

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL037011.D
 Acq On : 20 May 2021 3:42
 Operator : SY/AP
 Sample : M2424-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-05

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:02:35 PM

Quant Time: May 20 08:39:05 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	991611	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	2969912	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	2713999	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2094896	10.28	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.99	41	140167	2.155	ppbv	94
10) Heptane	8.10	43	37537	0.232	ppbv	96
13) Ethanol	3.60	45	86687m	9.988	ppbv	
15) Acetone	3.82	43	3670504	36.138	ppbv	98
17) tert-Butyl alcohol	4.29	59	29921m	0.322	ppbv	
19) Isopropyl Alcohol	3.97	45	55113m	1.009	ppbv	
20) Methylene Chloride	4.33	84	16772	0.308	ppbv #	82
26) Hexane	5.66	57	65782	0.528	ppbv #	28
27) Carbon Disulfide	4.53	76	204299	1.626	ppbv	97
30) Cyclohexane	7.10	84	18288	0.173	ppbv #	14
34) 2-Butanone	5.23	43	252992	2.339	ppbv #	90
36) Benzene	6.86	78	338401	1.323	ppbv	95
51) 2-Hexanone	10.13	43	35816	0.380	ppbv #	88
52) Tetrachloroethene	11.19	164	3213m	0.032	ppbv	
53) Toluene	9.77	91	359247m	1.180	ppbv	
58) Ethyl Benzene	12.68	91	45121m	0.118	ppbv	
59) m/p-Xylene	12.95	91	43782m	0.138	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	36748m	0.106	ppbv	

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

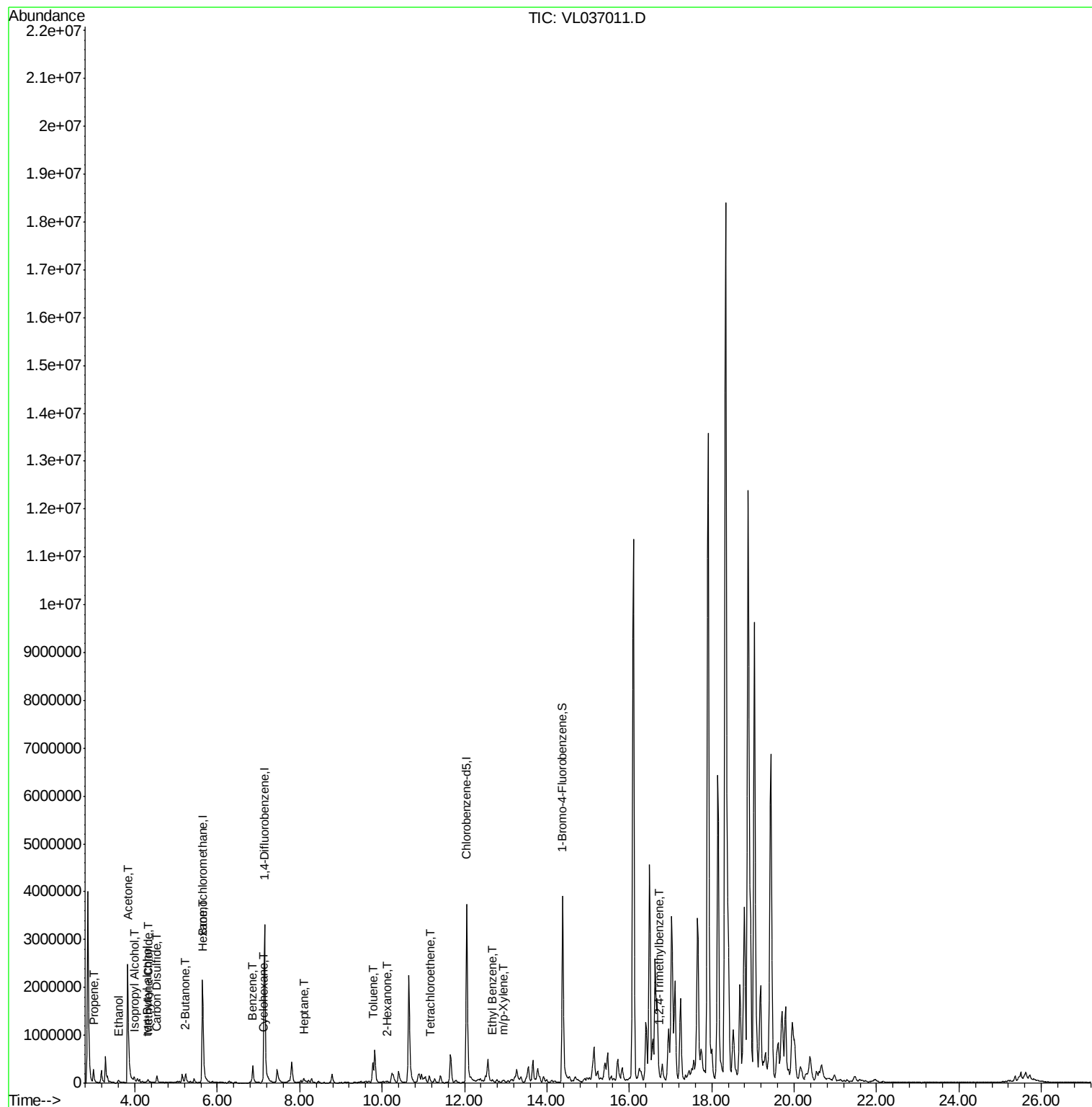
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
Data File : VL037011.D
Acq On : 20 May 2021 3:42
Operator : SY/AP
Sample : M2424-02 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

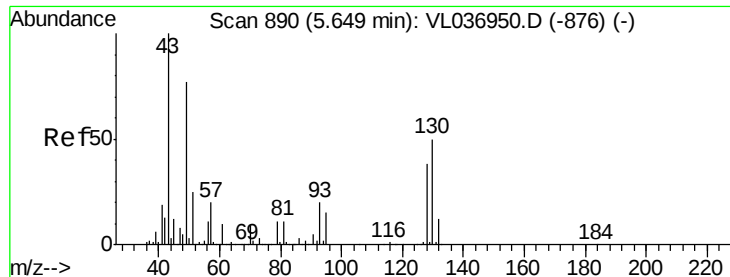
Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Manual Integrations
APPROVED

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5/24/2021 3:02:35 PM

Quant Time: May 20 08:39:05 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

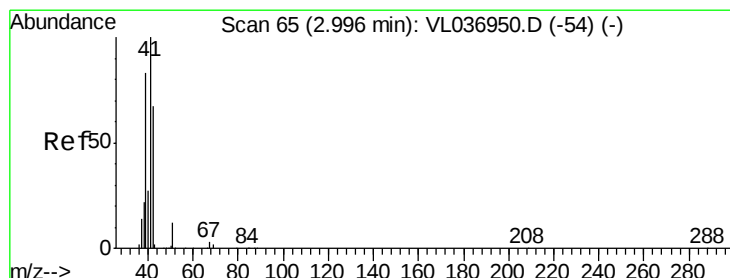
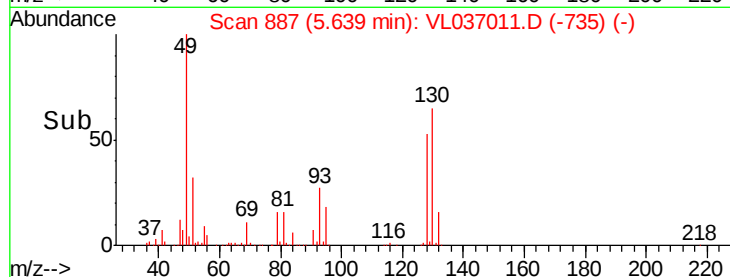
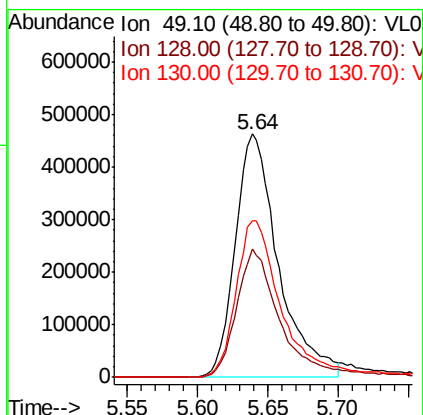
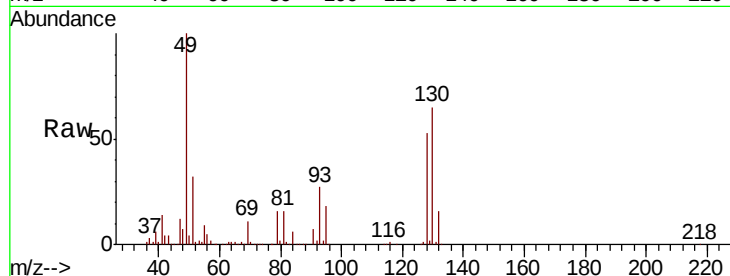
ClientSampled :

KSV-05

Tot Ion:	49	Resp:	991611
Ion Ratio	Lower	Upper	
49	100		
128	55.2	26.9	80.7
130	71.3	33.8	101.4

Manual Integrations
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#9

Propene

Concen: 2.155 ppbv

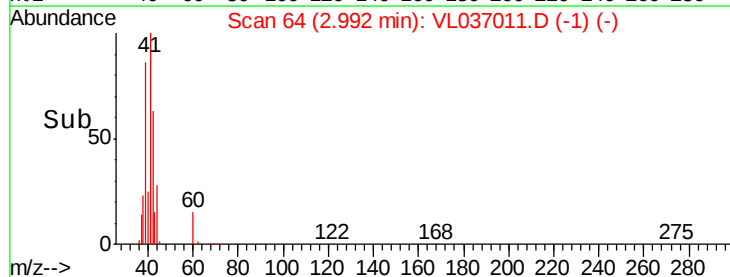
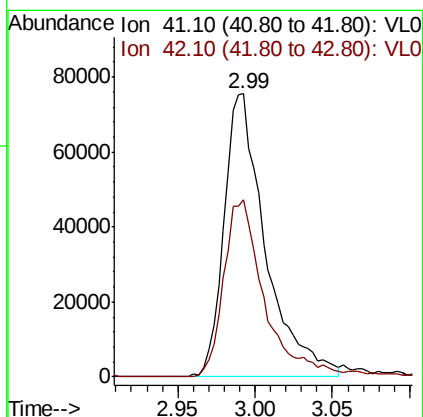
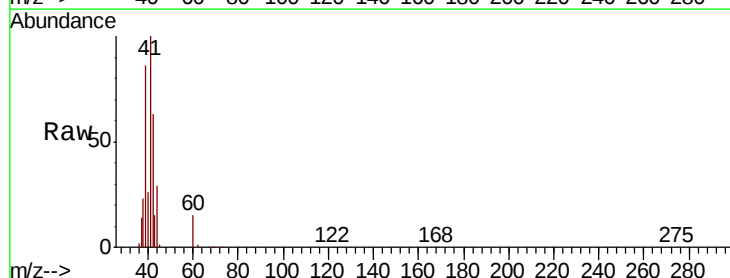
RT: 2.99 min Scan# 64

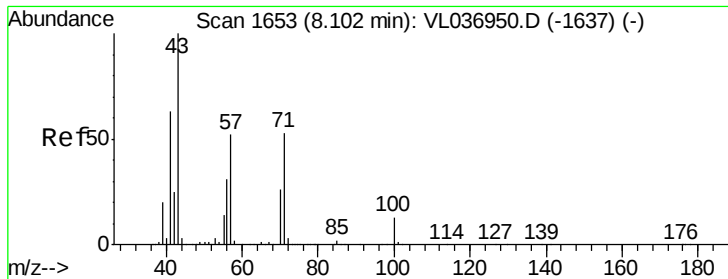
Delta R.T. -0.00 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Tgt Ion:	41	Resp:	140167
Ion Ratio	Lower	Upper	
41	100		
42	62.9	53.9	80.9





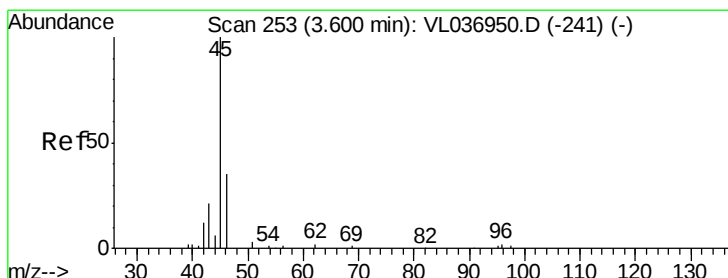
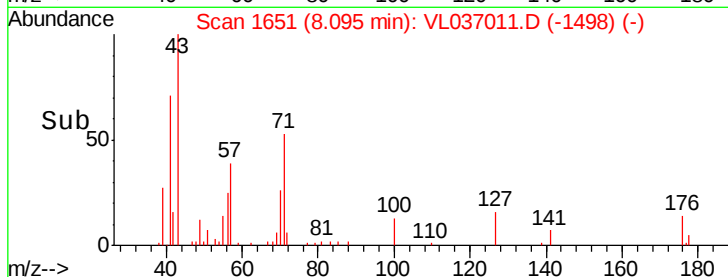
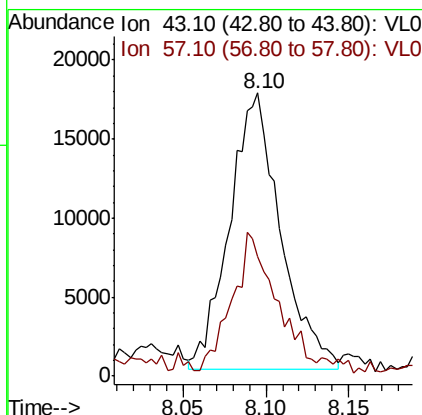
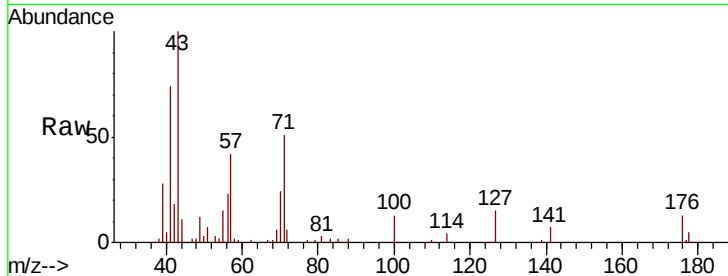
#10
Heptane
Concen: 0.232 ppbv
RT: 8.10 min Scan# 1651
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Instrument :
MSVOA_L
ClientSampled :
KSV-05

Tot Ion: 43 Resp: 37537
Ion Ratio Lower Upper
43 100
57 48.3 41.0 61.6

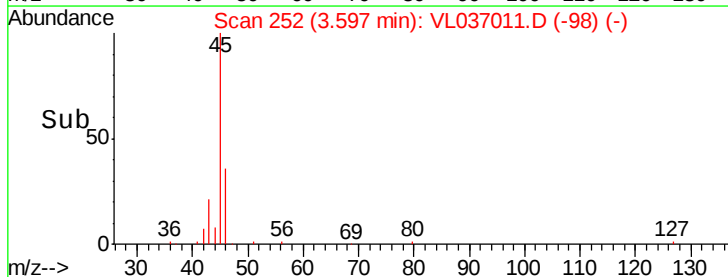
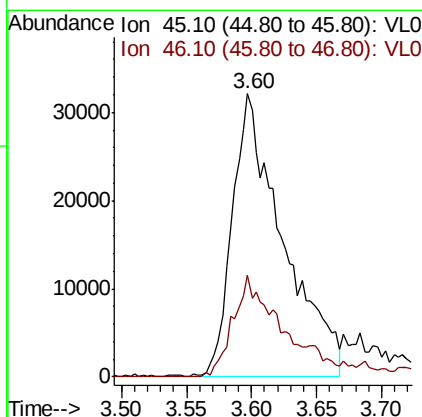
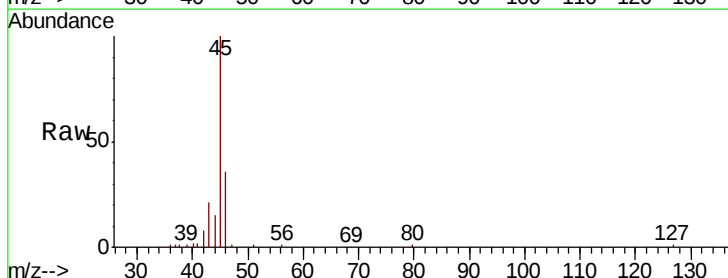
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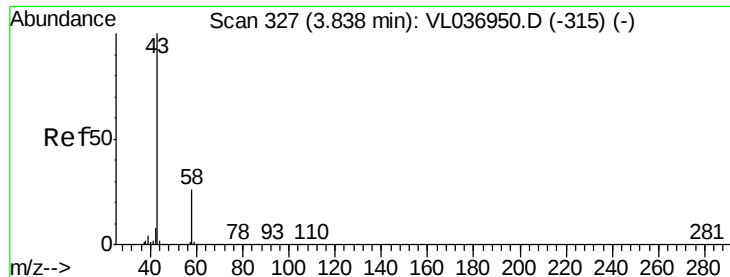
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#13
Ethanol
Concen: 9.988 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion: 45 Resp: 86687
Ion Ratio Lower Upper
45 100
46 41.0 16.3 65.3





#15

Acetone

Concen: 36.138 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.02 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

Tot Ion: 43 Resp: 3670504

Ion Ratio Lower Upper

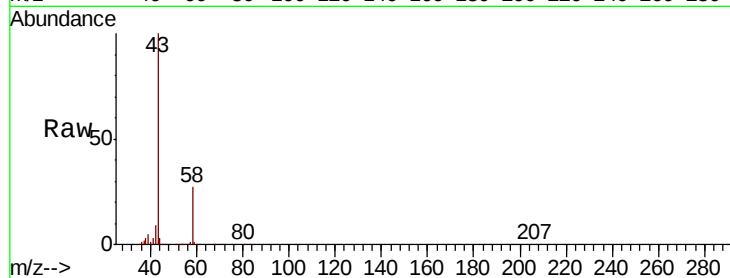
43 100

58 29.0 24.0 36.0

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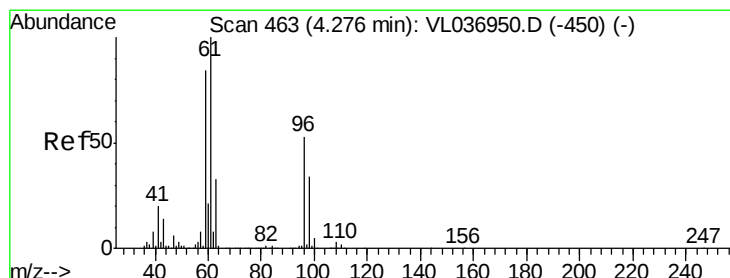
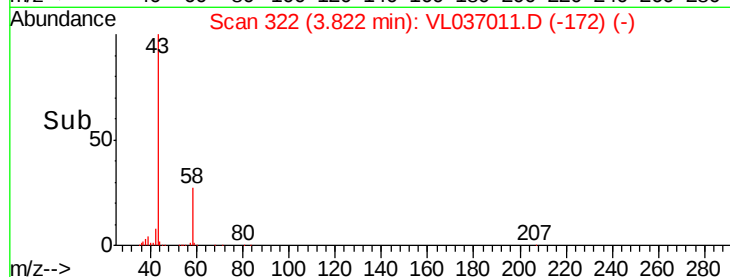
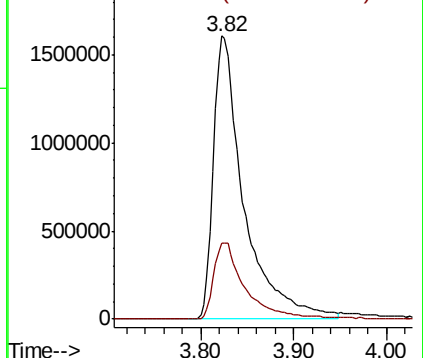
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.322 ppbv m

RT: 4.29 min Scan# 469

Delta R.T. 0.02 min

Lab File: VL037011.D

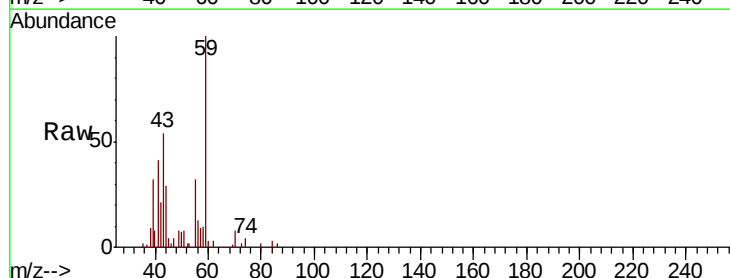
Acq: 20 May 2021 3:42

Tgt Ion: 59 Resp: 29921

Ion Ratio Lower Upper

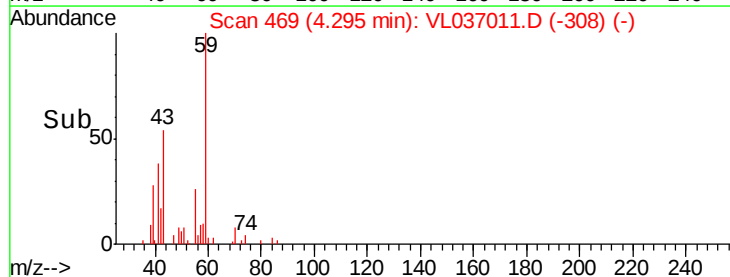
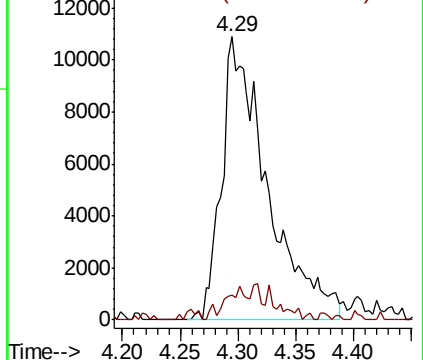
59 100

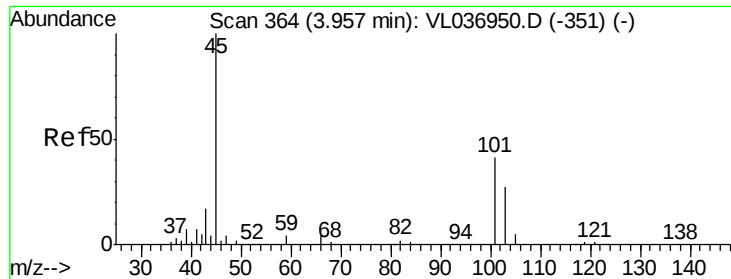
57 0.0 8.3 12.5#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





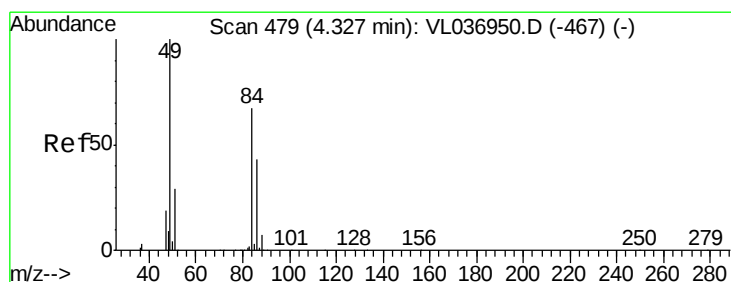
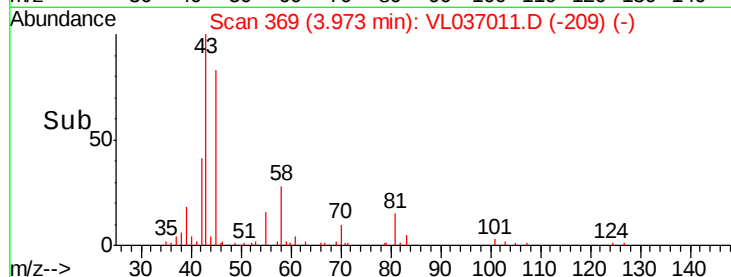
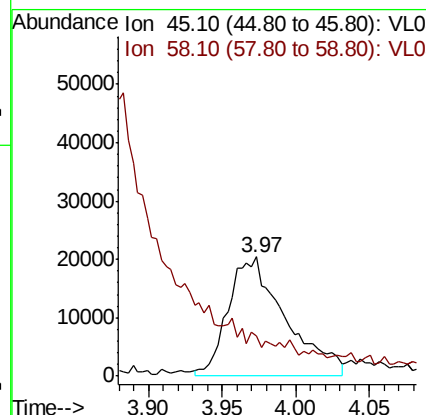
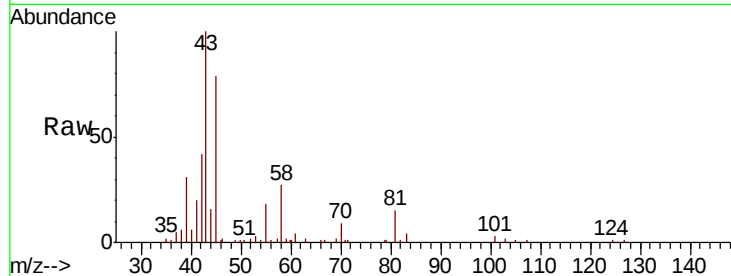
#19
Isopropyl Alcohol
Concen: 1.009 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Instrument :
MSVOA_L
ClientSampled :
KSV-05

Tot Ion: 45 Resp: 55113
Ion Ratio Lower Upper
45 100
58 0.0 37.2 55.8#

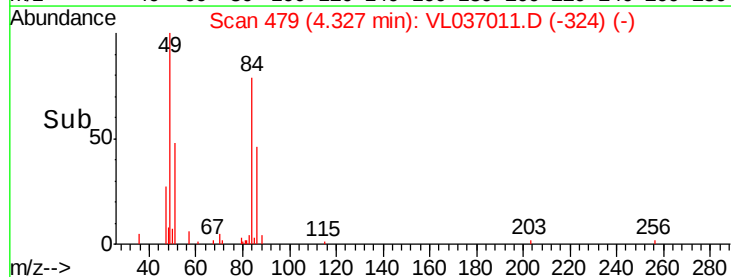
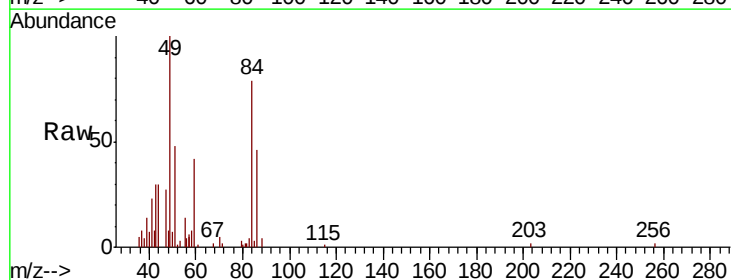
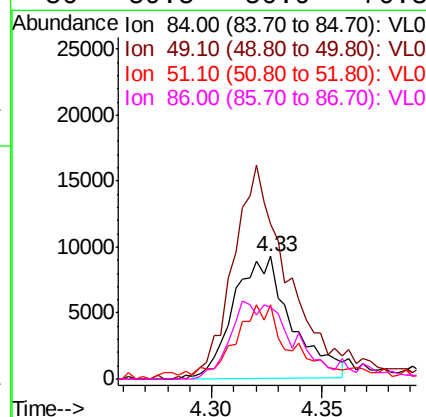
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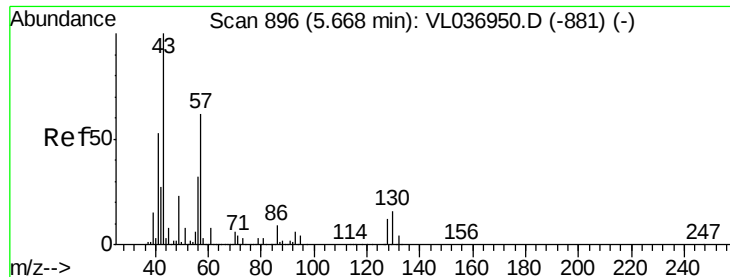
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#20
Methylene Chloride
Concen: 0.308 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion: 84 Resp: 16772
Ion Ratio Lower Upper
84 100
49 121.4 119.8 179.6
51 58.3 35.1 52.7#
86 59.5 50.9 76.3





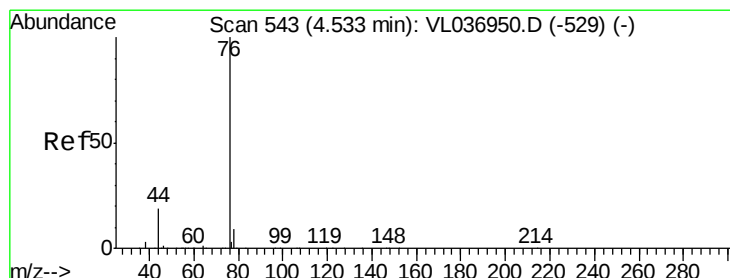
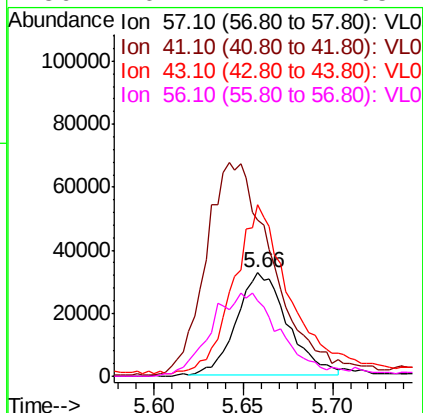
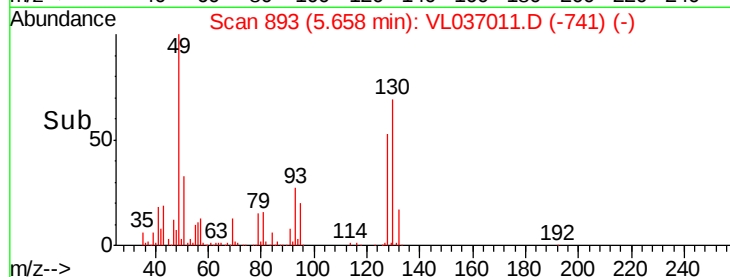
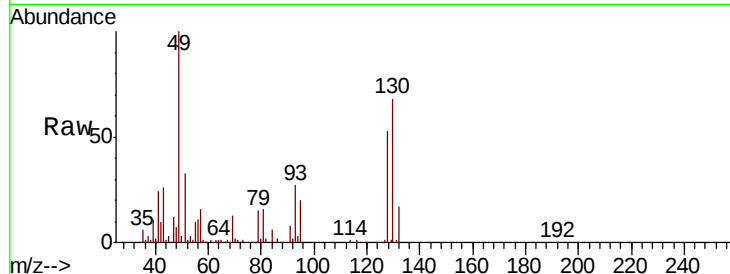
#26
Hexane
Concen: 0.528 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Tot Ion: 57 Resp: 65782
Ion Ratio Lower Upper
57 100
41 273.8 70.5 105.7#
43 187.6 165.8 248.8
56 116.2 42.2 63.4#

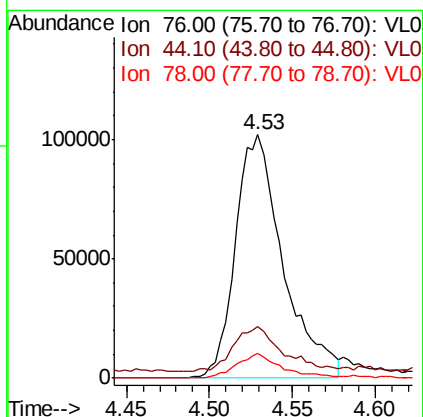
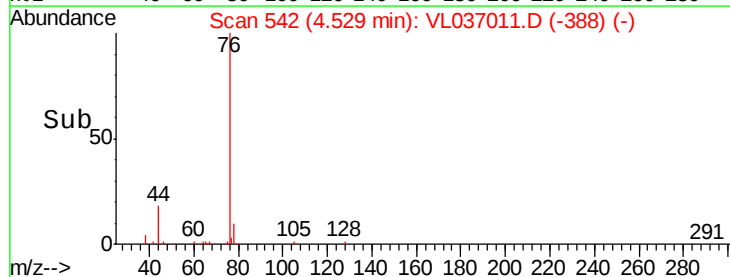
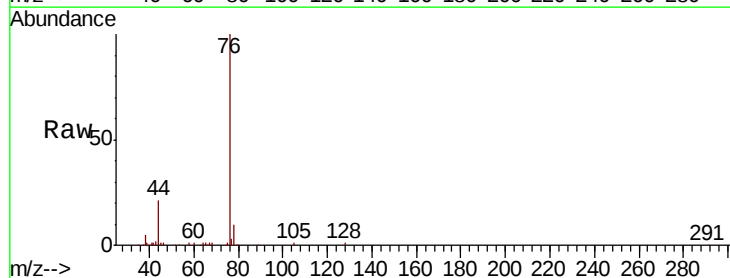
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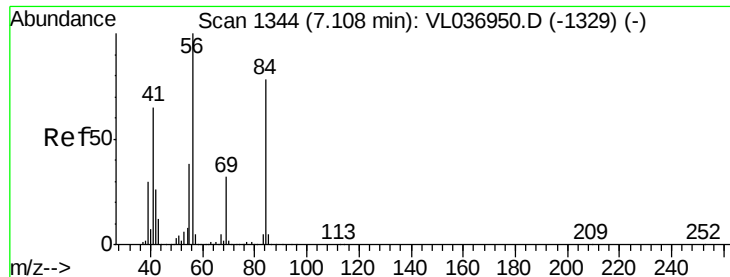
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#27
Carbon Disulfide
Concen: 1.626 ppbv
RT: 4.53 min Scan# 542
Delta R.T. -0.00 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion: 76 Resp: 204299
Ion Ratio Lower Upper
76 100
44 21.3 15.5 23.3
78 10.3 7.8 11.6





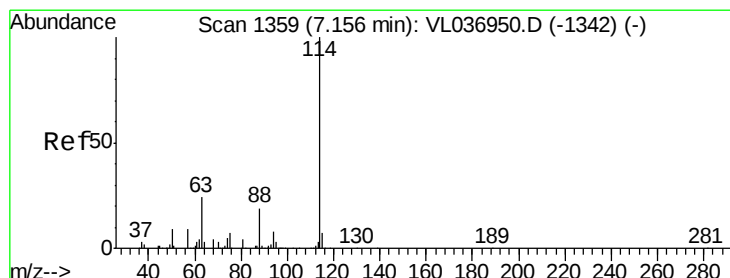
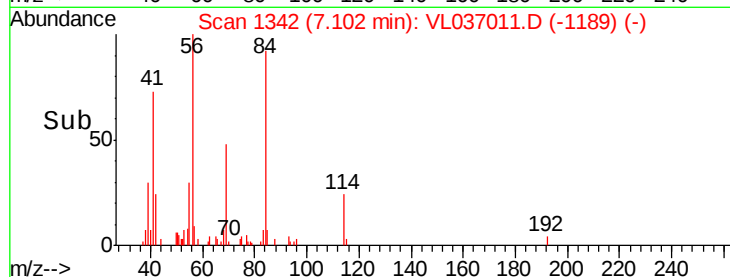
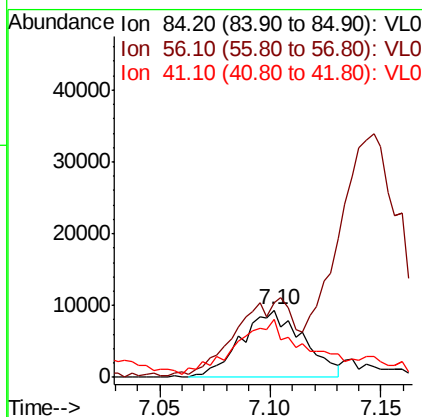
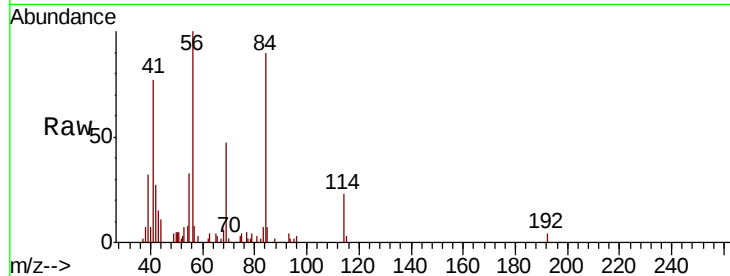
#30
Cvclohexane
Concen: 0.173 ppbv
RT: 7.10 min Scan# 1342
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.9	161.9#
41	119.8	65.5	98.3#

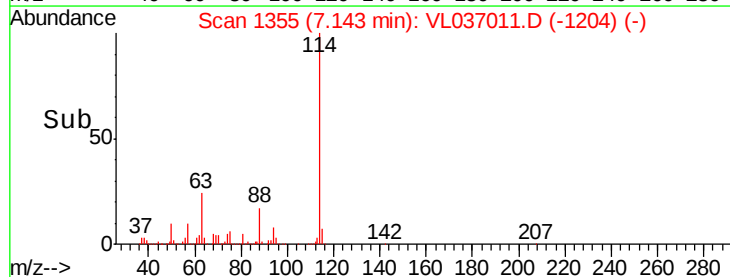
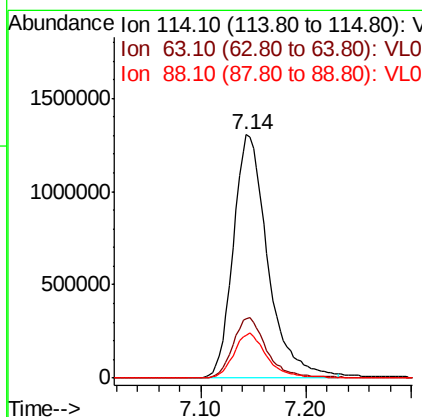
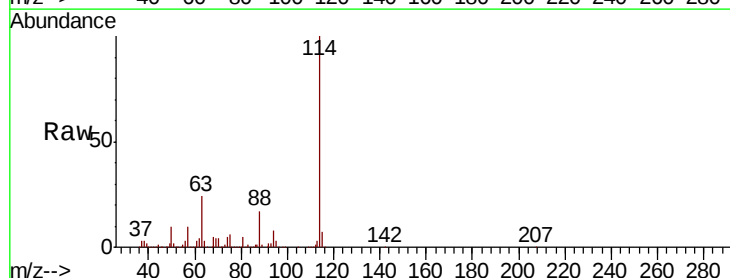
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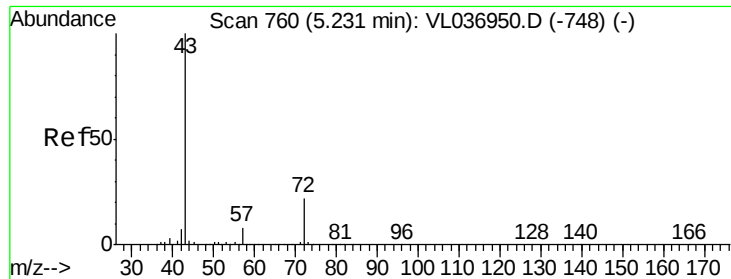
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.6	29.4
88	18.0	14.6	21.8





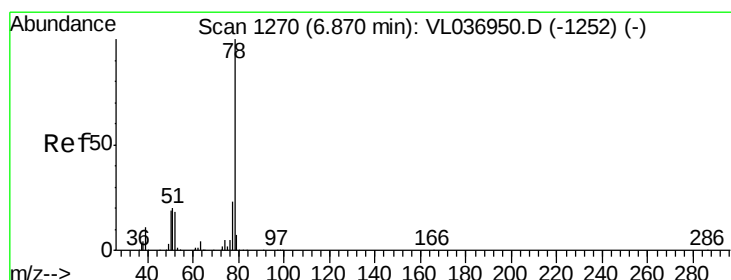
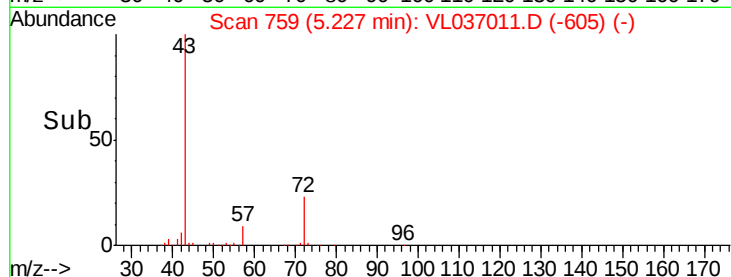
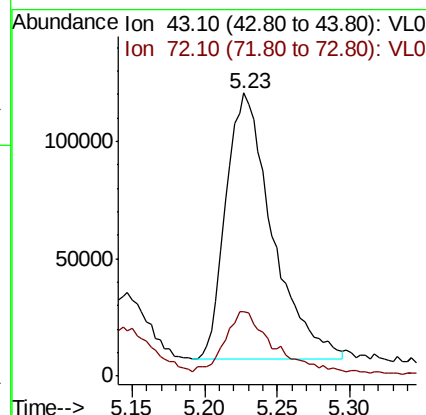
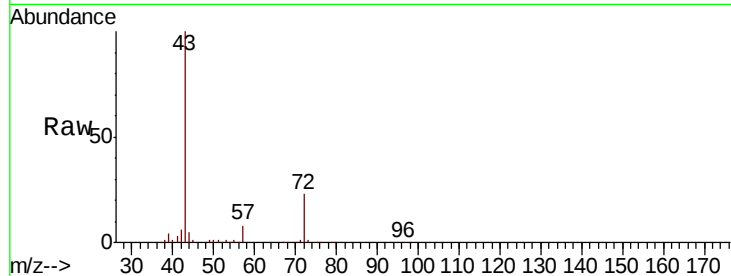
#34
2-Butanone
Concen: 2.339 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Instrument :
MSVOA_L
ClientSampled :
KSV-05

Tot Ion	Ratio	Lower	Upper
43	100		
72	28.5	19.0	28.4#

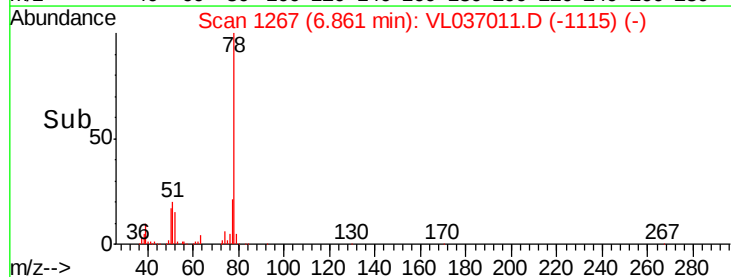
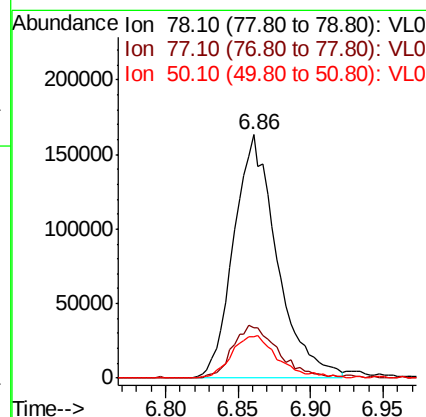
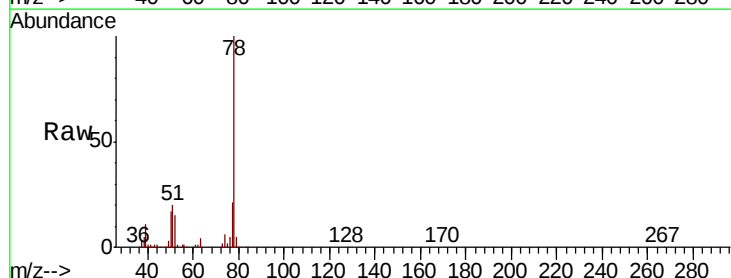
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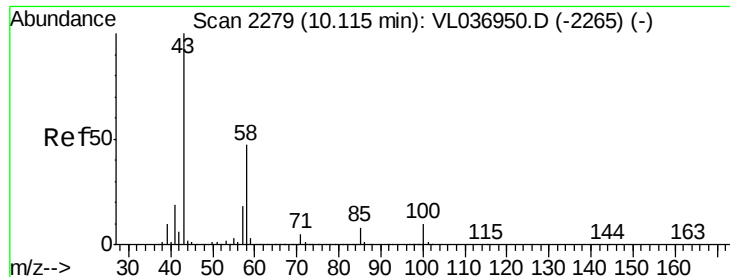
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#36
Benzene
Concen: 1.323 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.6	28.0
50	17.0	15.0	22.4





#51

2-Hexanone

Concen: 0.380 ppbv

RT: 10.13 min Scan# 2284

Delta R.T. 0.02 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

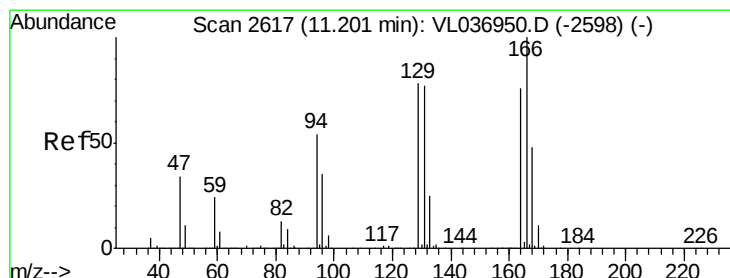
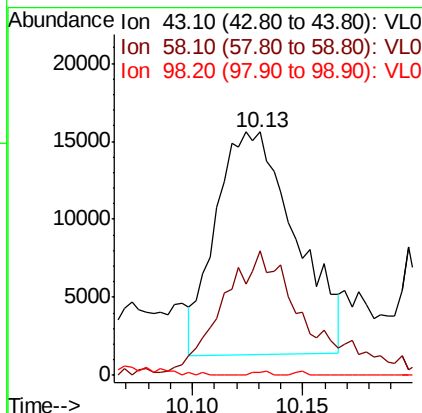
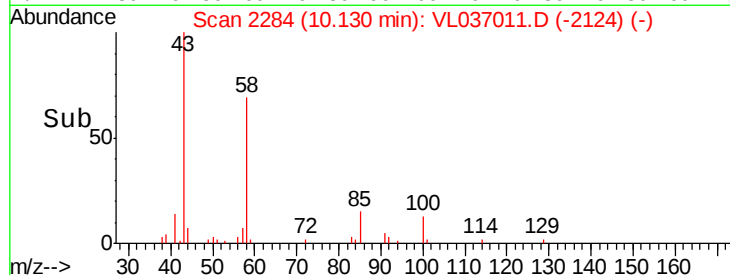
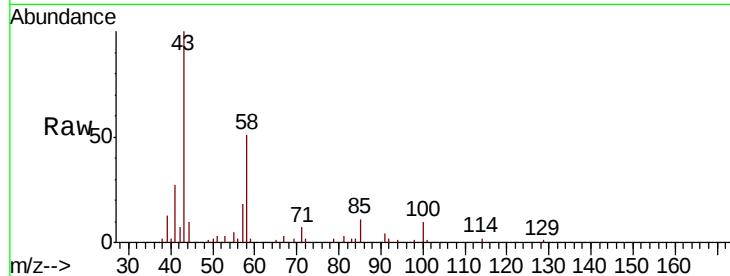
ClientSampled :

KSV-05

Tot Ion:	43	Resp:	35816
Ion Ratio	Lower	Upper	
43	100		
58	59.6	41.1	61.7
98	0.3	0.1	0.1#

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5/24/2021 3:02:35 PM



#52

Tetrachloroethene

Concen: 0.032 ppbv m

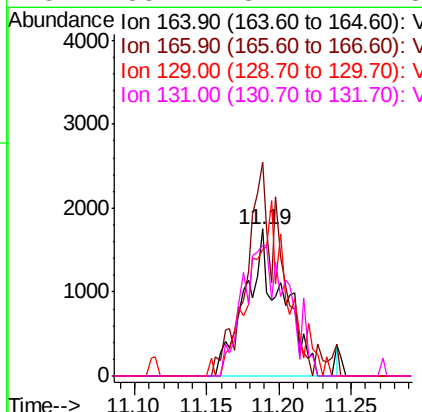
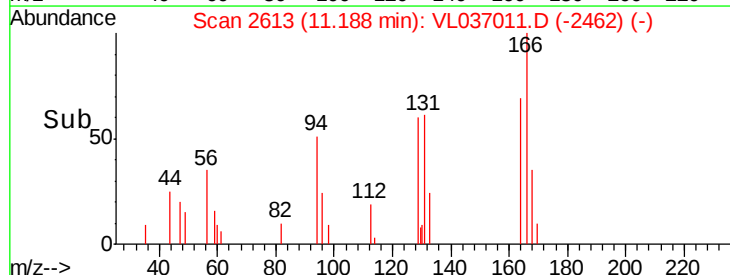
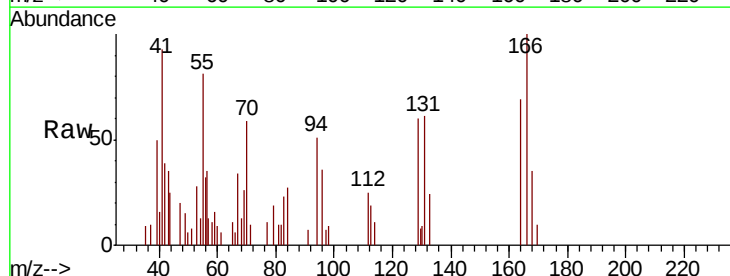
RT: 11.19 min Scan# 2613

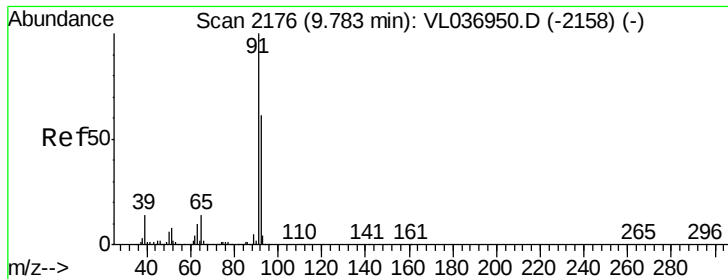
Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Tgt Ion:	164	Resp:	3213
Ion Ratio	Lower	Upper	
164	100		
166	145.2	105.5	158.3
129	86.5	81.8	122.8
131	88.4	81.2	121.8





#53

Toluene

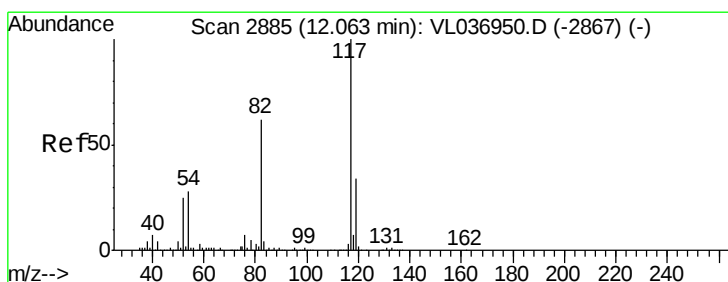
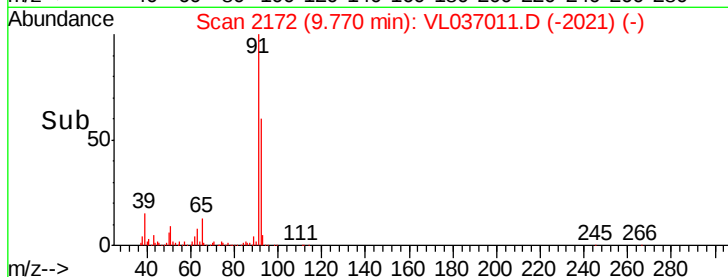
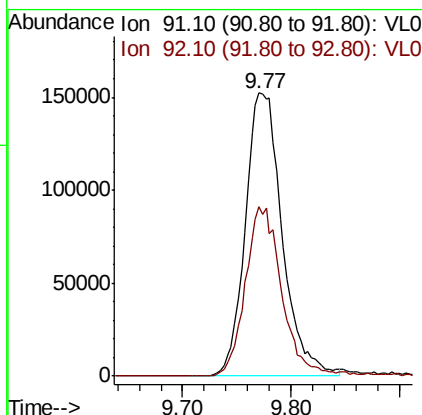
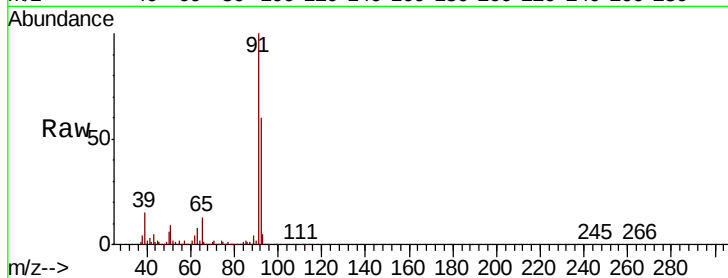
Concen: 1.180 ppbv m
RT: 9.77 min Scan# 2172
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Instrument :
MSVOA_L
ClientSampleId :
KSV-05

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.8	49.5	74.3

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5/24/2021 3:02:35 PM

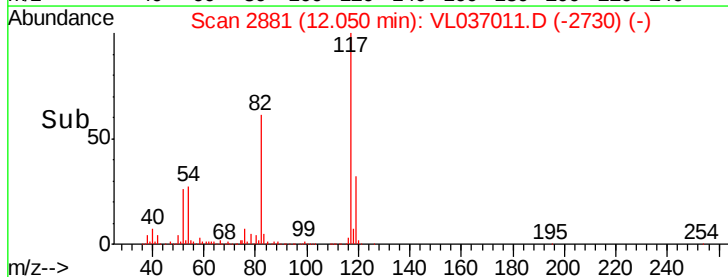
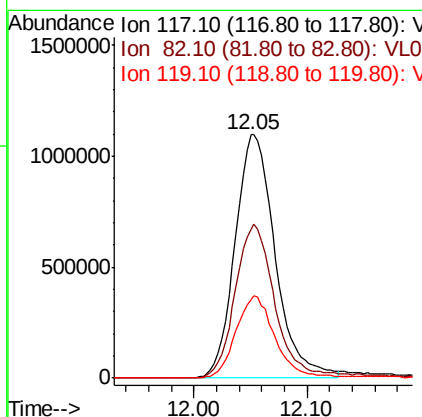
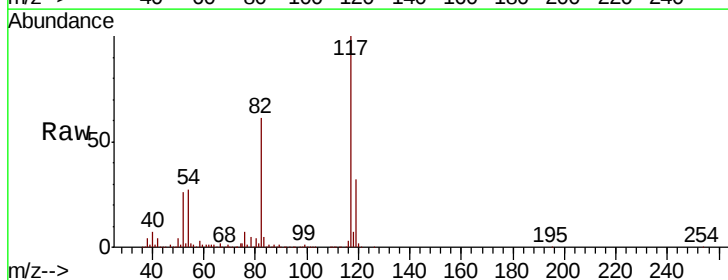


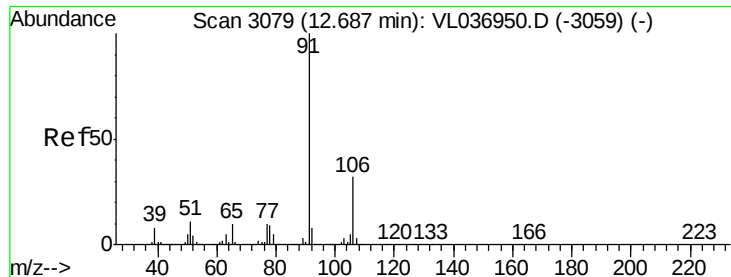
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.05 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL037011.D
Acq: 20 May 2021 3:42

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.2	52.6	79.0
119	34.0	46.6	70.0#





#58

Ethyl Benzene

Concen: 0.118 ppbv m

RT: 12.68 min Scan# 3077

Delta R.T. -0.01 min

Lab File: VL037011.D

Acq: 20 May 2021 3:42

Instrument :

MSVOA_L

ClientSampleId :

KSV-05

Tot Ion: 91 Resp: 45121

Ion Ratio Lower Upper

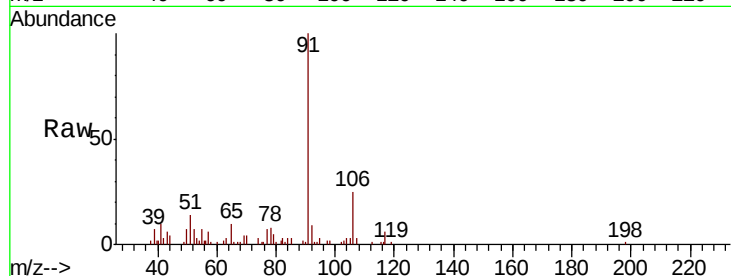
91 100

106 25.5 25.6 38.4#

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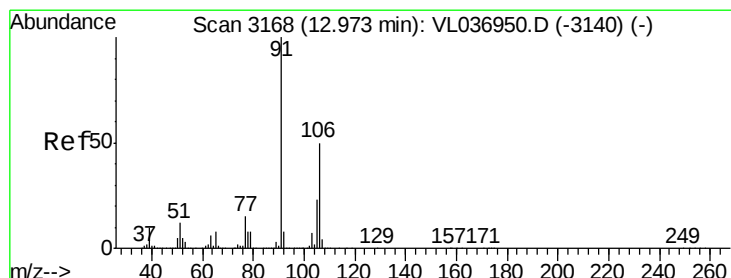
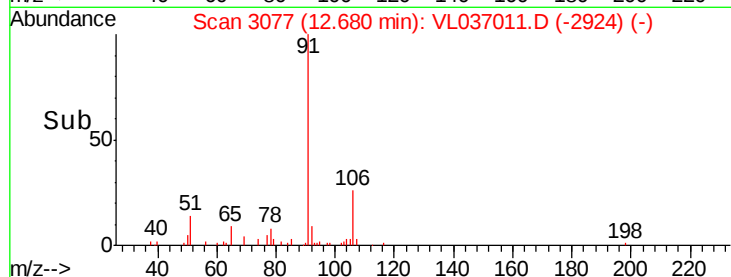
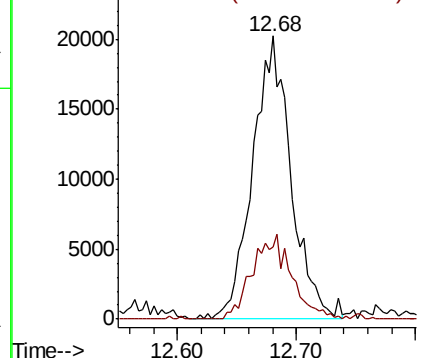
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5/24/2021 3:02:35 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.138 ppbv m

RT: 12.95 min Scan# 3160

Delta R.T. -0.03 min

Lab File: VL037011.D

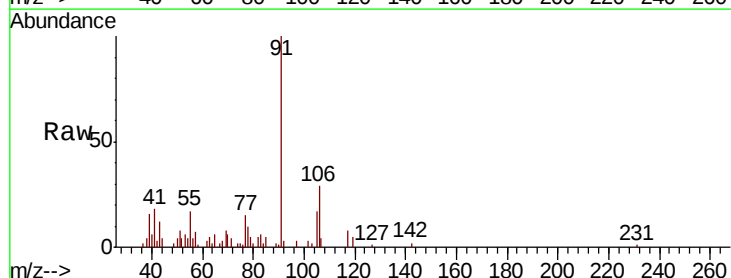
Acq: 20 May 2021 3:42

Tgt Ion: 91 Resp: 43782

Ion Ratio Lower Upper

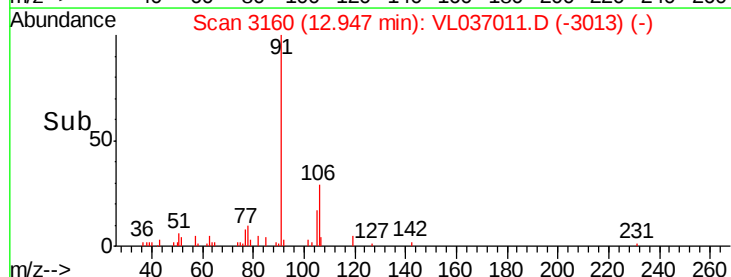
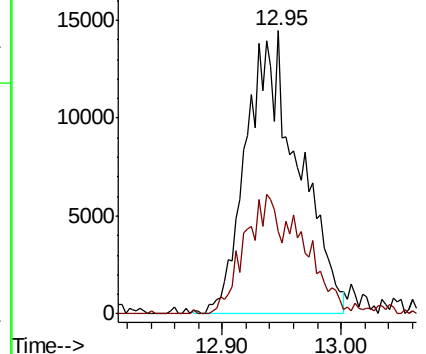
91 100

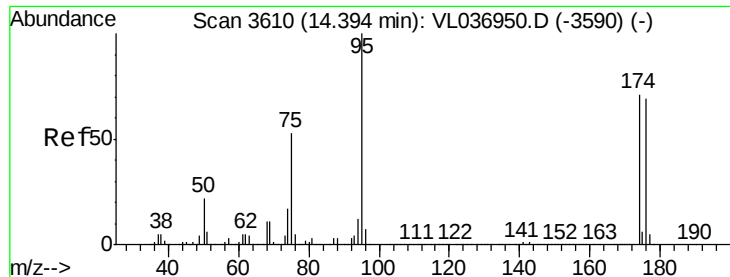
106 0.0 37.4 56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





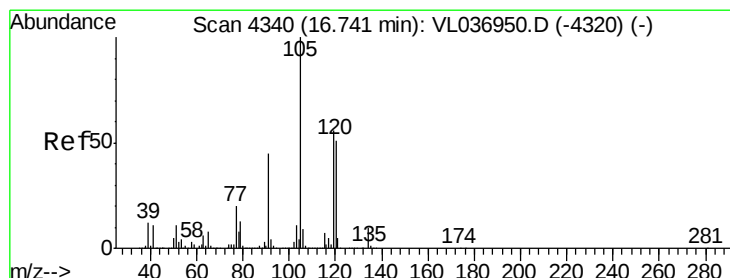
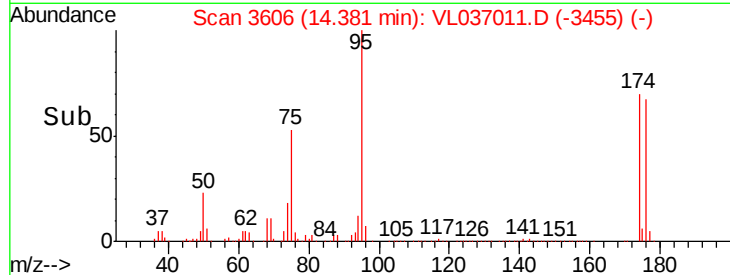
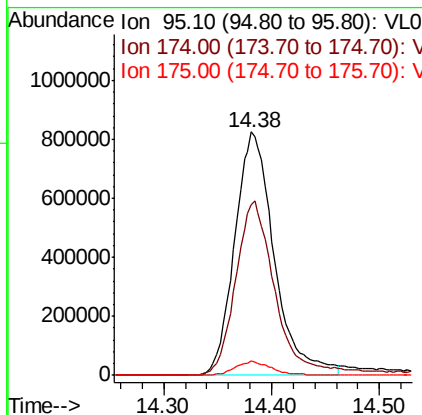
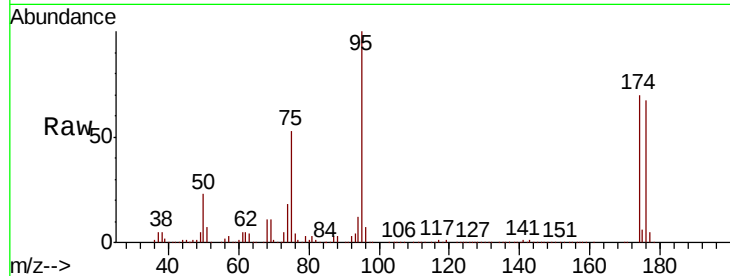
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.275 ppbv
 RT: 14.38 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL037011.D
 Acq: 20 May 2021 3:42

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-05

Tot Ion: 95 Resp: 2094896
 Ion Ratio Lower Upper
 95 100
 174 75.1 58.4 87.6
 175 5.4 4.4 6.6

Manual Integrations
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 5/24/2021 3:02:35 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.106 ppbv m
 RT: 16.73 min Scan# 4336
 Delta R.T. -0.01 min
 Lab File: VL037011.D
 Acq: 20 May 2021 3:42

Tgt Ion: 105 Resp: 36748
 Ion Ratio Lower Upper
 105 100
 120 41.4 40.6 61.0
 91 13.3 37.4 56.0#
 77 19.4 16.2 24.4

