

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120219\
 Data File : VL034439.D
 Acq On : 2 Dec 2019 23:18
 Operator : SY/AP
 Sample : K6097-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1A

Manual Integrations
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Quant Time: Dec 03 14:11:05 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	5.68	49	757091	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1509037	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1441790	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1242527	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.03	85	89339	0.652	ppbv	93
3) Chlorodifluoromethane	2.97	51	34707m	0.367	ppbv	
4) Chloromethane	3.12	50	26636	0.478	ppbv #	83
9) Propene	3.00	41	31014m	0.740	ppbv	
11) Trichlorofluoromethane	3.94	101	36796	0.270	ppbv	88
13) Ethanol	3.60	45	104688	8.961	ppbv	86
15) Acetone	3.85	43	220457	2.034	ppbv	94
19) Isopropyl Alcohol	3.99	45	33189m	0.478	ppbv	
20) Methylene Chloride	4.35	84	97175	2.528	ppbv	97
26) Hexane	5.71	57	94370	1.135	ppbv #	40
35) Carbon Tetrachloride	7.06	117	10663m	0.082	ppbv	
36) Benzene	6.92	78	40509m	0.269	ppbv	
44) 2,2,4-Trimethylpentane	7.90	57	30622m	0.111	ppbv	
53) Toluene	9.85	91	205208	1.198	ppbv	94

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

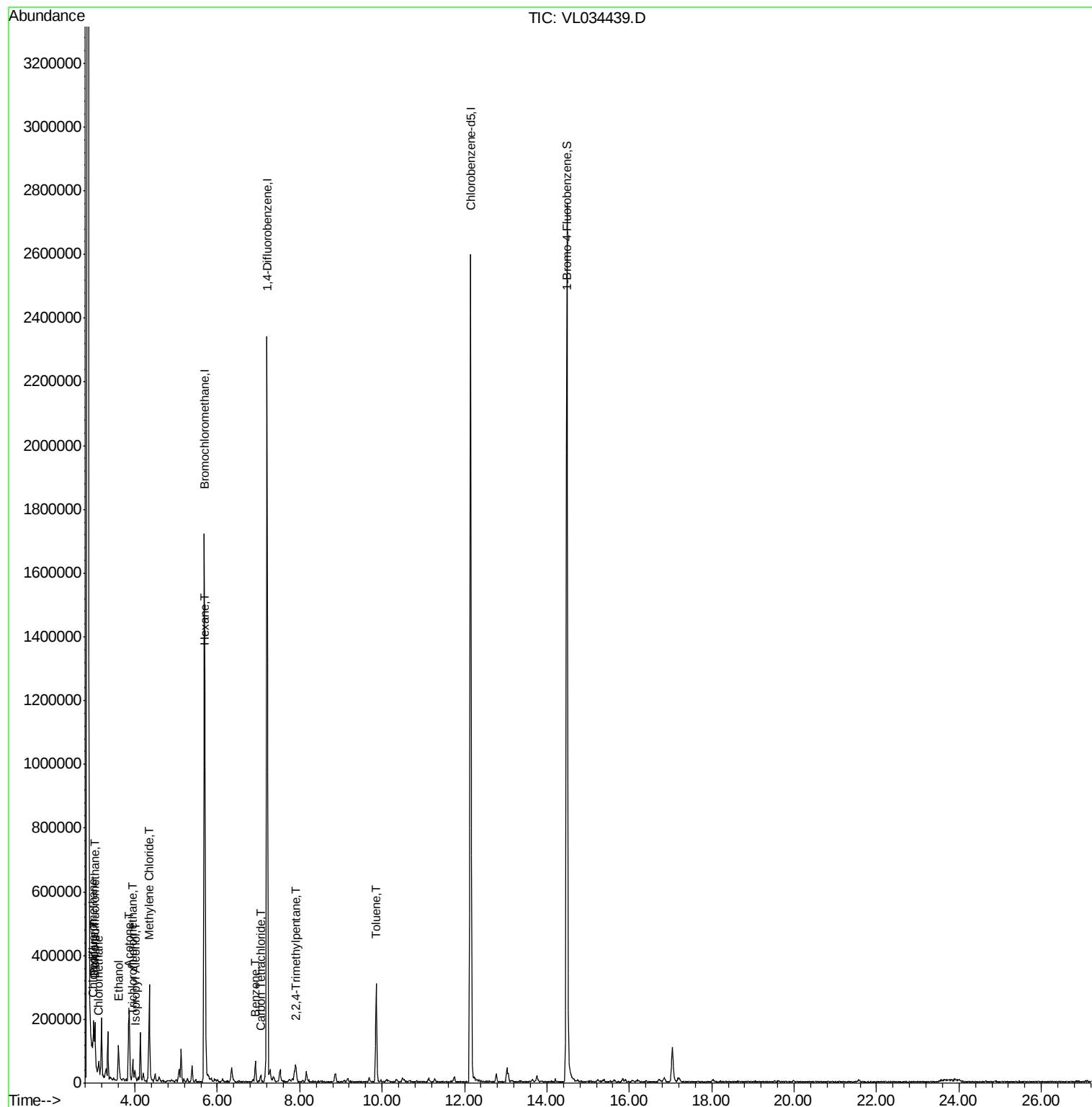
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120219\
Data File : VL034439.D
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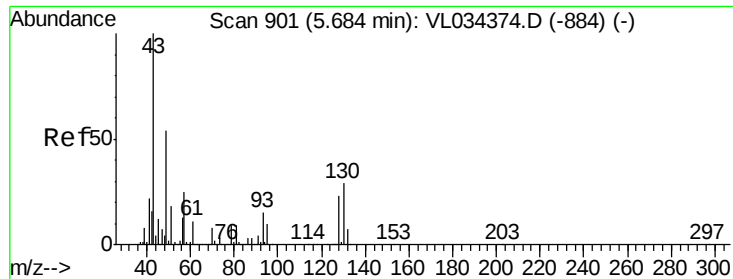
Instrument :
MSVOA_L
ClientSampleId :
OA-1A

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Quant Time: Dec 03 14:11:05 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: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

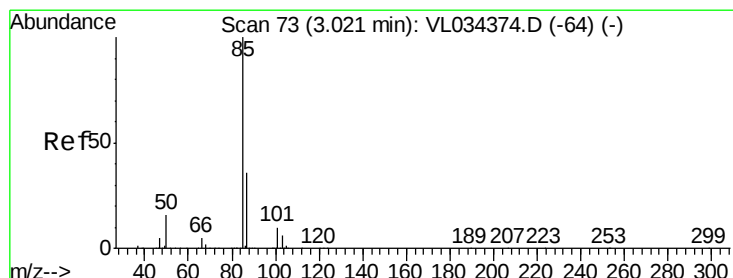
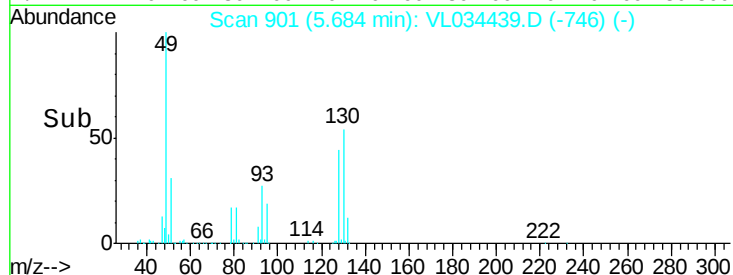
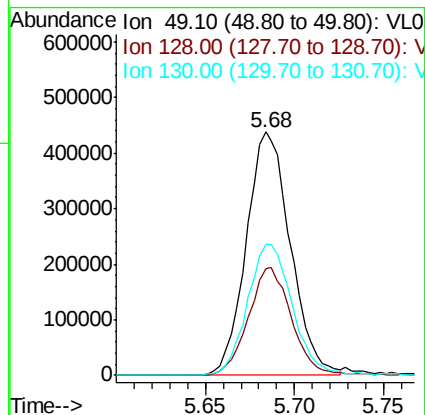
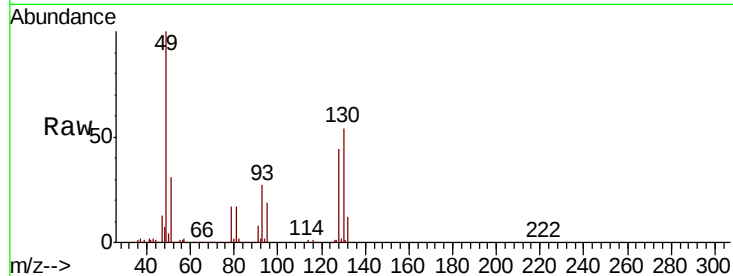
ClientSampled :

QA-1A

Tot Ion:	49	Resp:	757091
Ion Ratio	Lower	Upper	
49	100		
128	44.0	21.8	65.3
130	55.6	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.652 ppbv

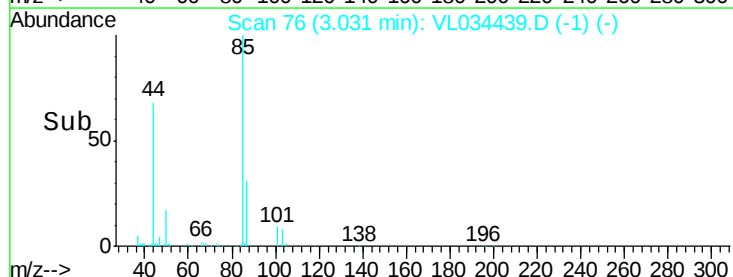
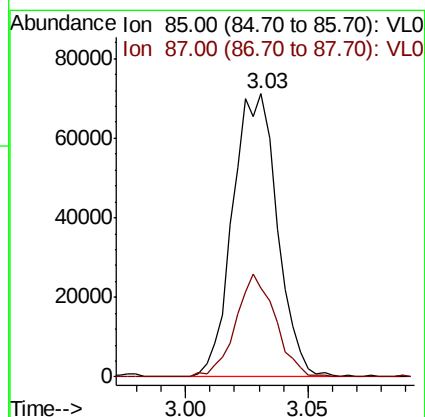
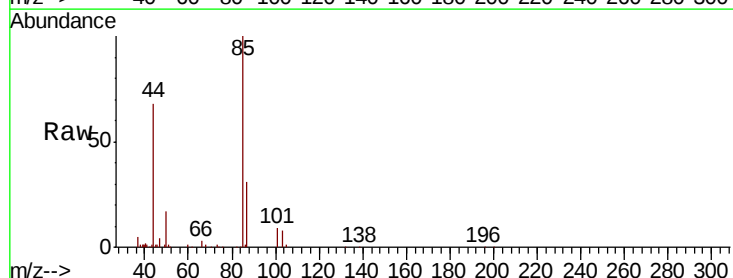
RT: 3.03 min Scan# 76

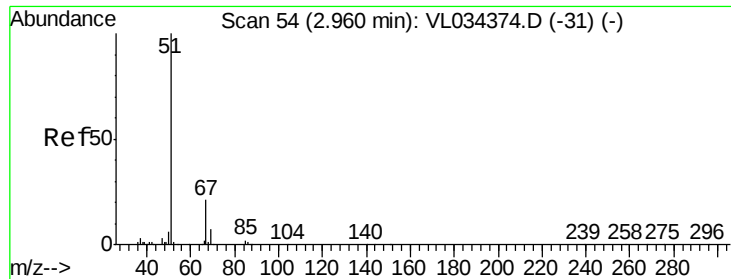
Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Tgt Ion:	85	Resp:	89339
Ion Ratio	Lower	Upper	
85	100		
87	31.6	28.5	42.7





#3

Chlorodifluoromethane

Concen: 0.367 ppbv m

RT: 2.97 min Scan# 56

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

QA-1A

Tot Ion: 51 Resp: 34707

Ion Ratio Lower Upper

51 100

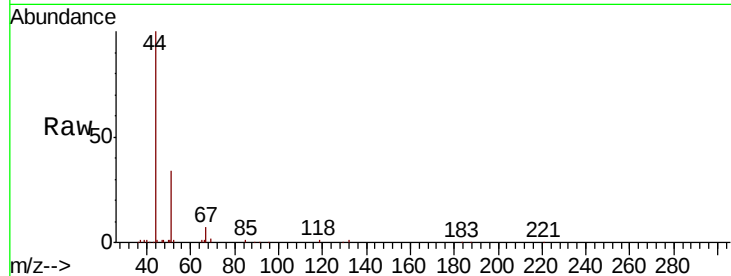
67 20.3 16.2 24.2

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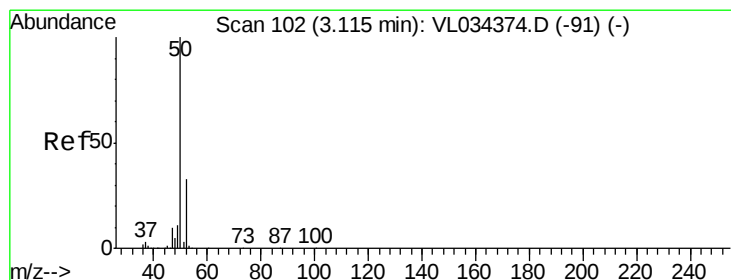
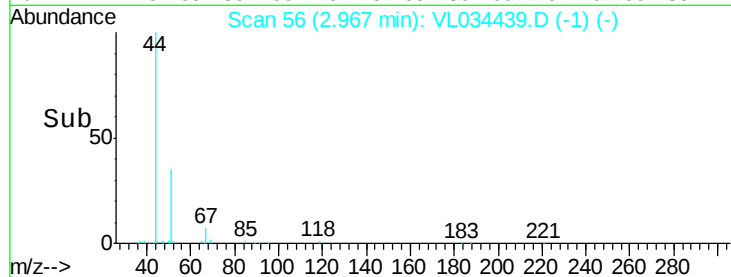
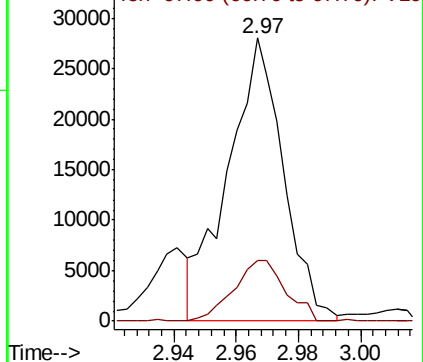
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.478 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.01 min

Lab File: VL034439.D

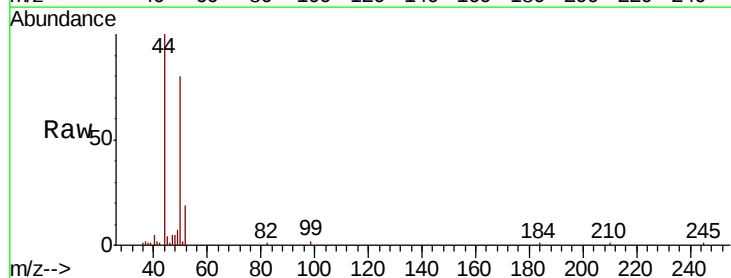
Acq: 2 Dec 2019 23:18

Tgt Ion: 50 Resp: 26636

Ion Ratio Lower Upper

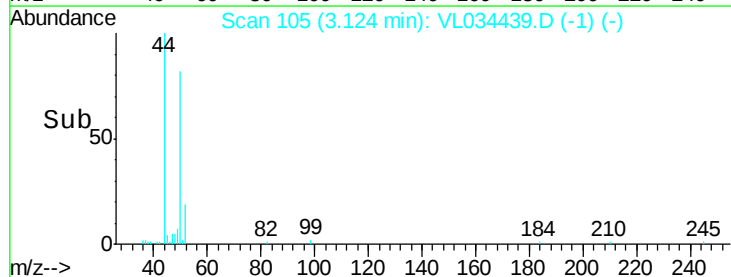
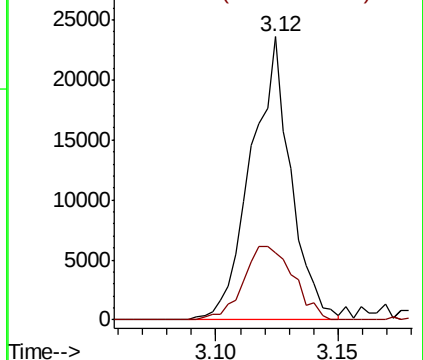
50 100

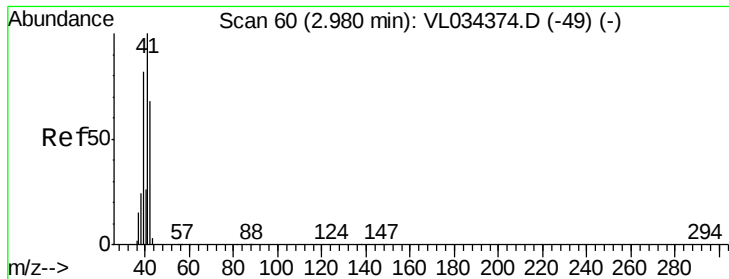
52 23.8 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.740 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

QA-1A

Tot Ion: 41 Resp: 31014

Ion Ratio Lower Upper

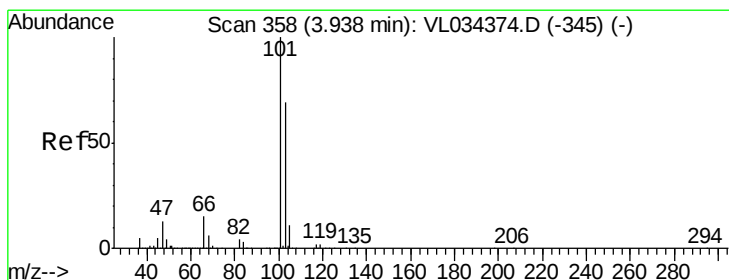
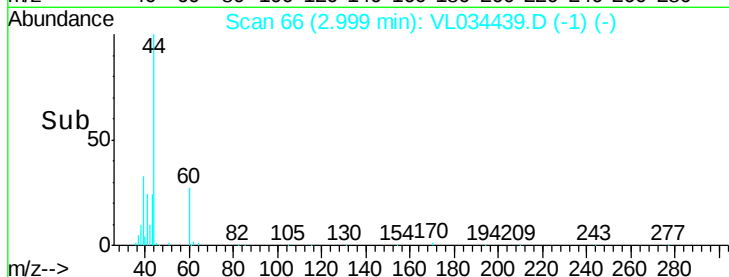
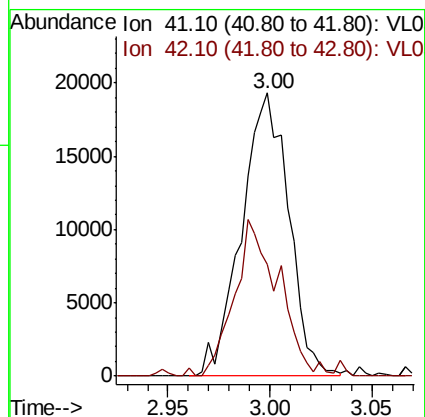
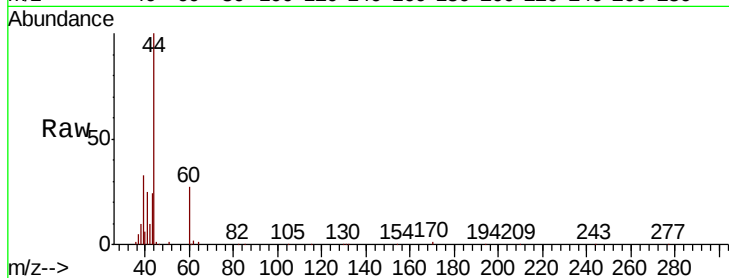
41 100

42 97.5 54.6 82.0#

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#11

Trichlorofluoromethane

Concen: 0.270 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.01 min

Lab File: VL034439.D

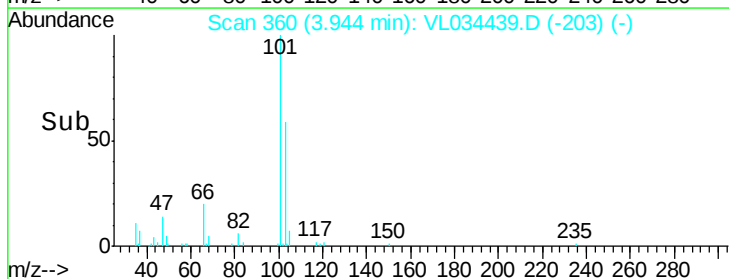
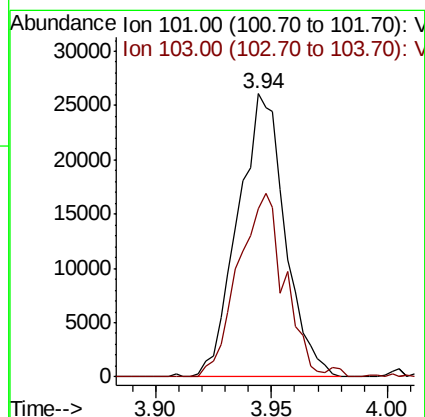
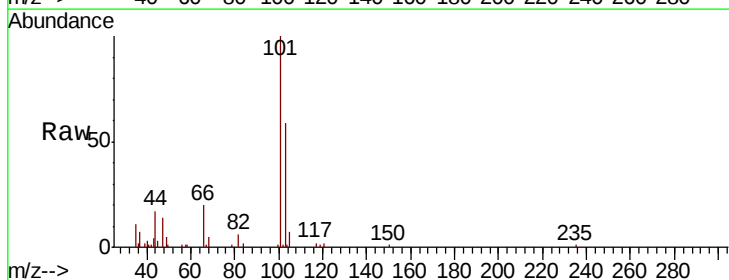
Acq: 2 Dec 2019 23:18

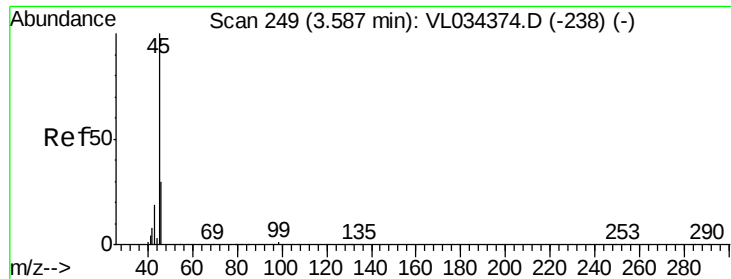
Tgt Ion: 101 Resp: 36796

Ion Ratio Lower Upper

101 100

103 59.3 55.4 83.0





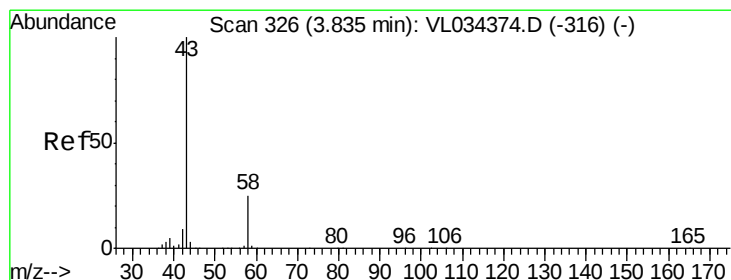
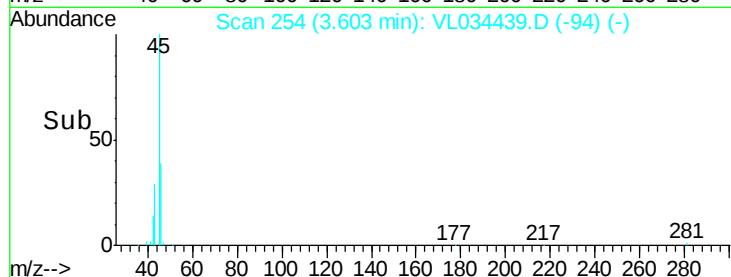
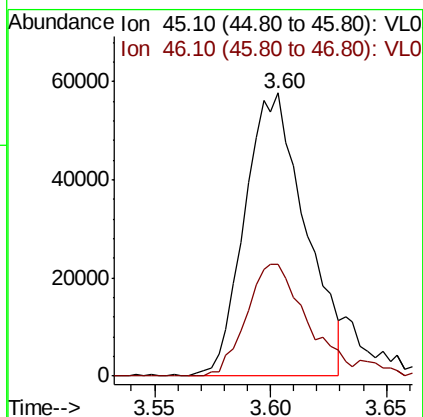
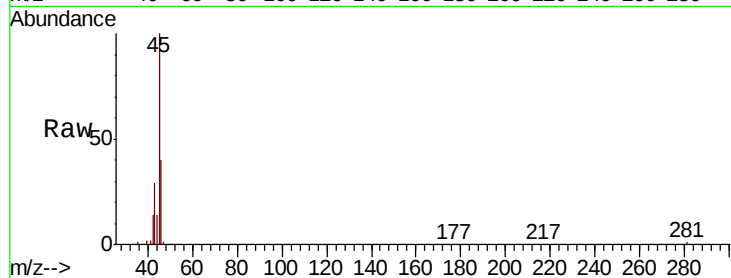
#13
Ethanol
Concen: 8.961 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.02 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Instrument :
MSVOA_L
ClientSampleId :
QA-1A

Tot Ion: 45 Resp: 104688
Ion Ratio Lower Upper
45 100
46 42.7 13.8 55.4

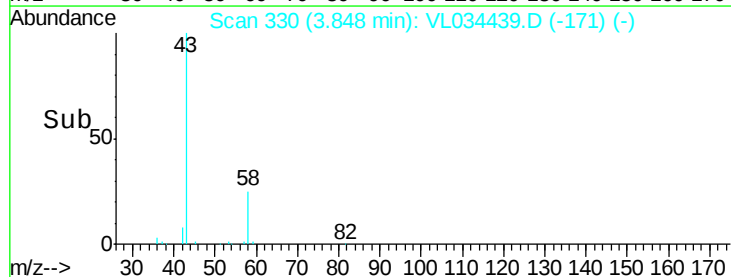
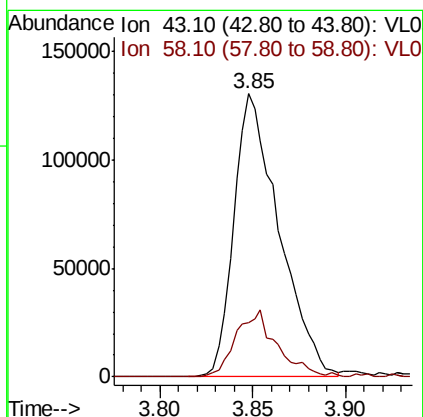
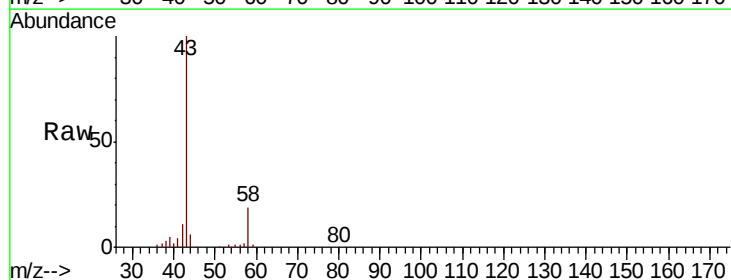
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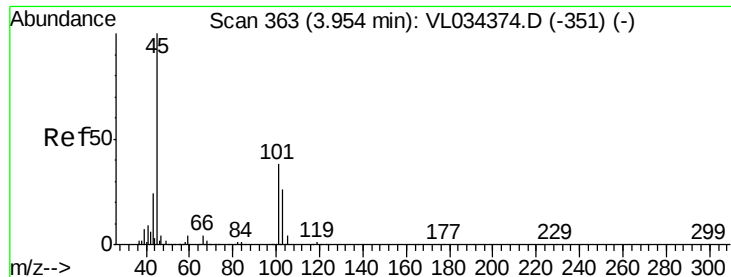
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#15
Acetone
Concen: 2.034 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Tgt Ion: 43 Resp: 220457
Ion Ratio Lower Upper
43 100
58 22.4 20.2 30.4





#19

Isopropyl Alcohol

Concen: 0.478 ppbv m

RT: 3.99 min Scan# 374

Delta R.T. 0.04 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

ClientSampleId :

QA-1A

Tot Ion: 45 Resp: 33189

Ion Ratio Lower Upper

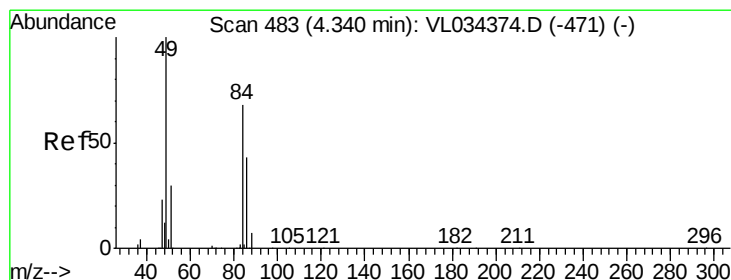
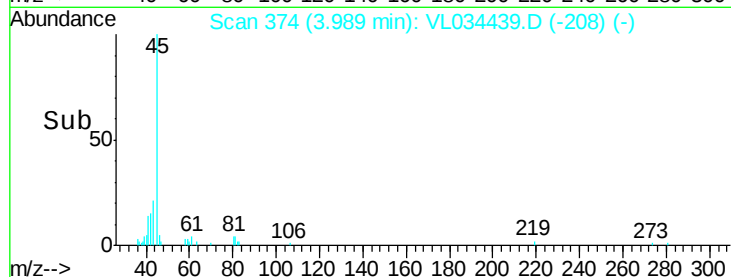
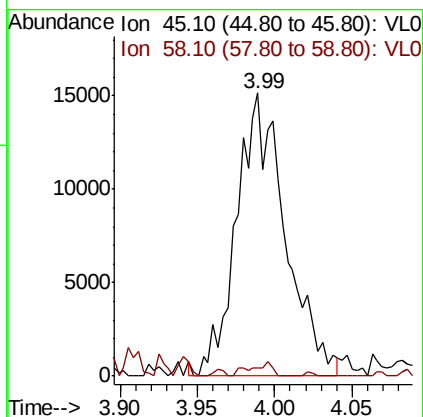
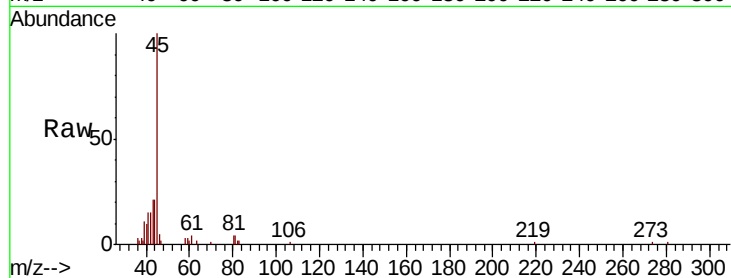
45 100

58 142.8 1.3 1.9#

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#20

Methylene Chloride

Concen: 2.528 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Tgt Ion: 84 Resp: 97175

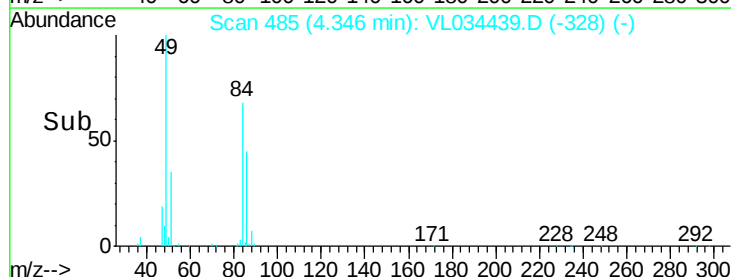
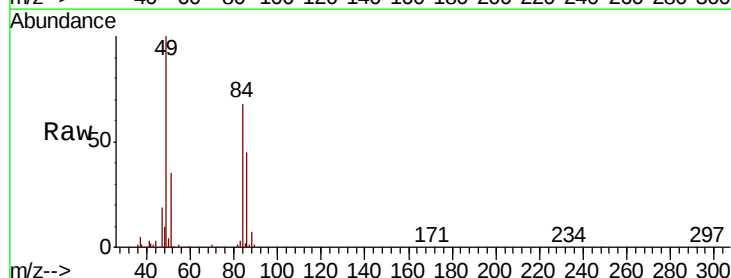
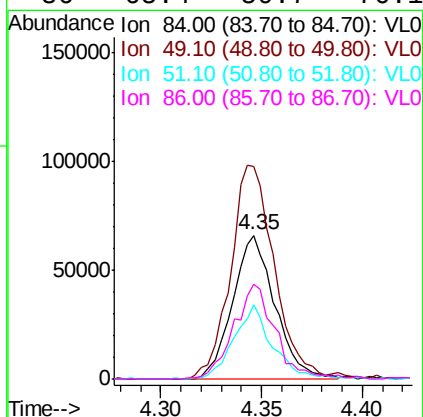
Ion Ratio Lower Upper

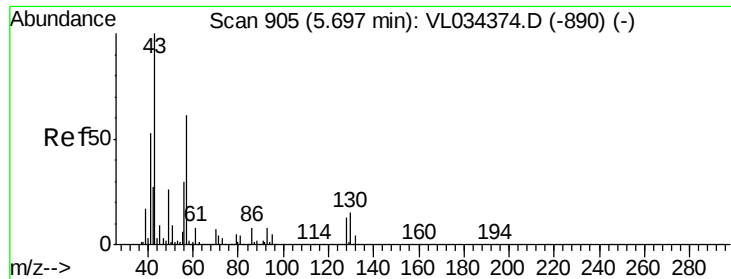
84 100

49 147.1 116.8 175.2

51 51.4 35.6 53.4

86 65.4 50.7 76.1





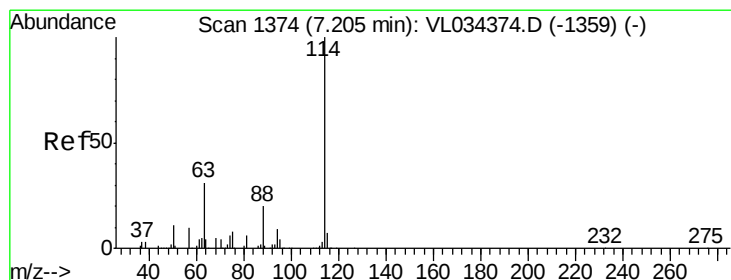
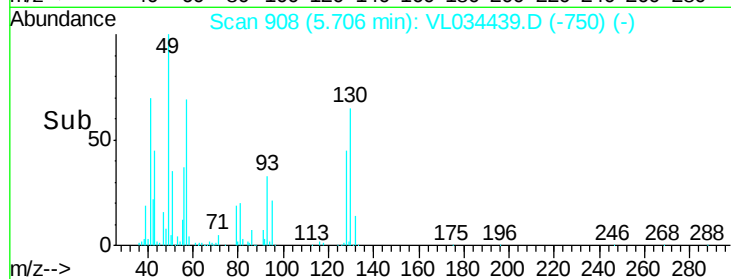
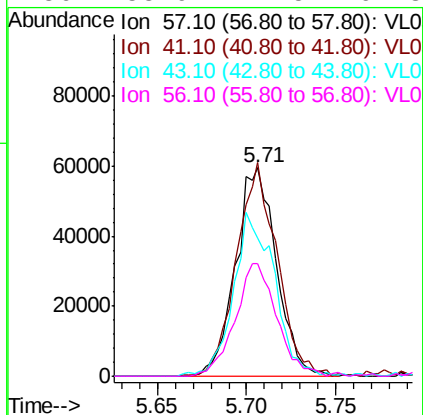
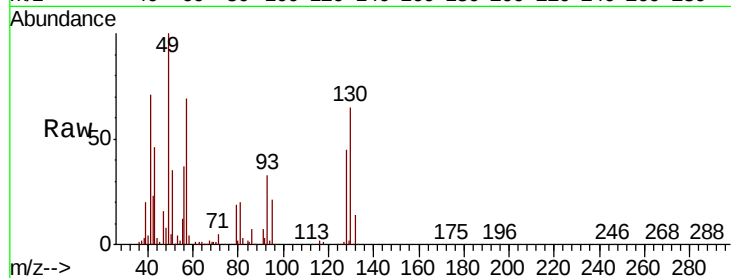
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Hexane
Concen: 1.135 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Instrument :
MSVOA_L
ClientSampleId :
QA-1A

Tot Ion	Ratio	Lower	Upper
57	100		
41	102.5	75.0	112.4
43	79.6	186.6	279.8#
56	55.9	41.5	62.3

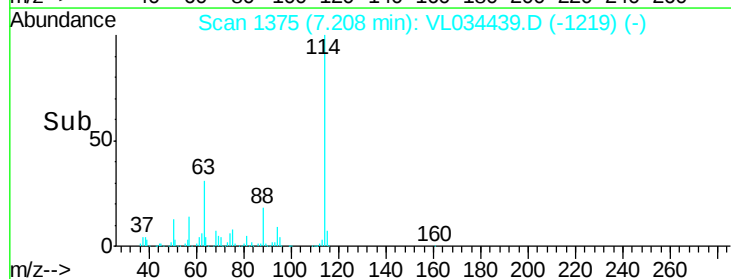
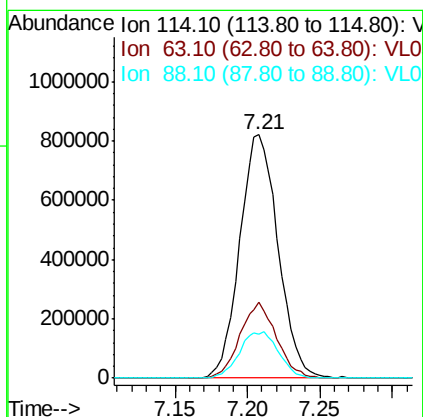
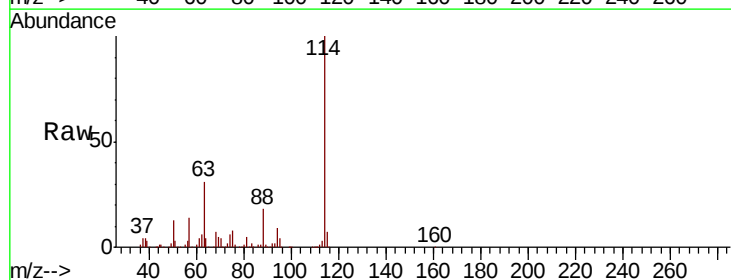
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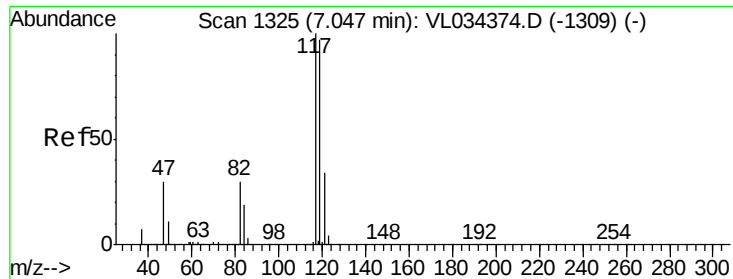
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.7	24.2	36.4
88	19.6	15.9	23.9





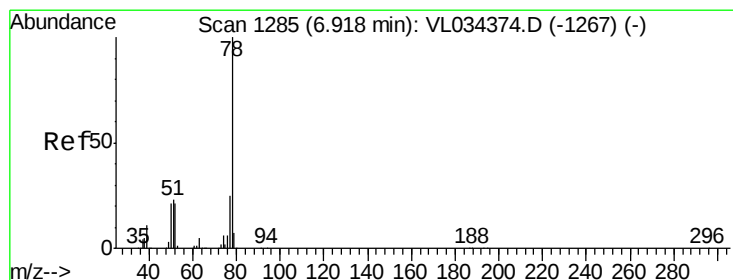
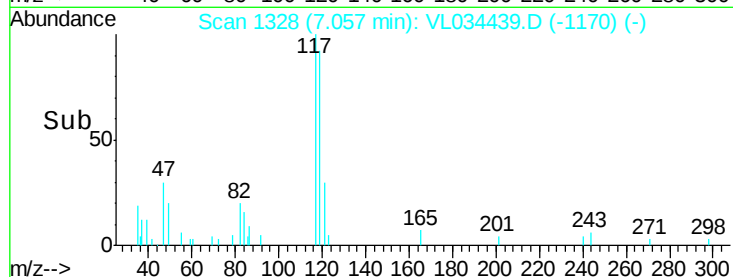
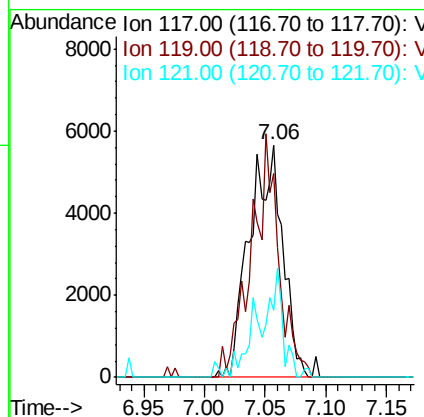
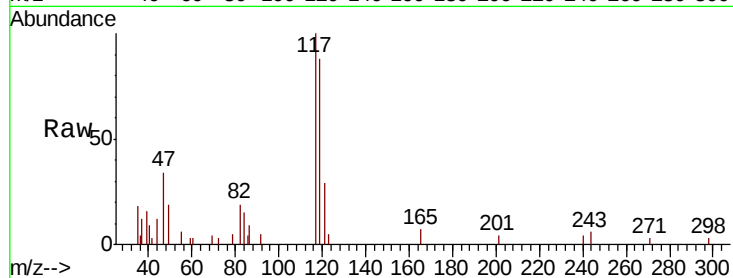
#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.06 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Instrument :
MSVOA_L
ClientSampleId :
QA-1A

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.9	77.3	115.9
121	28.9	27.4	41.2

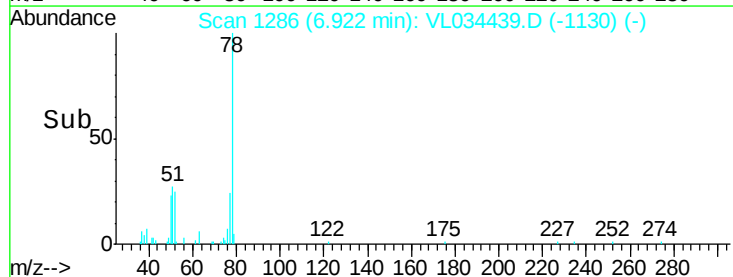
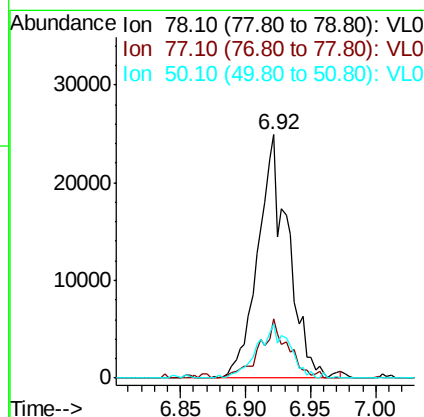
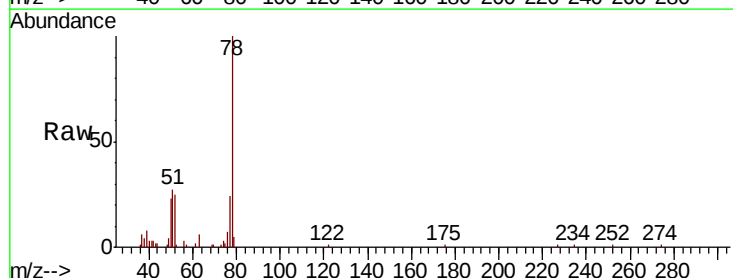
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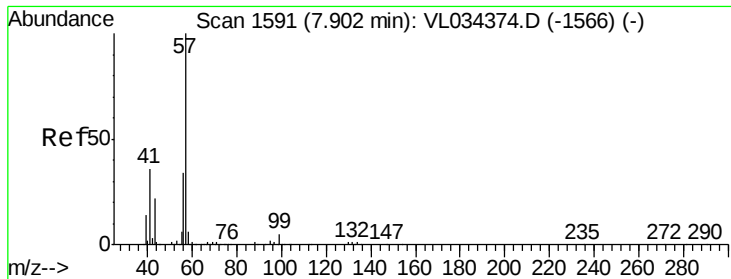
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#36
Benzene
Concen: 0.269 ppbv m
RT: 6.92 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	20.2	30.4
50	22.5	17.1	25.7





#44

2,2,4-Trimethylpentane

Concen: 0.111 ppbv m

RT: 7.90 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Instrument :

MSVOA_L

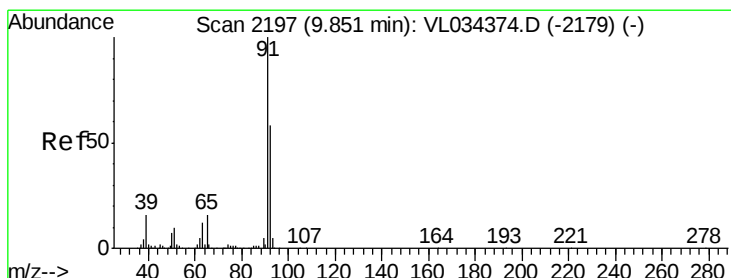
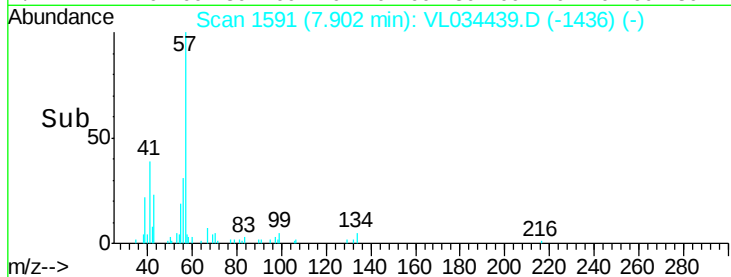
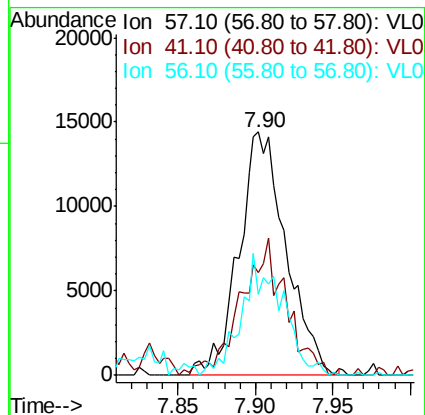
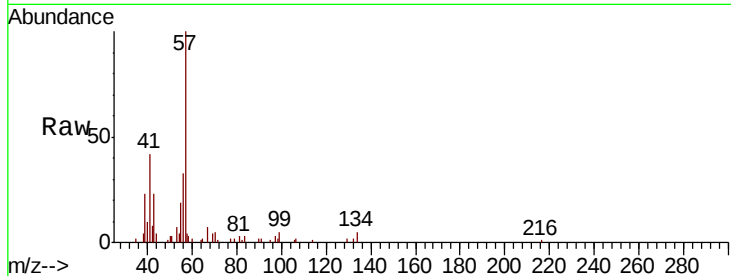
ClientSampled :

QA-1A

Tot Ion:	57	Resp:	30622
Ion Ratio	Lower	Upper	
57	100		
41	53.5	28.6	42.8#
56	0.0	25.3	37.9#

Manual Integrations
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#53

Toluene

Concen: 1.198 ppbv

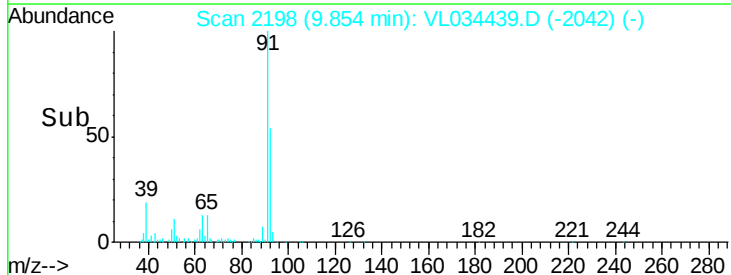
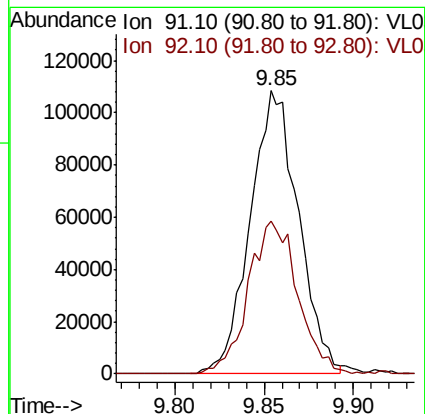
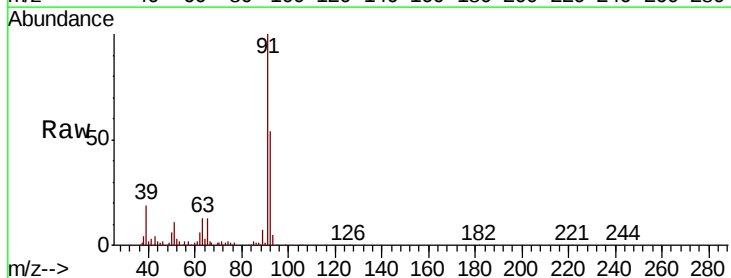
RT: 9.85 min Scan# 2198

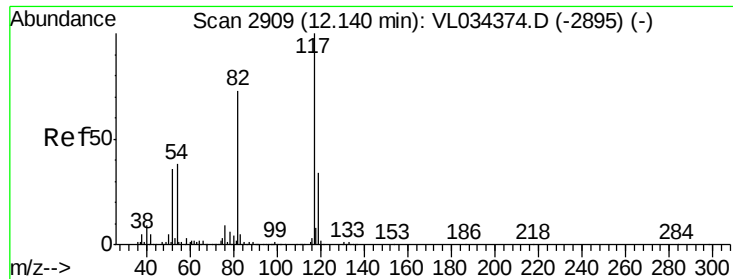
Delta R.T. 0.00 min

Lab File: VL034439.D

Acq: 2 Dec 2019 23:18

Tgt Ion:	91	Resp:	205208
Ion Ratio	Lower	Upper	
91	100		
92	55.4	47.9	71.9





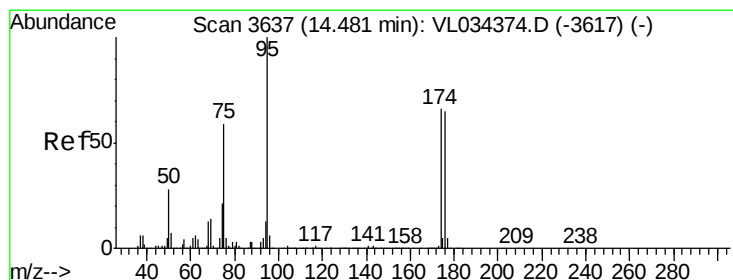
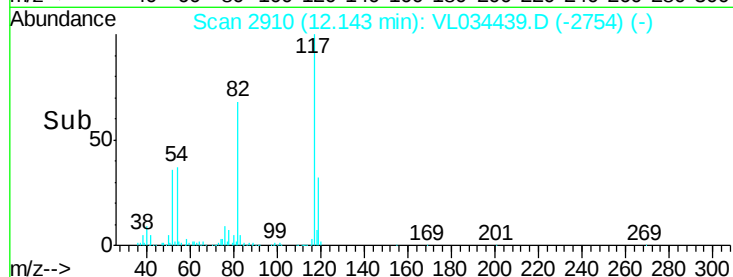
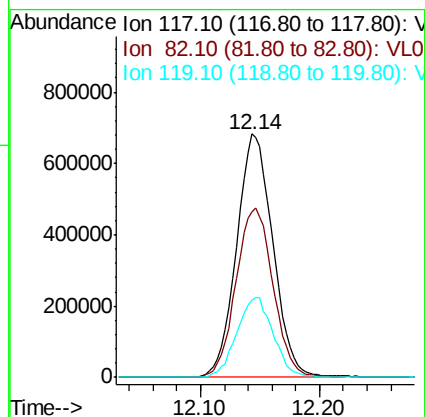
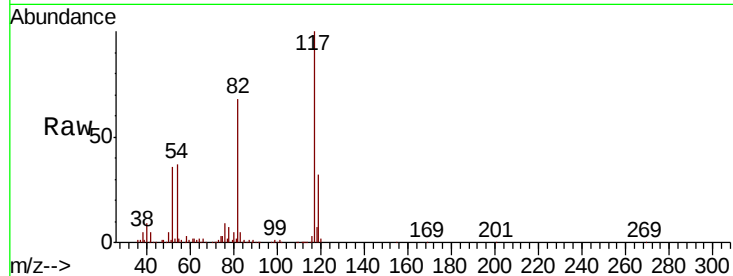
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Instrument :
MSVOA_L
ClientSampleId :
QA-1A

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.3	57.5	86.3
119	32.9	25.4	38.2

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.244 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. 0.00 min
Lab File: VL034439.D
Acq: 2 Dec 2019 23:18

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.3	52.2	78.2
175	4.6	3.8	5.8

