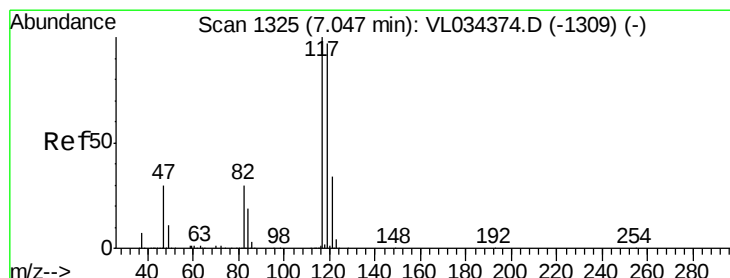
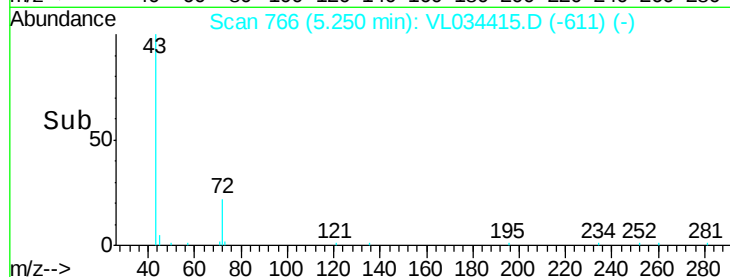
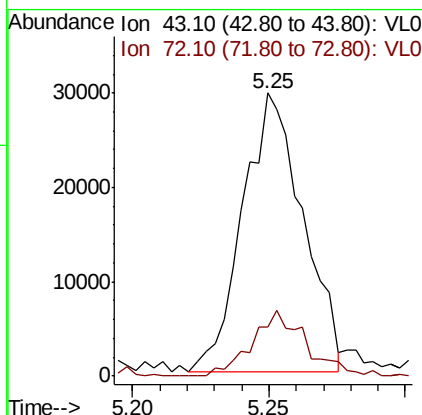
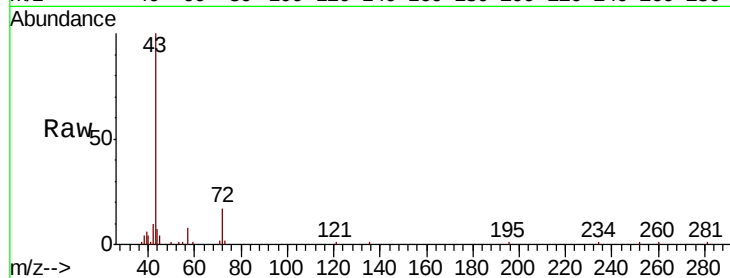
#34
2-Butanone
Concen: 0.303 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Instrument :
MSVOA_L
ClientSampleId :
5

Tot Ion	43	Resp	45135
Ion Ratio	Lower	Upper	
43	100		
72	21.5	17.0	25.6

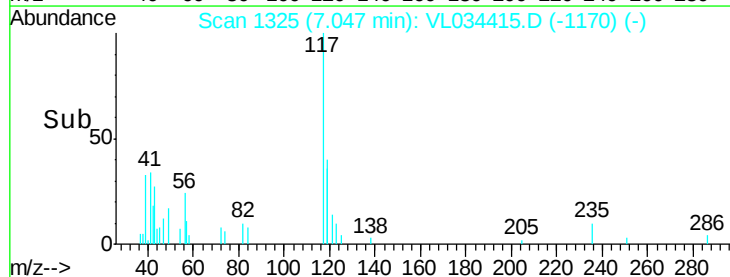
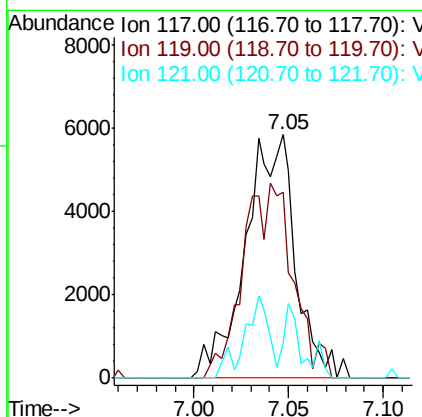
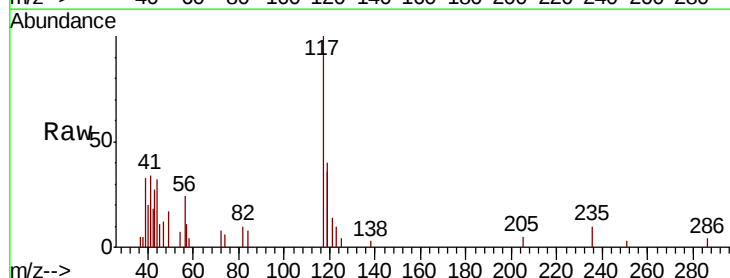
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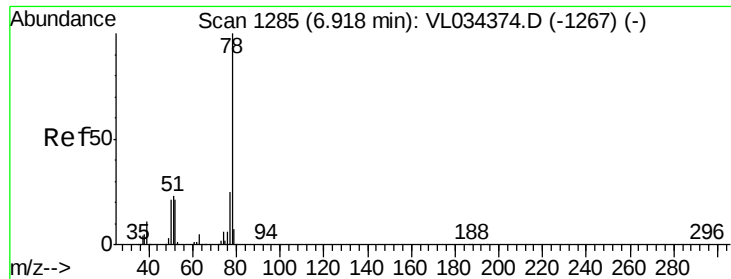
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#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.05 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion	117	Resp	10699
Ion Ratio	Lower	Upper	
117	100		
119	40.2	77.3	115.9#
121	14.5	27.4	41.2#





#36

Benzene

Concen: 0.211 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VL034415.D

Acq: 25 Nov 2019 20:59

Instrument :

MSVOA_L

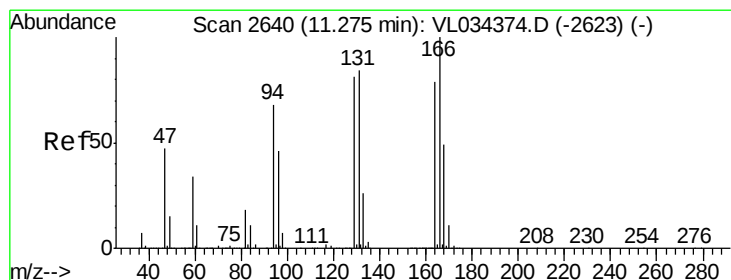
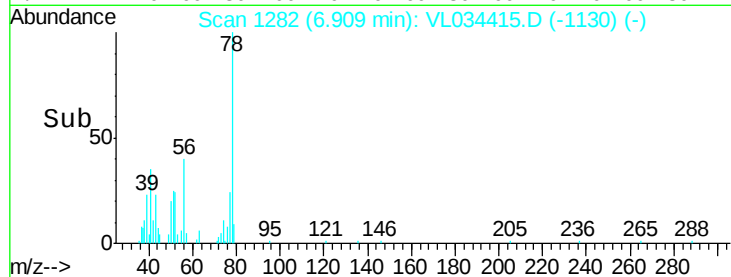
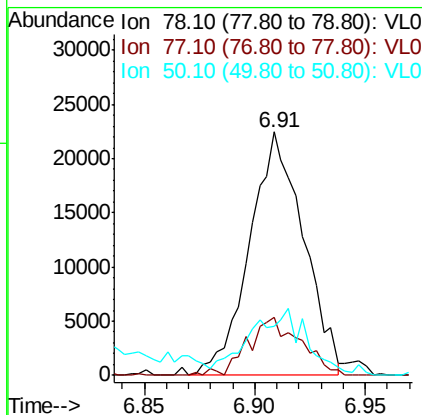
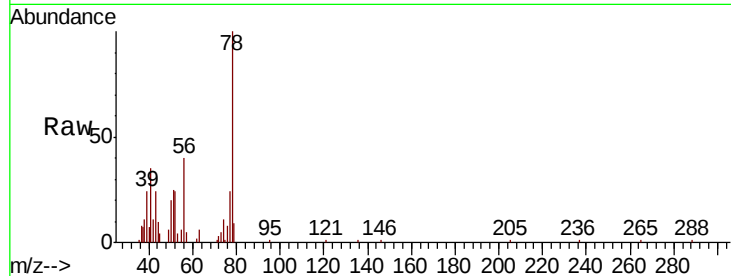
ClientSampled :

5

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.1	20.2	30.4
50	16.8	17.1	25.7#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.034 ppbv m

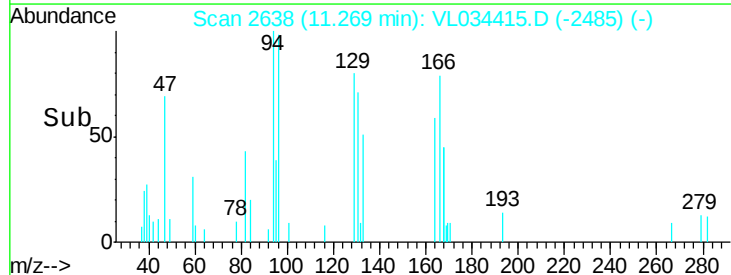
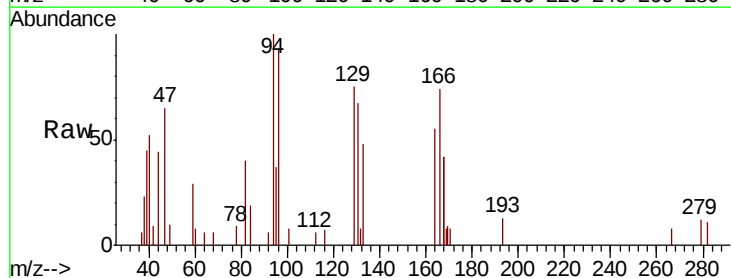
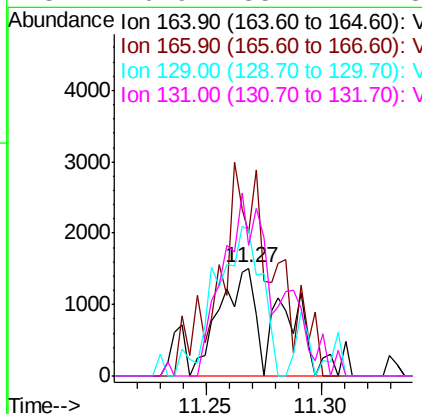
RT: 11.27 min Scan# 2638

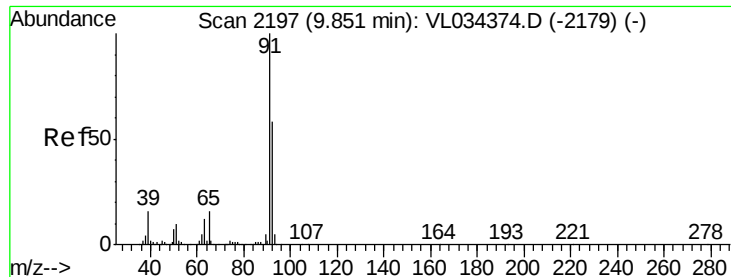
Delta R.T. -0.01 min

Lab File: VL034415.D

Acq: 25 Nov 2019 20:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.4	101.7	152.5
129	135.3	82.6	123.8#
131	120.9	85.2	127.8





#53

Toluene

Concen: 0.568 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VL034415.D

Acq: 25 Nov 2019 20:59

Instrument :

MSVOA_L

ClientSampleId :

5

Tot Ion: 91 Resp: 116702

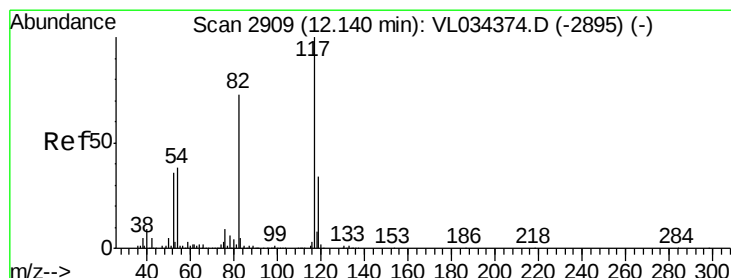
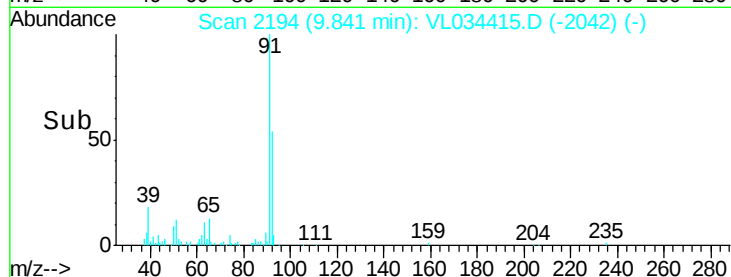
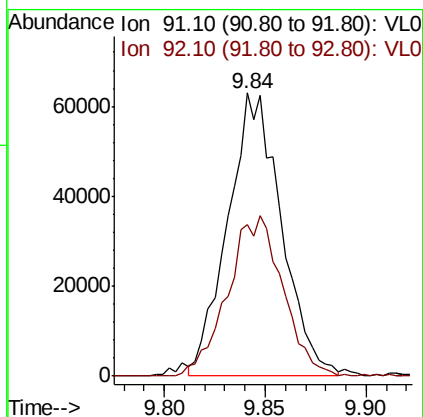
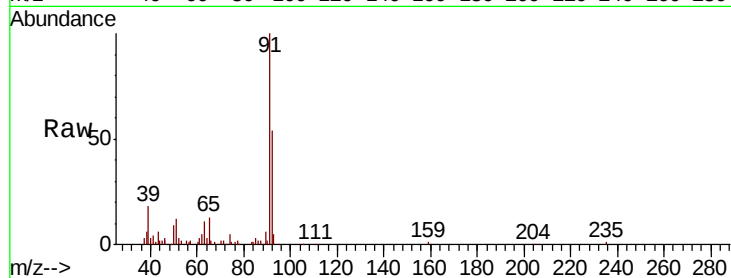
Ion Ratio Lower Upper

91 100

92 58.3 47.9 71.9

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL034415.D

Acq: 25 Nov 2019 20:59

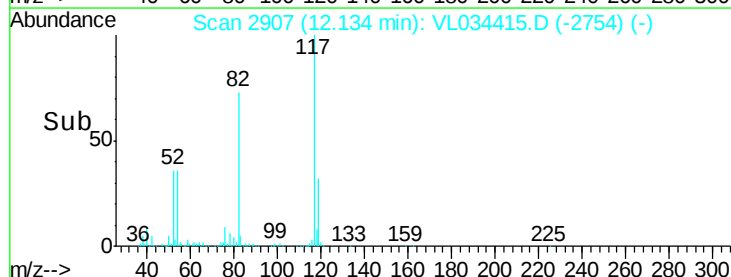
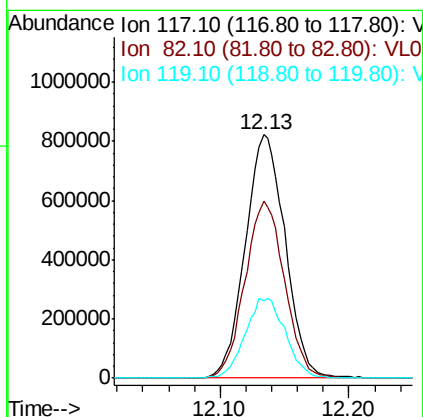
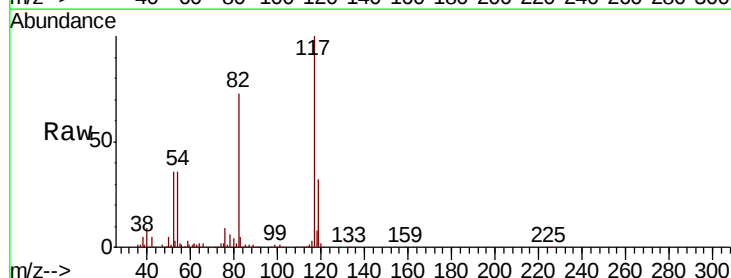
Tgt Ion: 117 Resp: 1766746

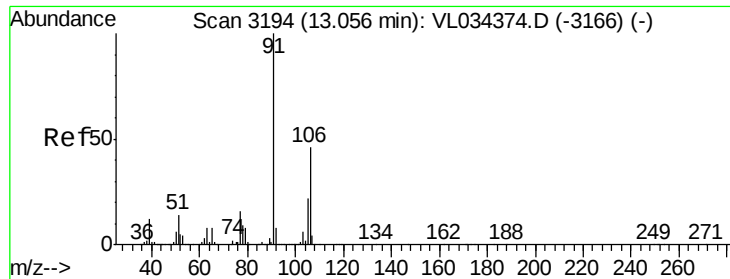
Ion Ratio Lower Upper

117 100

82 72.6 57.5 86.3

119 33.4 25.4 38.2





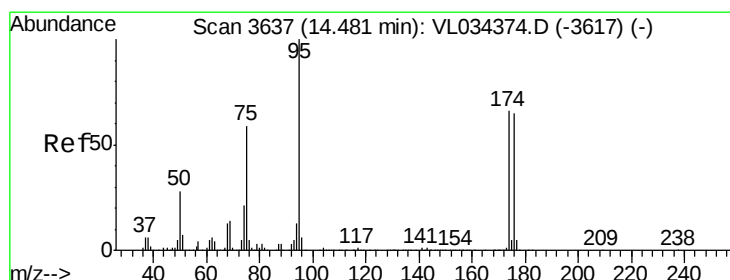
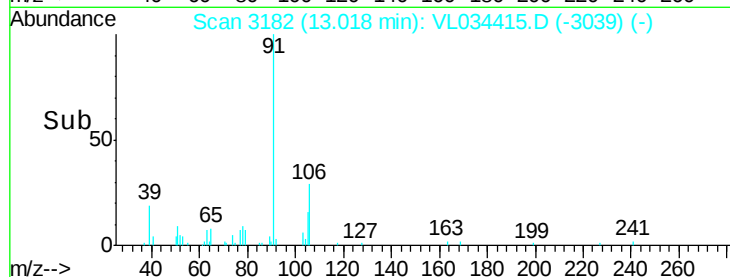
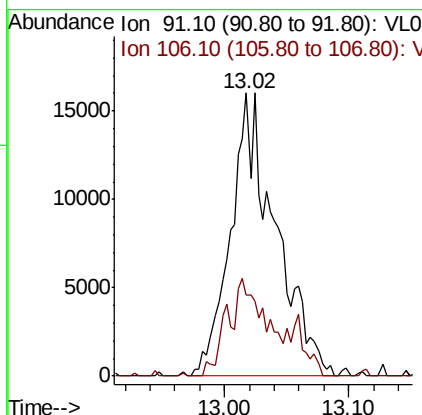
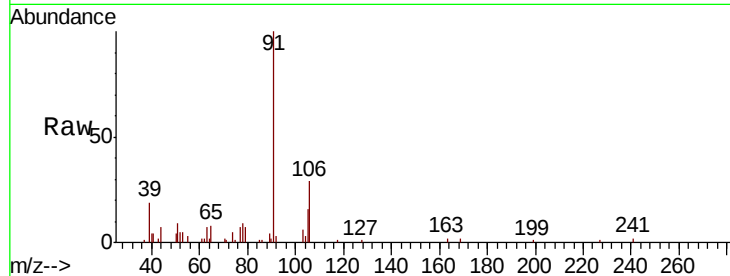
#59
m/p-Xylene
Concen: 0.169 ppbv m
RT: 13.02 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Instrument :
MSVOA_L
ClientSampled :
5

Tot Ion: 91 Resp: 39946
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

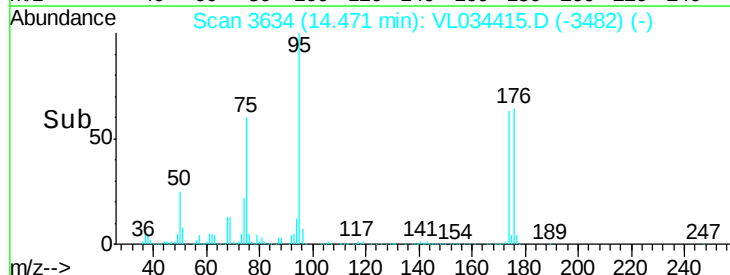
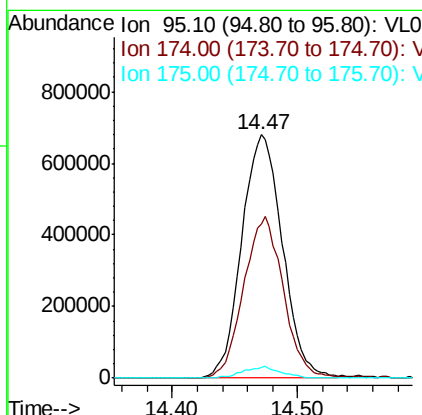
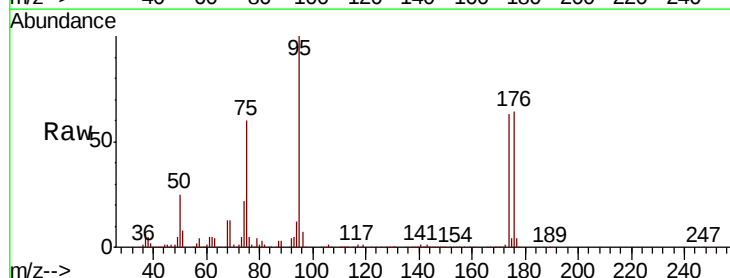
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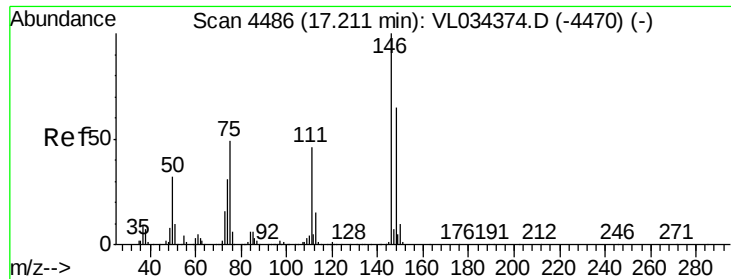
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.324 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034415.D
Acq: 25 Nov 2019 20:59

Tgt Ion: 95 Resp: 1534420
Ion Ratio Lower Upper
95 100
174 64.7 52.2 78.2
175 4.4 3.8 5.8





#76

1,4-Dichlorobenzene

Concen: 0.204 ppbv m

RT: 17.21 min Scan# 4485

Delta R.T. -0.00 min

Lab File: VL034415.D

Acq: 25 Nov 2019 20:59

Instrument :

MSVOA_L

ClientSampleId :

5

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	24.1	72.3
148	0.0	32.9	98.6

Manual Integrations
APPROVED

apatel
12/2/2019 10:04:21 AM

