

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
 Data File : VL032573.D
 Acq On : 28 Sep 2018 6:42
 Operator : SY/AP
 Sample : J5094-06
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KIA-1

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:58 AM

Quant Time: Sep 28 07:16:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 28
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1374357	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3049116	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3277011	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.62	95	2393316	9.68	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	41190	0.324	ppbv	99
3) Chlorodifluoromethane	3.03	51	20802612	182.014	ppbv #	75
4) Chloromethane	3.19	50	45968	0.690	ppbv	97
9) Propene	3.07	41	267578m	5.396	ppbv	
10) Heptane	8.27	43	23219m	0.128	ppbv	
11) Trichlorofluoromethane	4.03	101	45448	0.301	ppbv	92
13) Ethanol	3.74	45	40436489m	2712.858	ppbv	
15) Acetone	3.92	43	11097349	91.989	ppbv	91
19) Isopropyl Alcohol	4.16	45	3912170	46.557	ppbv #	93
20) Methylene Chloride	4.44	84	28295	0.484	ppbv #	82
26) Hexane	5.81	57	118588	0.897	ppbv #	1
27) Carbon Disulfide	4.65	76	38273m	0.269	ppbv	
29) Chloroform	5.88	83	23119m	0.114	ppbv	
34) 2-Butanone	5.36	43	432083	2.380	ppbv	99
35) Carbon Tetrachloride	7.18	117	15172m	0.072	ppbv	
36) Benzene	7.04	78	78776	0.320	ppbv	95
37) 1,2-Dichloroethane	6.45	62	32148m	0.216	ppbv	
44) 2,2,4-Trimethylpentane	8.03	57	52515m	0.109	ppbv	
52) Tetrachloroethene	11.41	164	41850m	0.488	ppbv	
53) Toluene	9.98	91	775814	2.584	ppbv	98
58) Ethyl Benzene	12.90	91	46303m	0.116	ppbv	
59) m/p-Xylene	13.15	91	182715	0.517	ppbv	98
60) o-Xylene	13.88	91	77078	0.224	ppbv	98
61) Styrene	13.73	104	25706m	0.114	ppbv	
64) n-propylbenzene	15.76	120	24684	0.197	ppbv	78
69) p-Isopropyltoluene	17.85	119	91731	0.191	ppbv	97
72) 4-Ethyltoluene	16.04	105	174471	0.467	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.20	105	267036	0.735	ppbv	91
74) 1,2,4-Trimethylbenzene	16.96	105	910440	2.328	ppbv #	70
79) Naphthalene	22.45	128	37414m	0.133	ppbv	

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

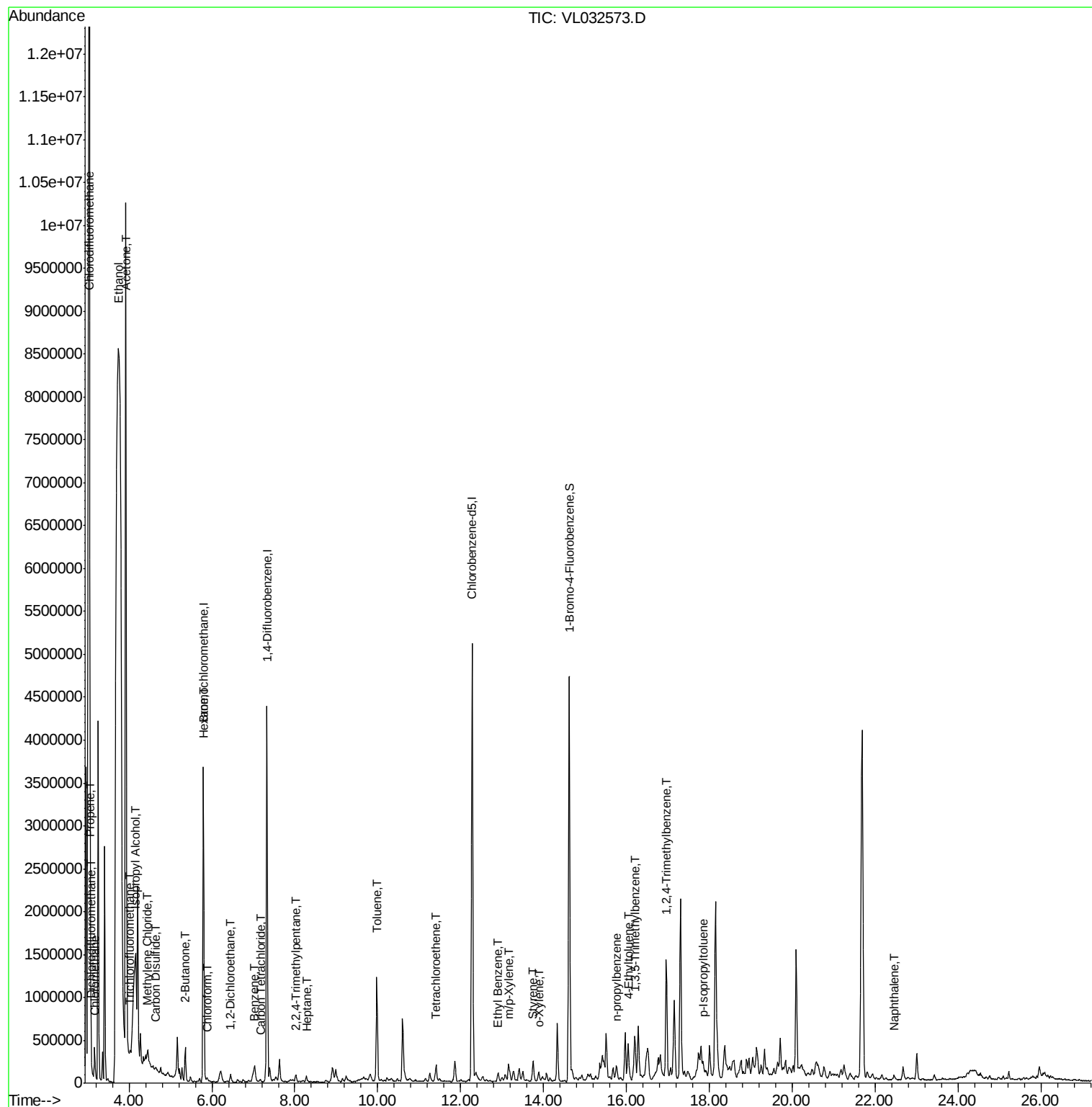
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
Data File : VL032573.D
Acq On : 28 Sep 2018 6:42
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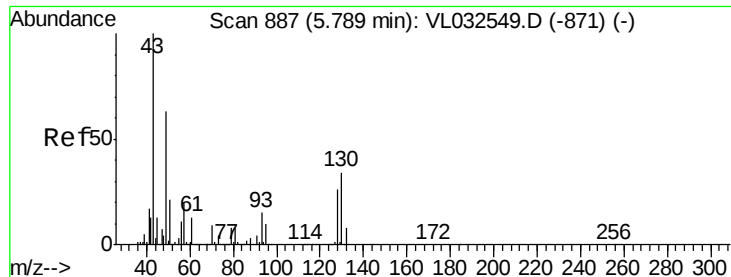
Instrument :
MSVOA_L
ClientSampleId :
KIA-1

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10/1/2018 11:57:58 AM

Quant Time: Sep 28 07:16:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Instrument :

MSVOA_L

ClientSampled :

KIA-1

Tgt Ion: 49 Resp: 1374357

Ion Ratio Lower Upper

49 100

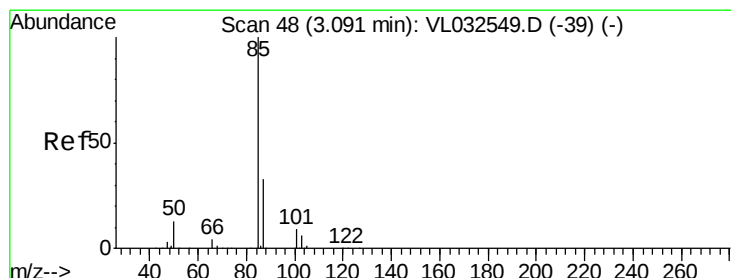
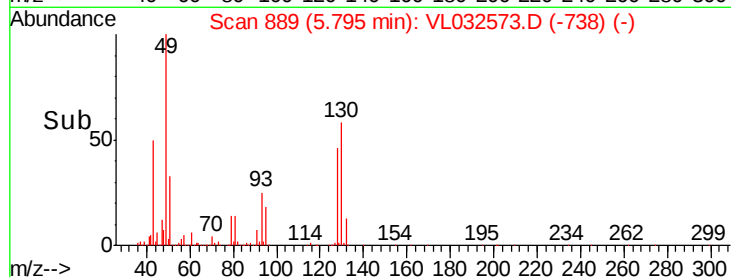
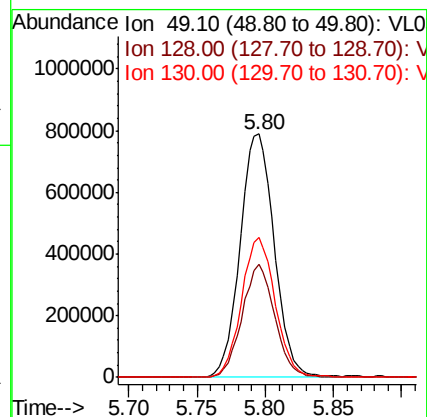
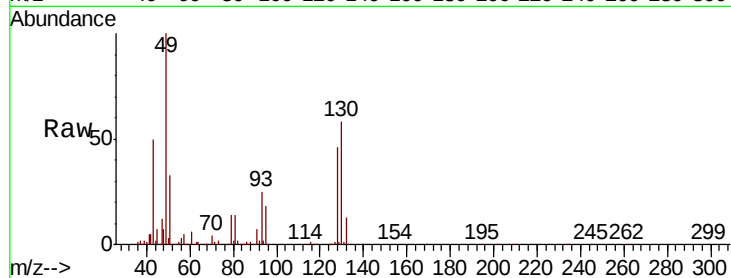
128 44.5 20.7 62.1

130 56.8 26.6 79.7

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#2

Dichlorodifluoromethane

Concen: 0.324 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032573.D

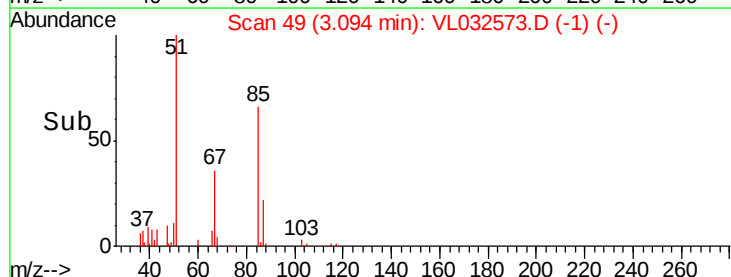
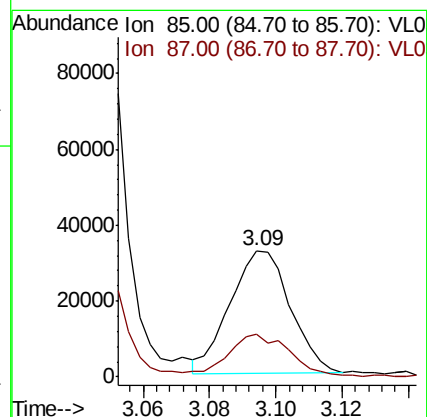
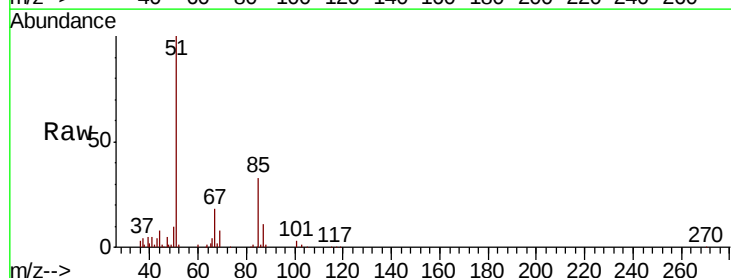
Acq: 28 Sep 2018 6:42

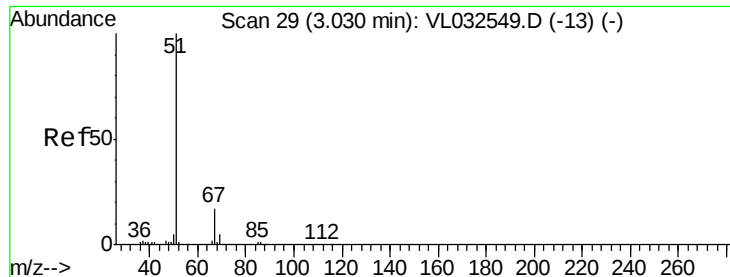
Tgt Ion: 85 Resp: 41190

Ion Ratio Lower Upper

85 100

87 32.5 26.2 39.4





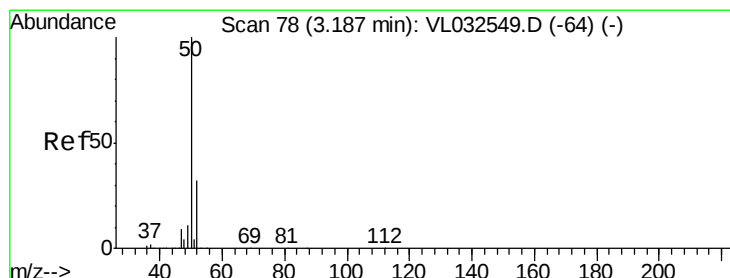
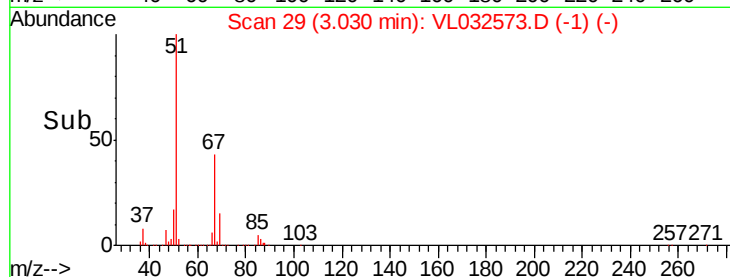
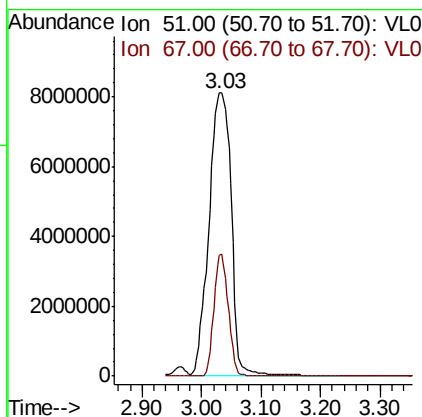
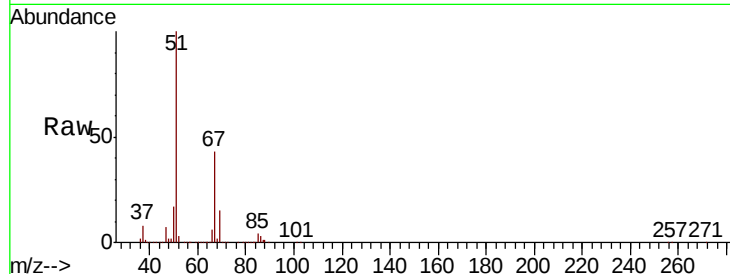
#3
Chlorodifluoromethane
Concen: 182.014 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
KIA-1

Tgt Ion: 51 Resp:20802612
Ion Ratio Lower Upper
51 100
67 28.3 13.8 20.8#

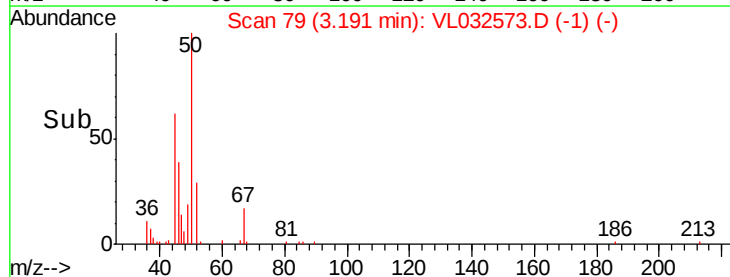
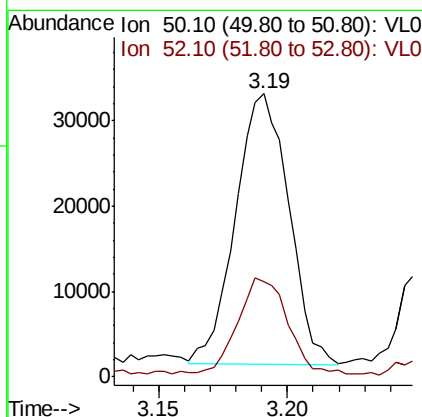
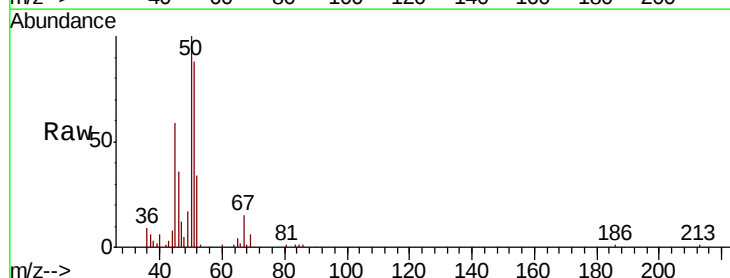
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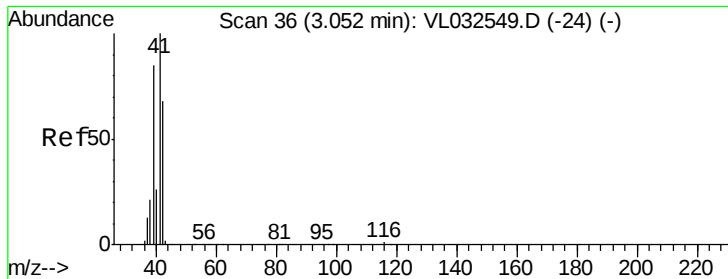
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#4
Chloromethane
Concen: 0.690 ppbv
RT: 3.19 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Tgt Ion: 50 Resp: 45968
Ion Ratio Lower Upper
50 100
52 33.7 25.6 38.4





#9

Propene

Concen: 5.396 ppbv m

RT: 3.07 min Scan# 41

Delta R.T. 0.00 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Instrument :

MSVOA_L

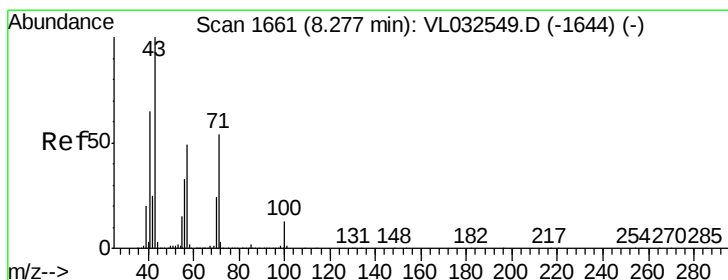
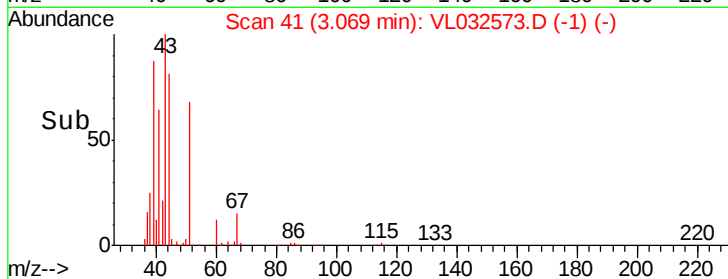
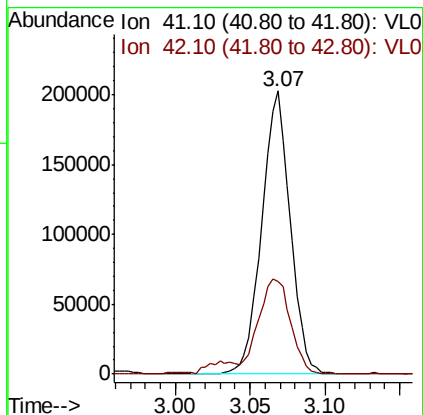
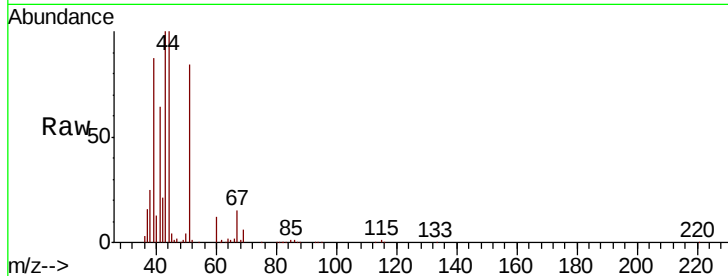
ClientSampled :

KIA-1

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Tgt Ion: 41 Resp: 267578
Ion Ratio Lower Upper
41 100
42 285.9 56.6 84.8#



#10

Heptane

Concen: 0.128 ppbv m

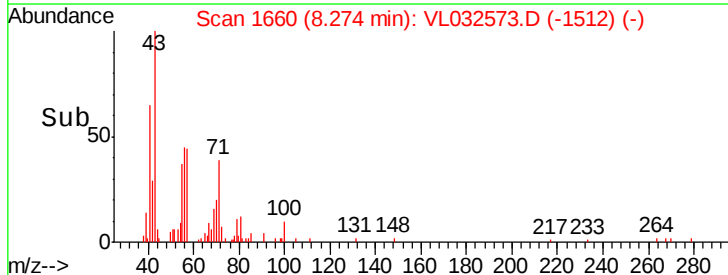
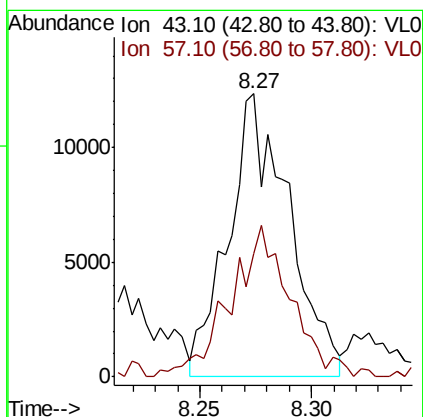
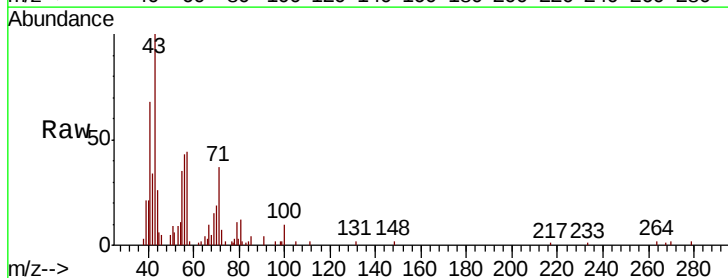
RT: 8.27 min Scan# 1660

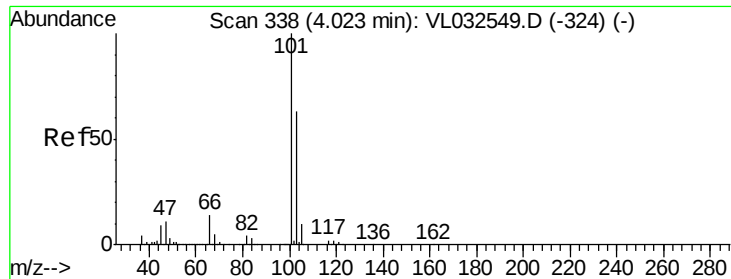
Delta R.T. -0.02 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Tgt Ion: 43 Resp: 23219
Ion Ratio Lower Upper
43 100
57 55.0 39.6 59.4





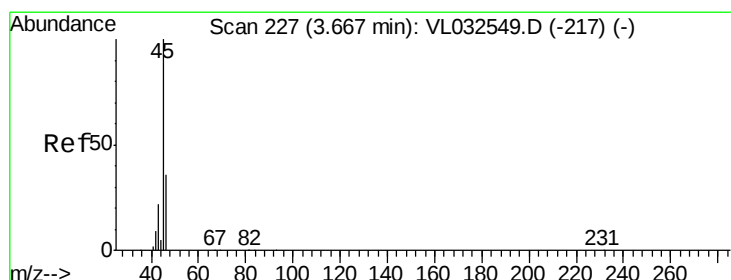
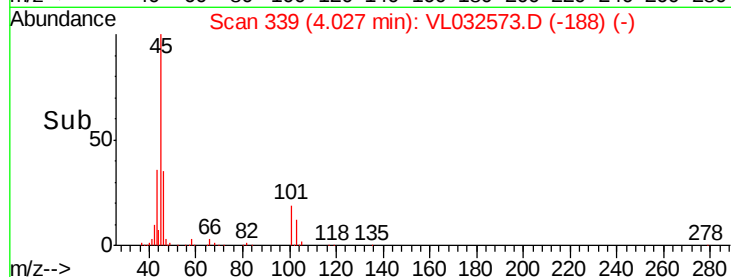
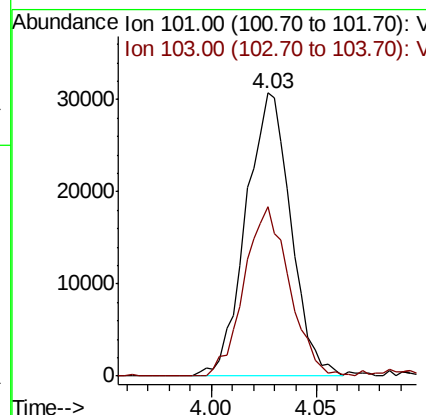
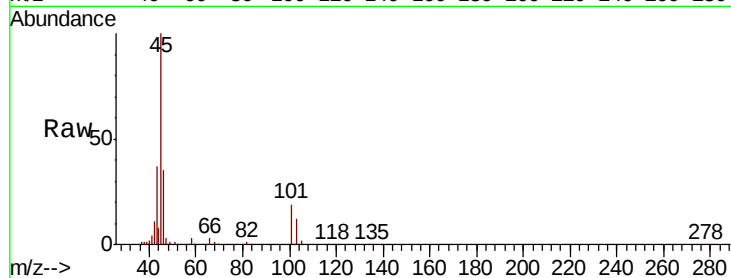
#11
 Trichlorofluoromethane
 Concen: 0.301 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. -0.01 min
 Lab File: VL032573.D
 Acq: 28 Sep 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 KIA-1

Tgt Ion: 101 Resp: 45448
 Ion Ratio Lower Upper
 101 100
 103 59.7 52.8 79.2

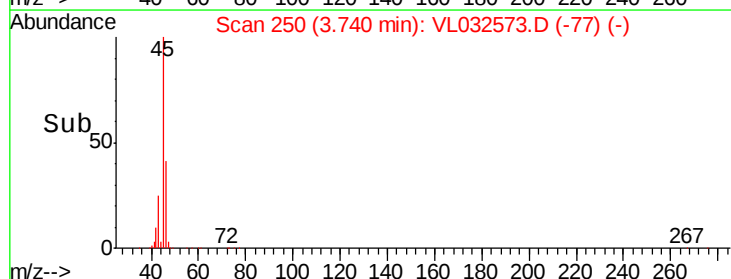
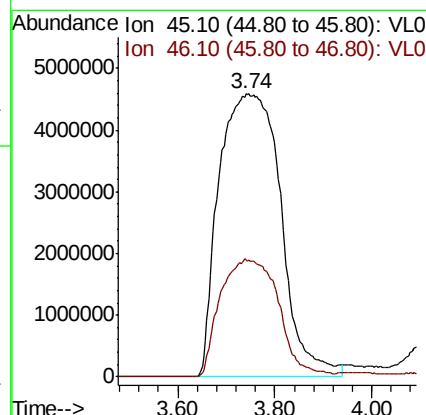
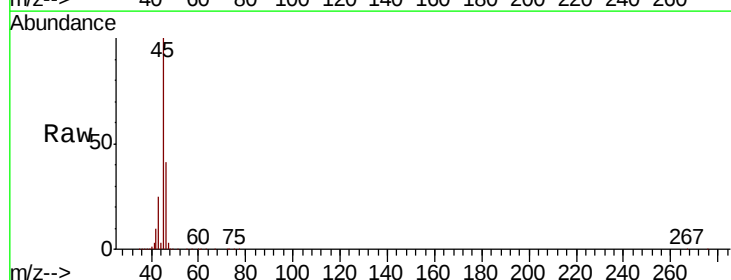
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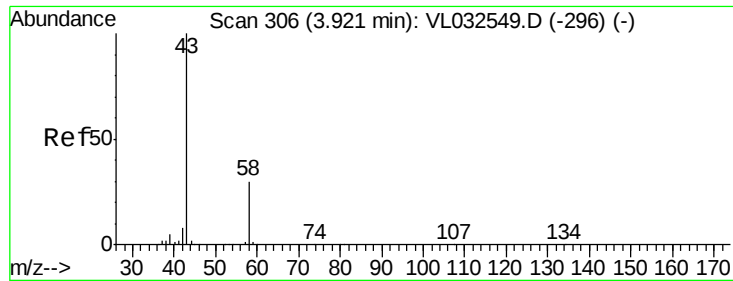
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#13
 Ethanol
 Concen: 2712.858 ppbv m
 RT: 3.74 min Scan# 250
 Delta R.T. 0.06 min
 Lab File: VL032573.D
 Acq: 28 Sep 2018 6:42

Tgt Ion: 45 Resp: 40436489
 Ion Ratio Lower Upper
 45 100
 46 39.3 14.2 56.8





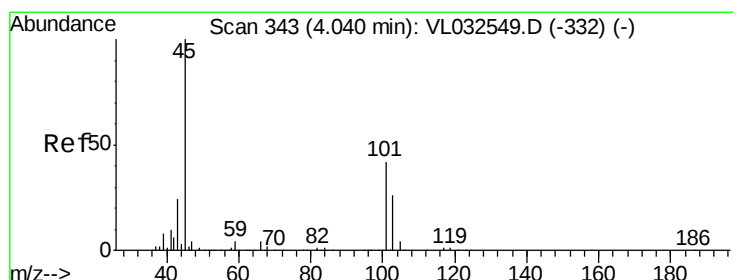
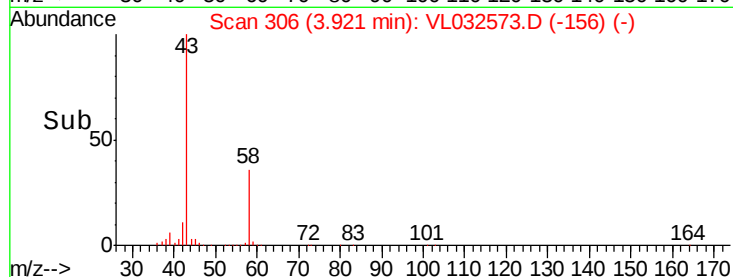
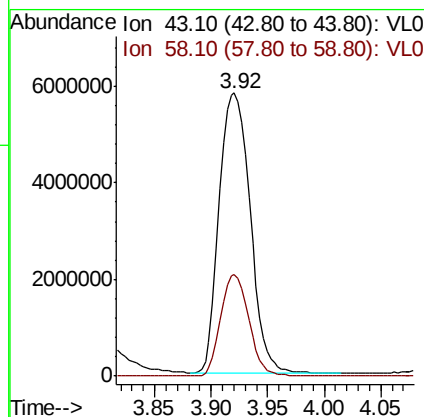
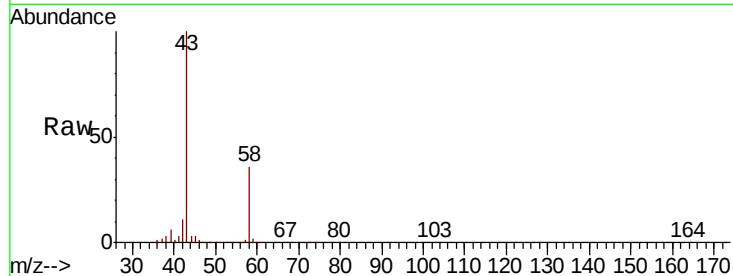
#15
Acetone
Concen: 91.989 ppbv
RT: 3.92 min Scan# 306
Delta R.T. -0.02 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
KIA-1

Tgt Ion: 43 Resp:11097349
Ion Ratio Lower Upper
43 100
58 33.2 22.6 33.8

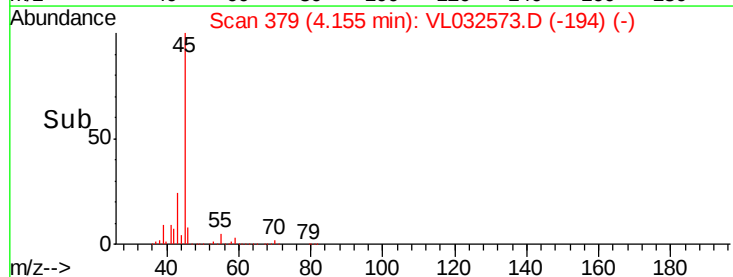
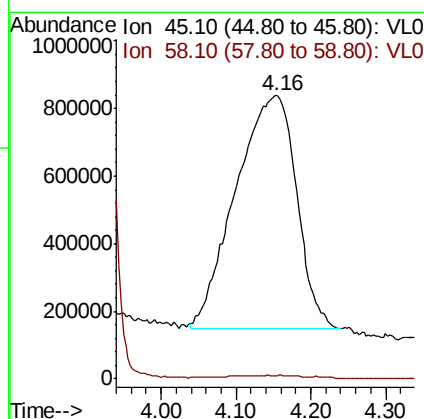
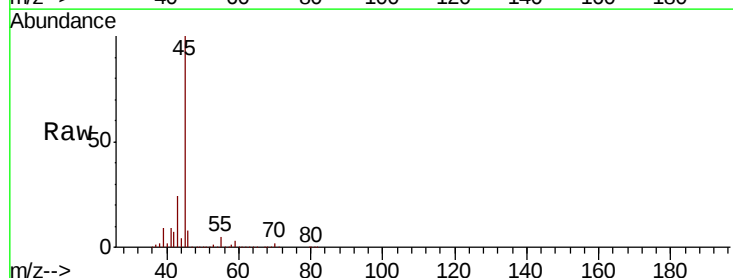
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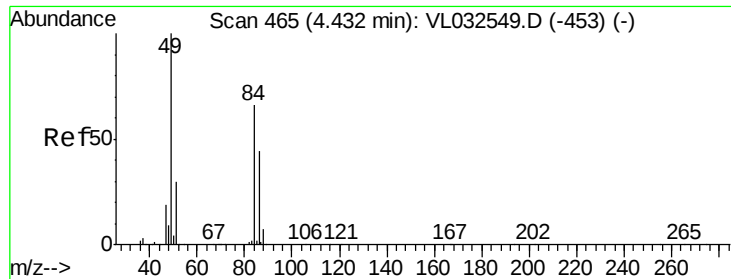
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#19
Isopropyl Alcohol
Concen: 46.557 ppbv
RT: 4.16 min Scan# 379
Delta R.T. 0.09 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Tgt Ion: 45 Resp: 3912170
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#





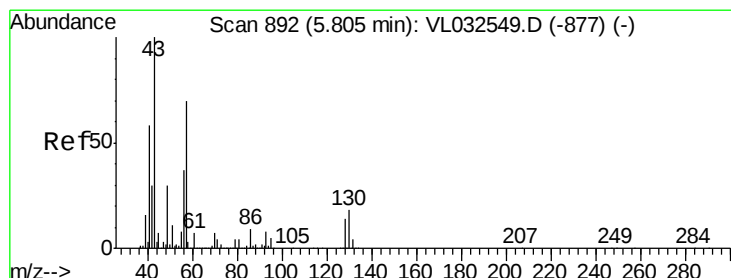
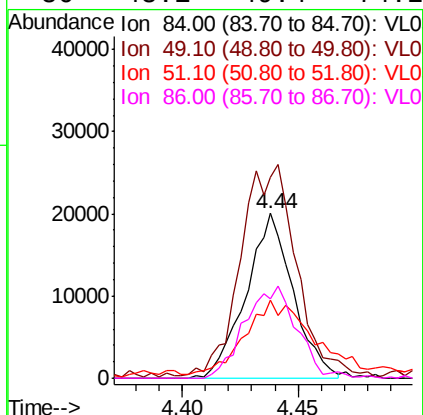
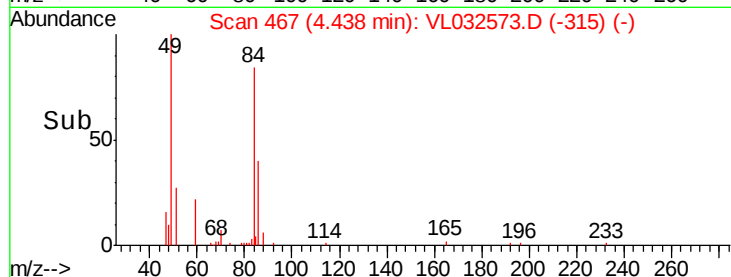
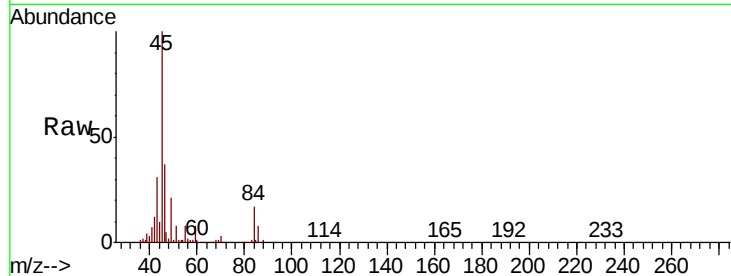
#20
Methylene Chloride
Concen: 0.484 ppbv
RT: 4.44 min Scan# 467
Delta R.T. -0.01 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
KIA-1

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.9	119.1	178.7#
51	44.4	35.2	52.8
86	48.1	49.4	74.2#

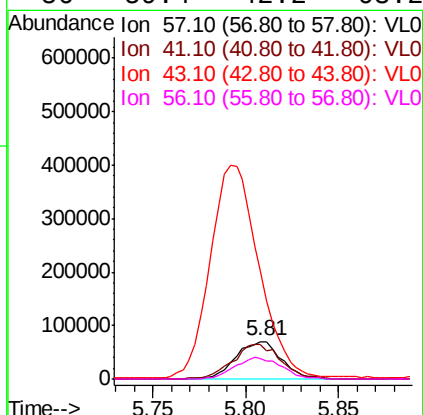
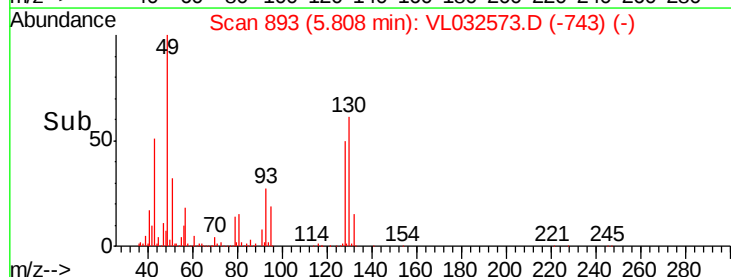
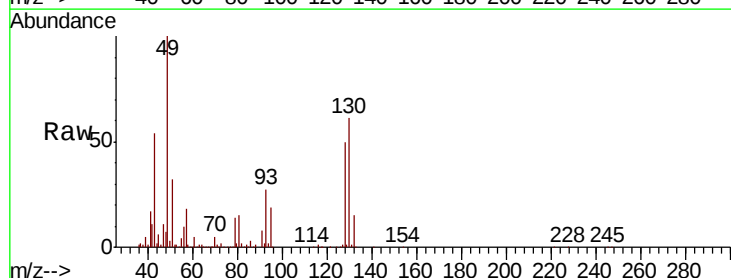
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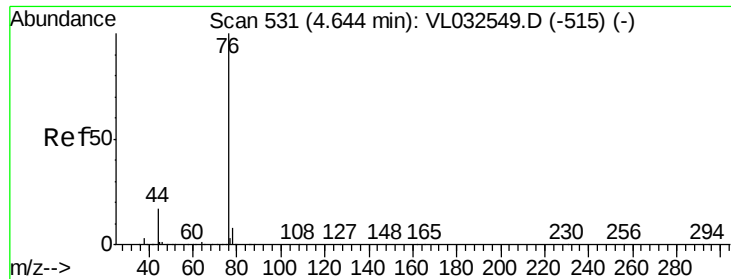
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#26
Hexane
Concen: 0.897 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	98.8	69.0	103.4
43	621.1	172.1	258.1#
56	59.4	42.2	63.2





#27

Carbon Disulfide

Concen: 0.269 ppbv m

RT: 4.65 min Scan# 533

Delta R.T. -0.01 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Instrument :

MSVOA_L

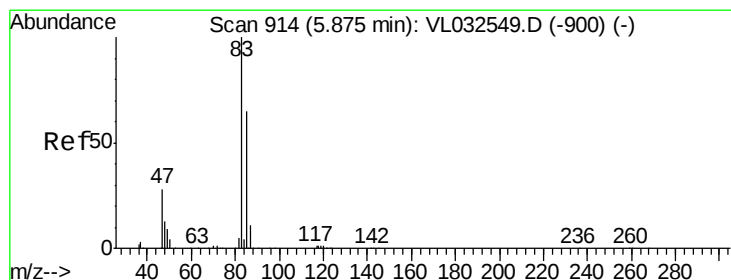
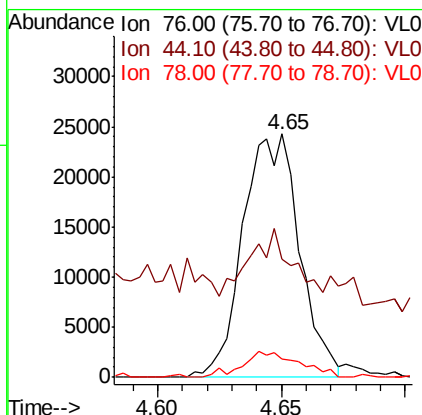
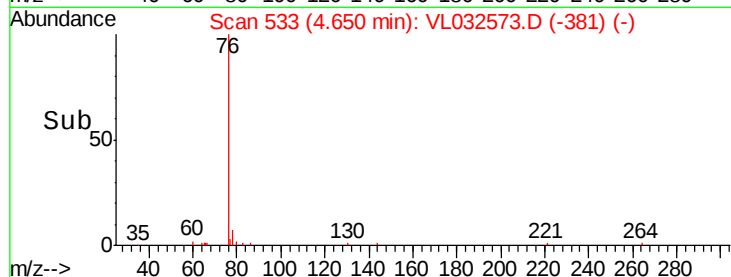
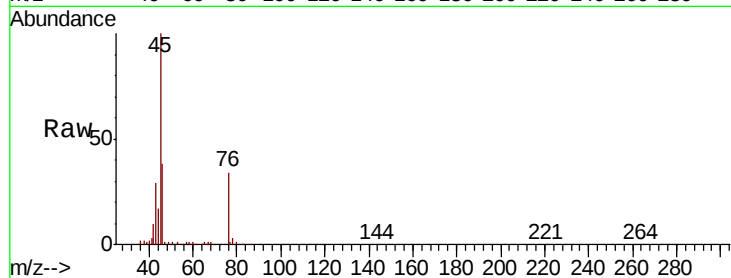
ClientSampleId :

KIA-1

Tgt Ion:	76	Resp:	38273
Ion Ratio	Lower	Upper	
76	100		
44	31.2	14.0	21.0#
78	0.0	7.5	11.3#

Manual Integrations
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#29

Chloroform

Concen: 0.114 ppbv m

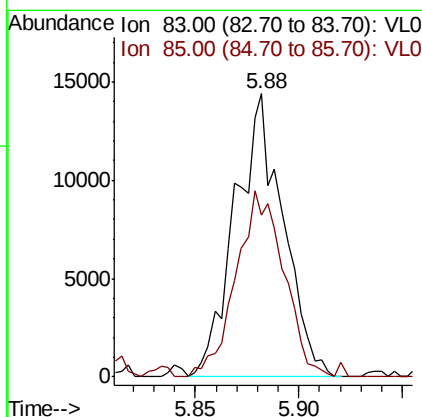
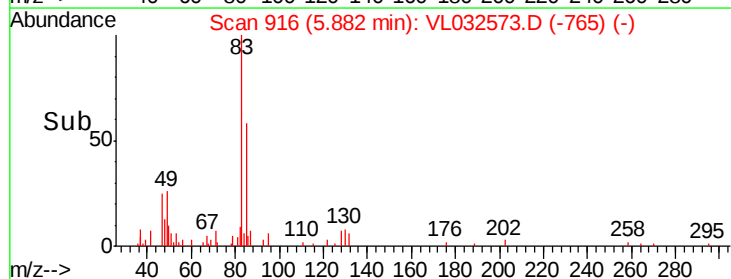
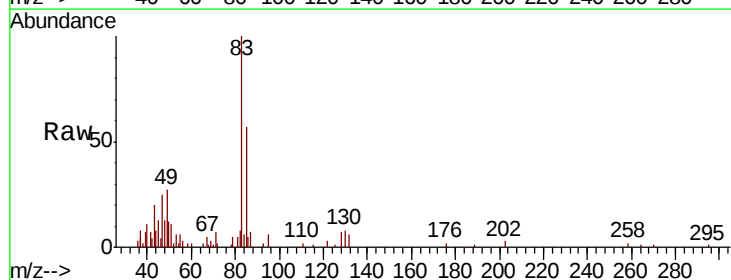
RT: 5.88 min Scan# 916

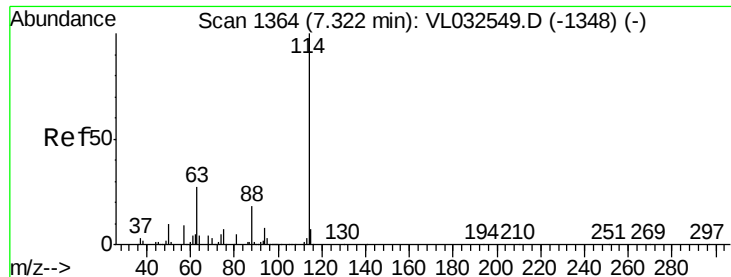
Delta R.T. -0.01 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Tgt Ion:	83	Resp:	23119
Ion Ratio	Lower	Upper	
83	100		
85	57.1	52.5	78.7





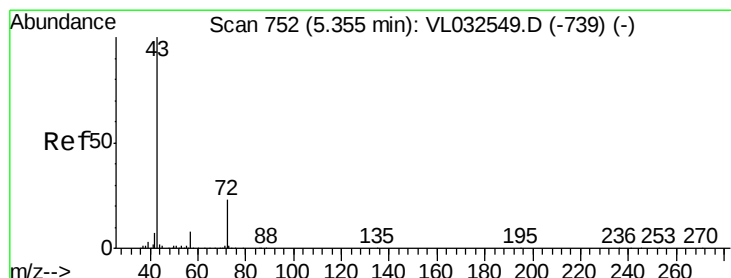
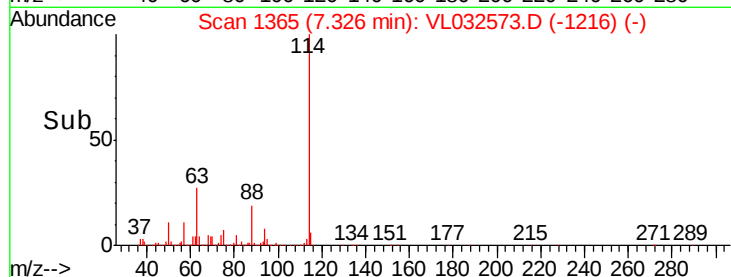
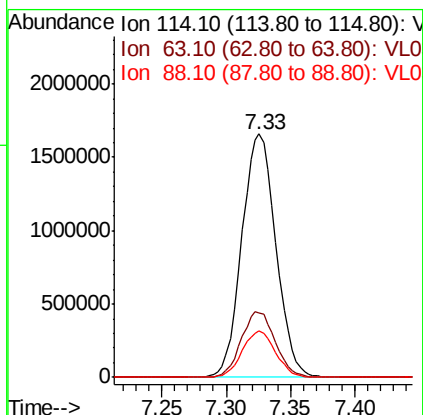
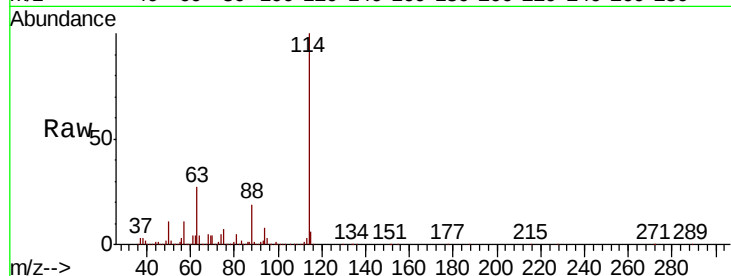
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1365
 Delta R.T. -0.02 min
 Lab File: VL032573.D
 Acq: 28 Sep 2018 6:42

Instrument :
 MSVOA_L
 ClientSampleId :
 KIA-1

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.2	33.4
88	18.7	15.0	22.4

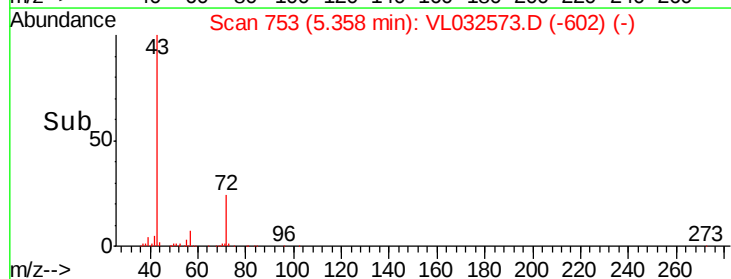
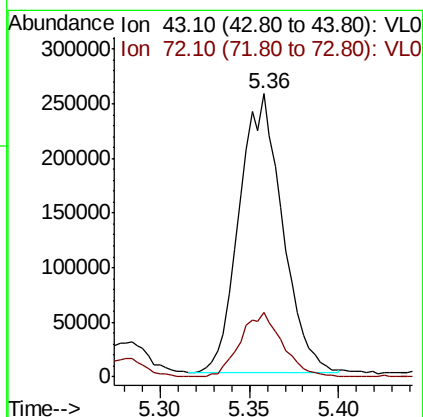
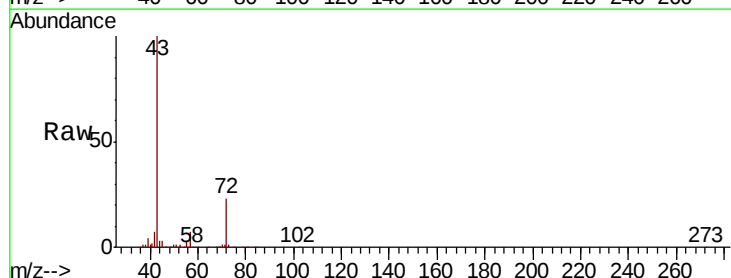
Manual Integrations
 APPROVED

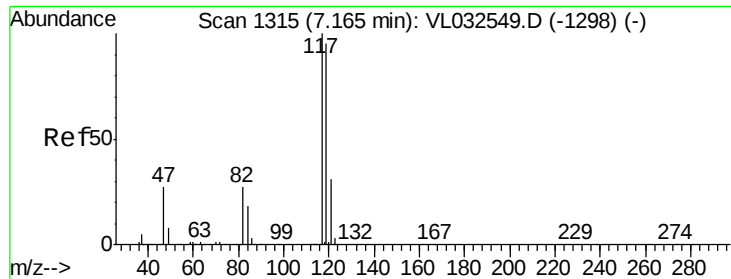
MMDadoda
 10/1/2018 11:57:58 AM



#34
 2-Butanone
 Concen: 2.380 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032573.D
 Acq: 28 Sep 2018 6:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.8	26.6





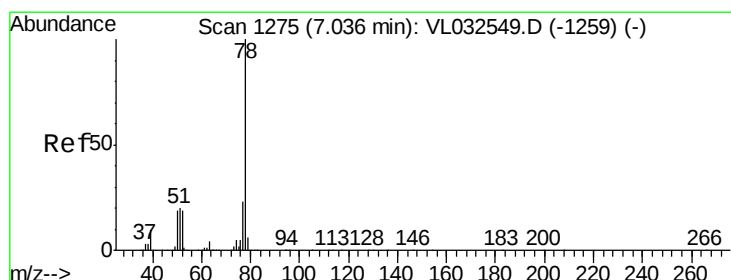
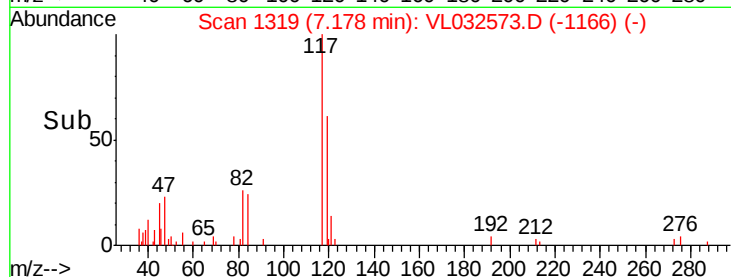
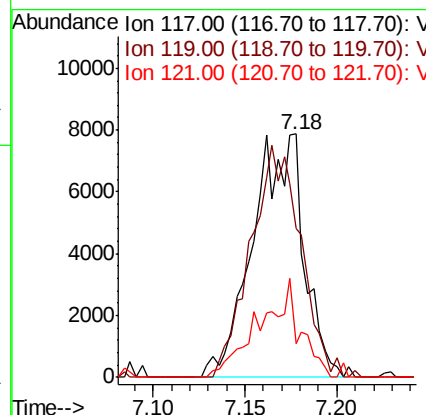
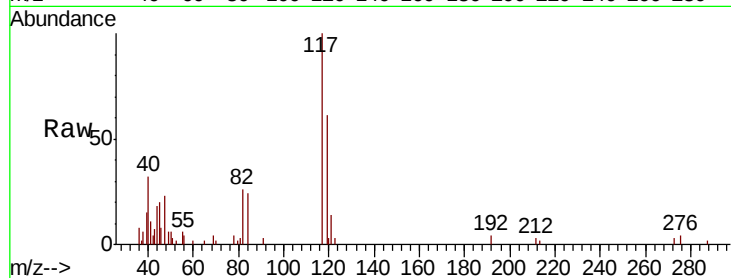
#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.18 min Scan# 1319
Delta R.T. -0.01 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Instrument :
MSVOA_L
ClientSampled :
KIA-1

Tgt Ion	Ratio	Lower	Upper
117	100		
119	61.0	76.6	115.0#
121	14.1	24.6	36.8#

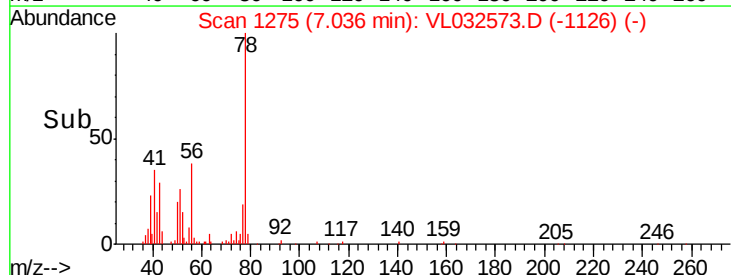
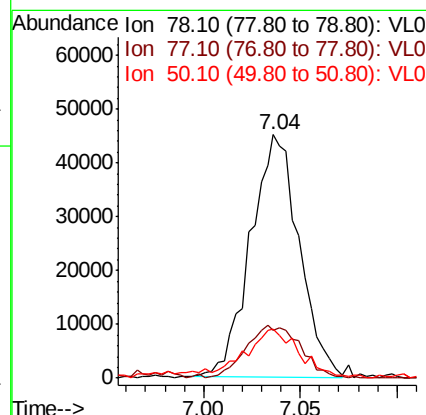
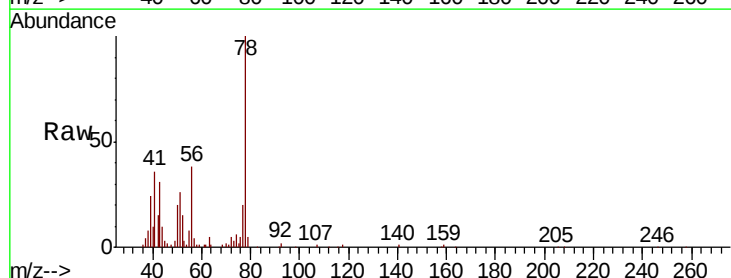
Manual Integrations
APPROVED

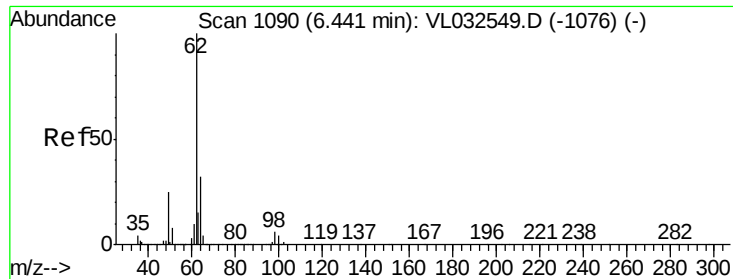
MMDadoda
10/1/2018 11:57:58 AM



#36
Benzene
Concen: 0.320 ppbv
RT: 7.04 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.3	18.4	27.6
50	17.6	14.4	21.6





#37

1,2-Dichloroethane

Concen: 0.216 ppbv m

RT: 6.45 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

KIA-1

Tgt Ion: 62 Resp: 32148

Ion Ratio Lower Upper

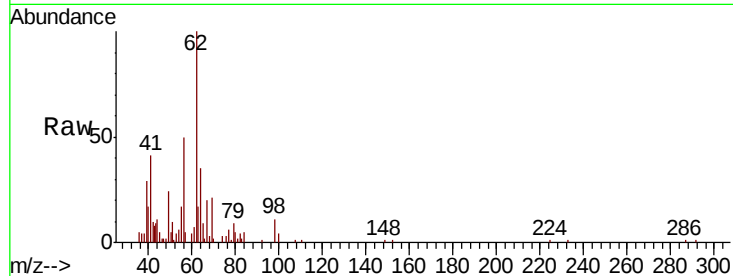
62 100

98 0.0 5.0 7.6#

Manual Integrations
APPROVED

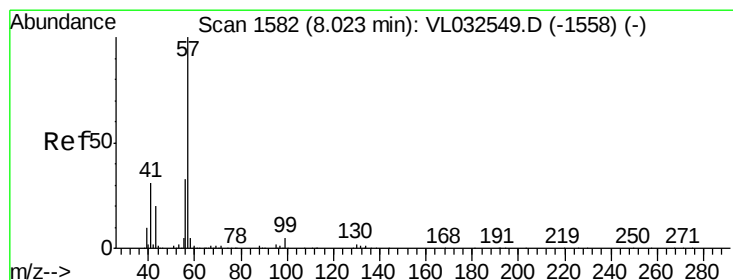
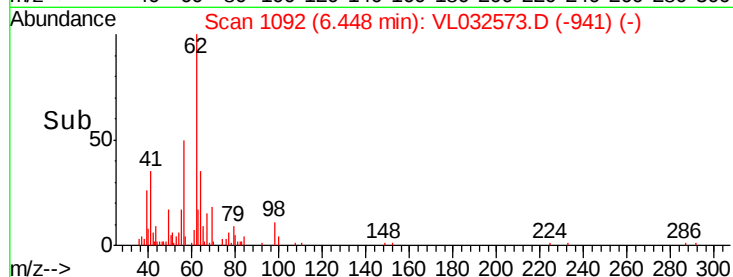
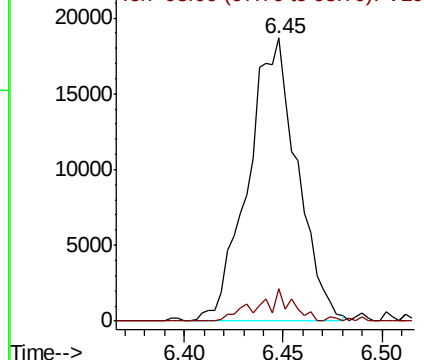
MMDadoda

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.109 ppbv m

RT: 8.03 min Scan# 1583

Delta R.T. -0.02 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

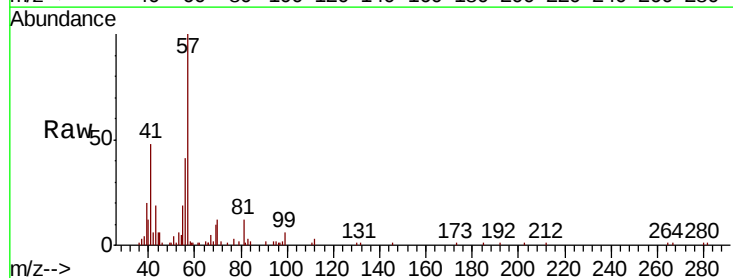
Tgt Ion: 57 Resp: 52515

Ion Ratio Lower Upper

57 100

41 46.7 24.4 36.6#

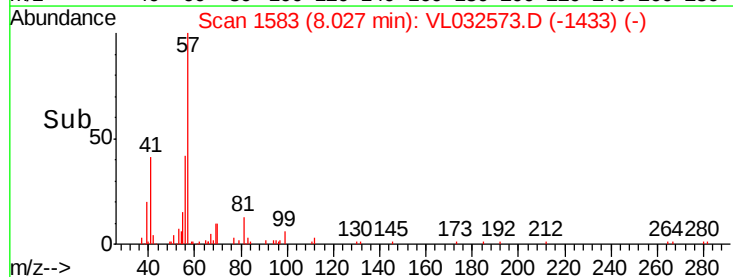
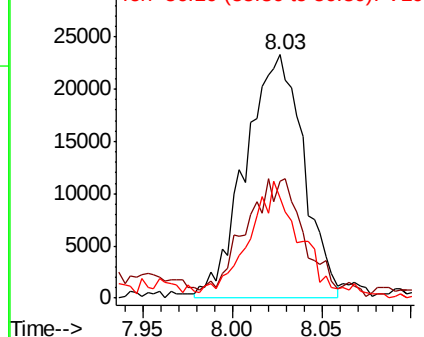
56 48.9 25.7 38.5#

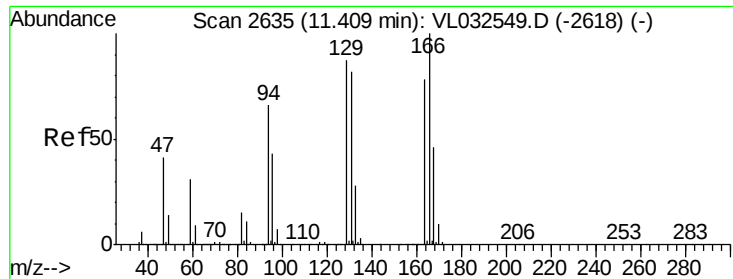


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





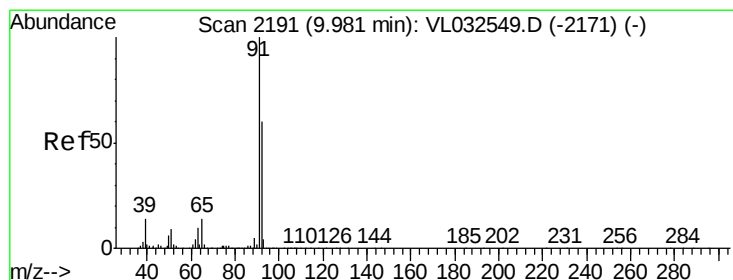
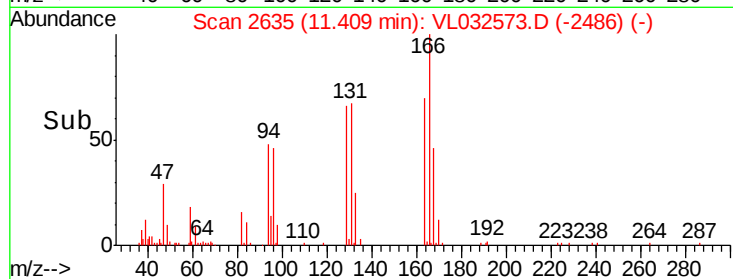
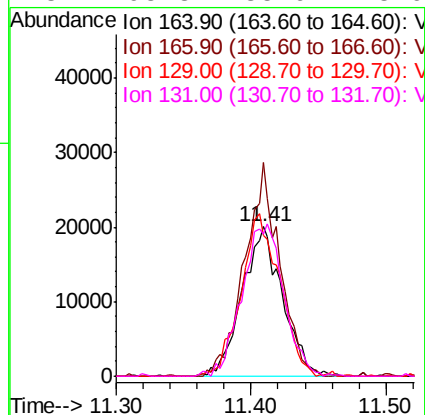
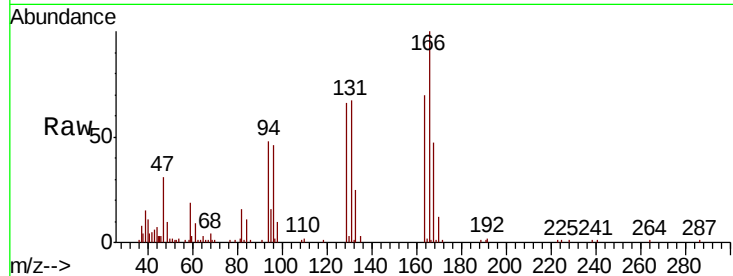
#52
Tetrachloroethene
Concen: 0.488 ppbv
RT: 11.41 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Instrument :
MSVOA_L
ClientSampled :
KIA-1

Tgt Ion:	164	Resp:	41850
Ion	Ratio	Lower	Upper
164	100		
166	143.1	100.6	150.8
129	94.6	89.9	134.9
131	95.3	85.9	128.9

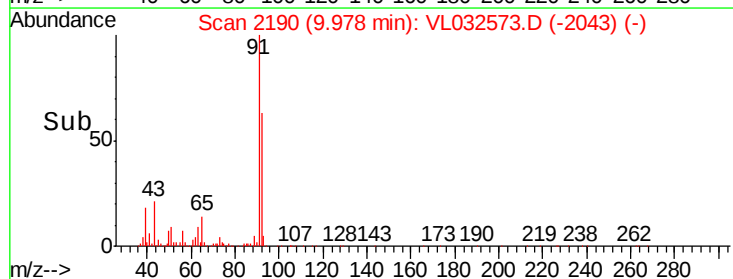
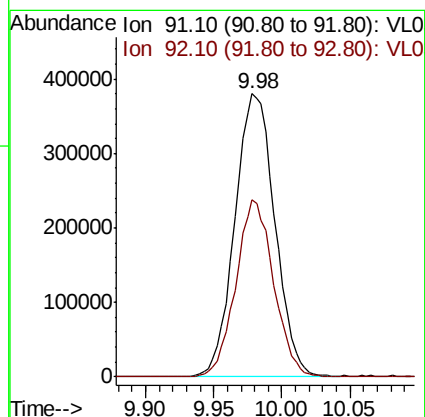
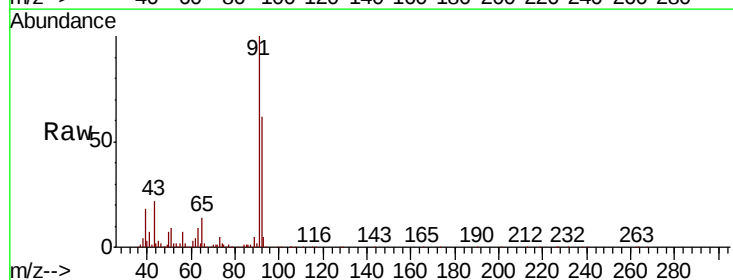
Manual Integrations
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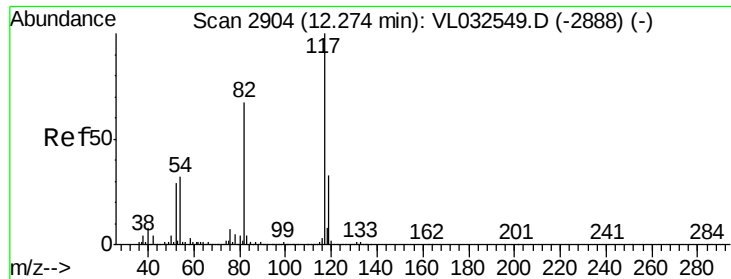
MMDadoda
10/1/2018 11:57:58 AM



#53
Toluene
Concen: 2.584 ppbv
RT: 9.98 min Scan# 2190
Delta R.T. -0.03 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Tgt Ion:	91	Resp:	775814
Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.1	72.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.28 min Scan# 2905

Delta R.T. -0.02 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Instrument :

MSVOA_L

ClientSampled :

KIA-1

Tgt Ion: 117 Resp: 3277011

Ion Ratio Lower Upper

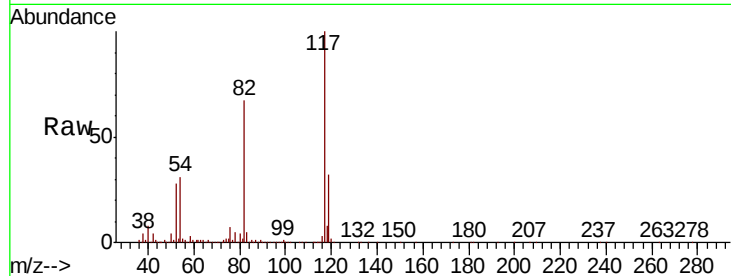
117 100

82 67.3 53.0 79.6

119 32.3 45.9 68.9#

Manual Integrations
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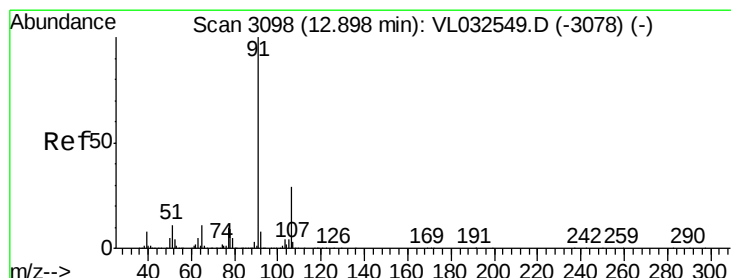
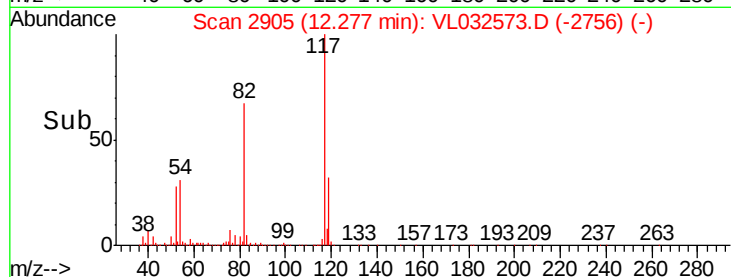
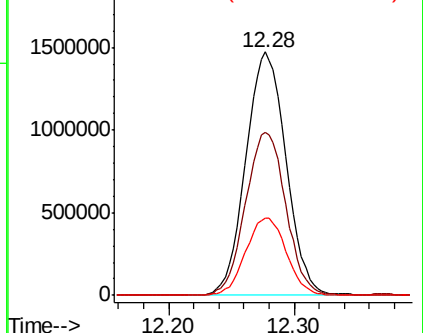
MMDadoda
10/1/2018 11:57:58 AM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.116 ppbv m

RT: 12.90 min Scan# 3098

Delta R.T. -0.02 min

Lab File: VL032573.D

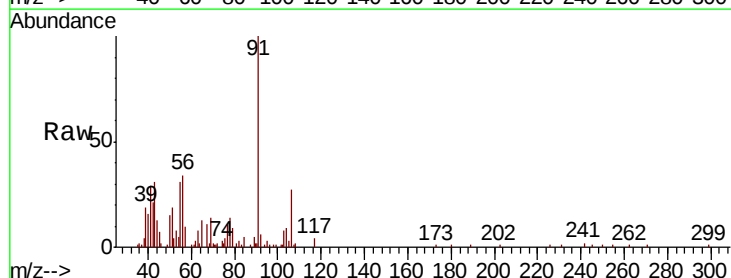
Acq: 28 Sep 2018 6:42

Tgt Ion: 91 Resp: 46303

Ion Ratio Lower Upper

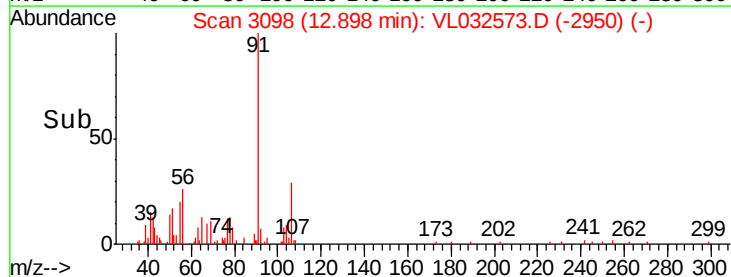
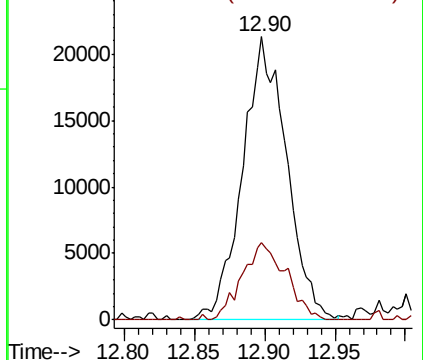
91 100

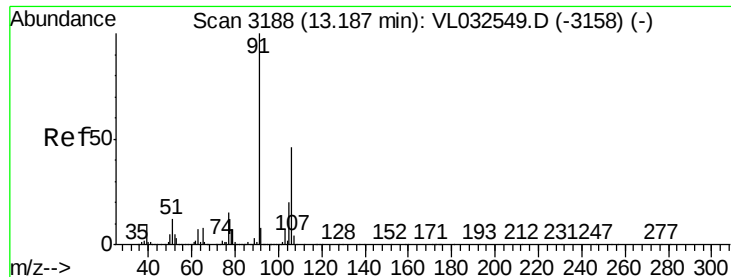
106 27.4 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





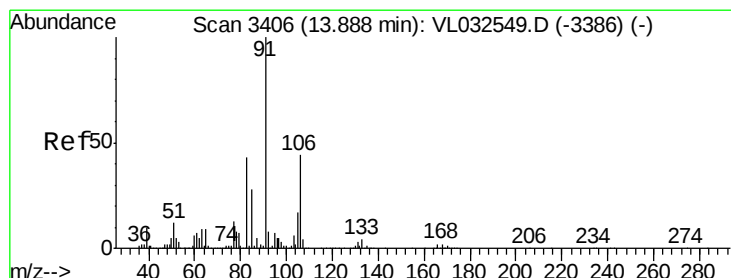
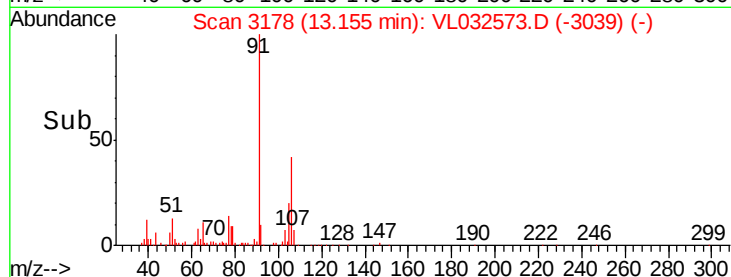
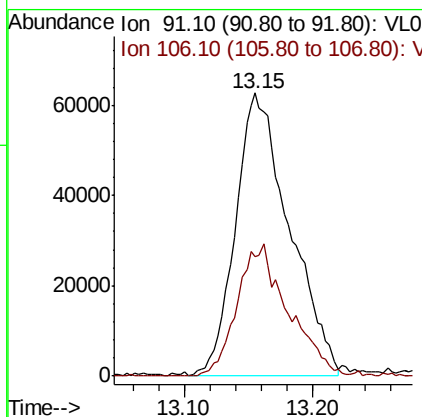
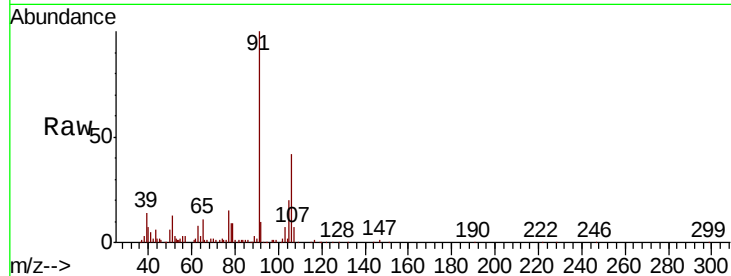
#59
m/p-Xylene
Concen: 0.517 ppbv
RT: 13.15 min Scan# 3178
Delta R.T. -0.05 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Instrument :
MSVOA_L
ClientSampled :
KIA-1

Tgt Ion: 91 Resp: 182715
Ion Ratio Lower Upper
91 100
106 44.4 36.6 55.0

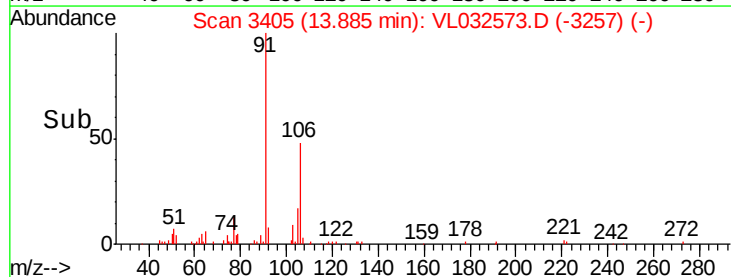
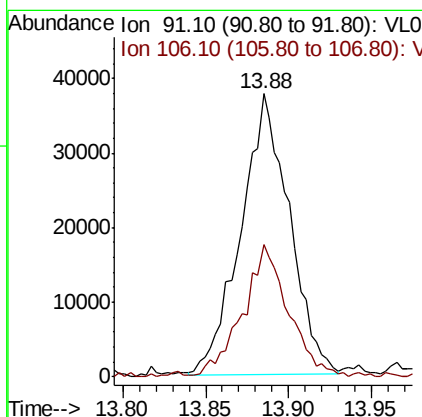
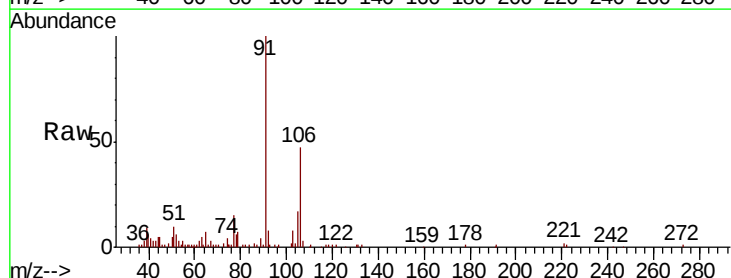
Manual Integrations
APPROVED

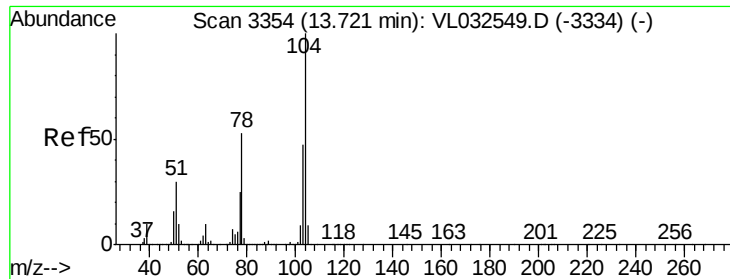
MMDadoda
10/1/2018 11:57:58 AM



#60
o-Xylene
Concen: 0.224 ppbv
RT: 13.88 min Scan# 3405
Delta R.T. -0.02 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Tgt Ion: 91 Resp: 77078
Ion Ratio Lower Upper
91 100
106 45.2 21.9 65.7





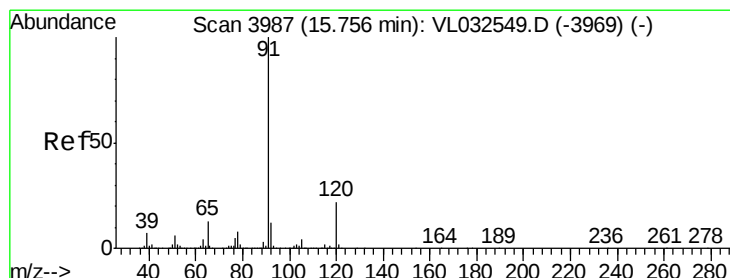
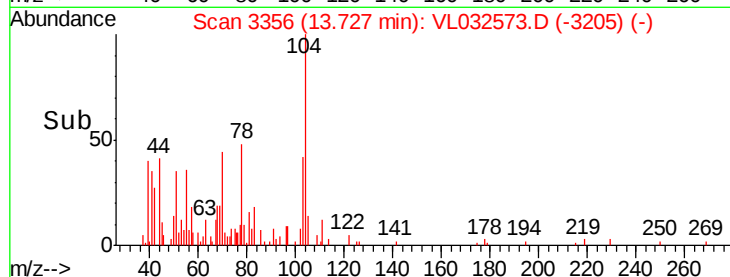
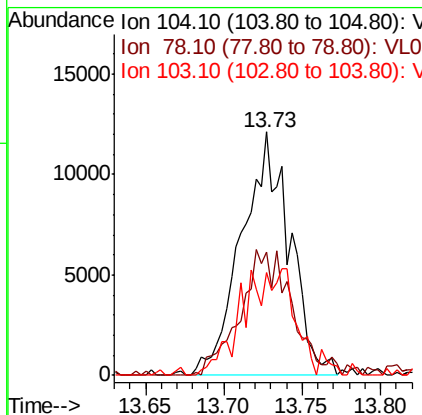
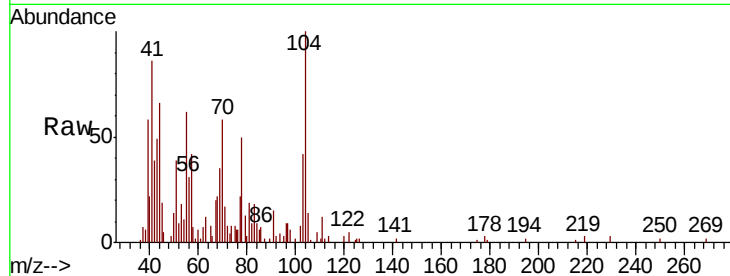
#61
Styrene
Concen: 0.114 ppbv m
RT: 13.73 min Scan# 3356
Delta R.T. -0.01 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Instrument :
MSVOA_L
ClientSampleId :
KIA-1

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	25706		
78	56.4	41.8	62.8	
103	0.0	38.0	57.0	

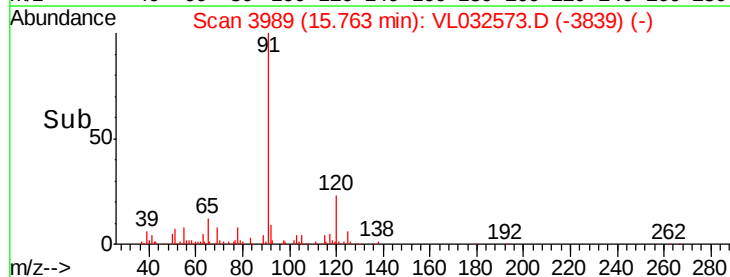
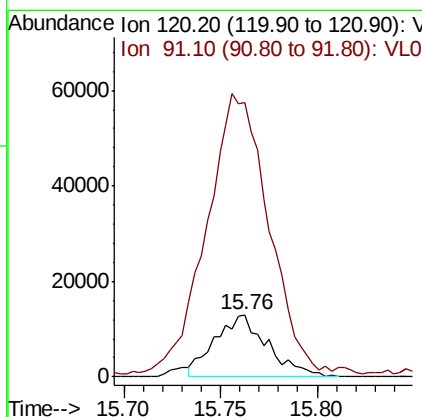
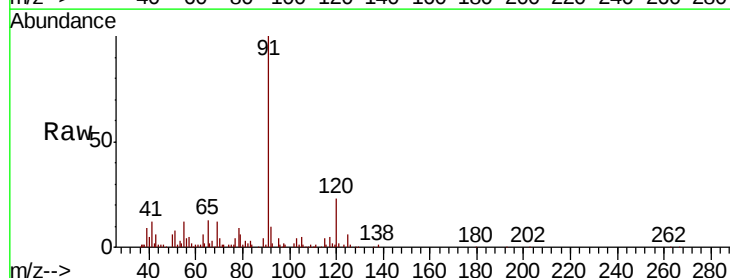
Manual Integrations
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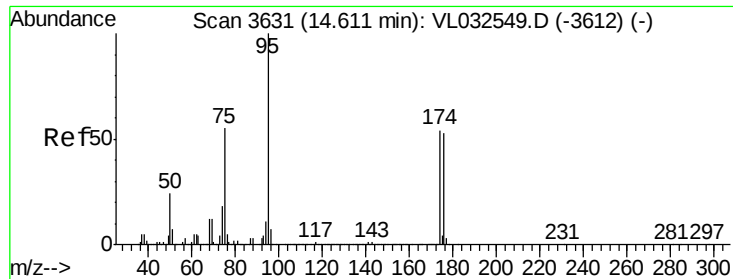
MMDadoda
10/1/2018 11:57:58 AM



#64
n-propylbenzene
Concen: 0.197 ppbv
RT: 15.76 min Scan# 3989
Delta R.T. -0.02 min
Lab File: VL032573.D
Acq: 28 Sep 2018 6:42

Tgt Ion	Ratio	Resp	Lower	Upper
120	100	24684		
91	535.5	381.8	572.6	





#68

1-Bromo-4-Fluorobenzene

Concen: 9.685 ppbv

RT: 14.62 min Scan# 3633

Delta R.T. -0.02 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Instrument :

MSVOA_L

ClientSampleId :

KIA-1

Tgt Ion: 95 Resp: 2393316

Ion Ratio Lower Upper

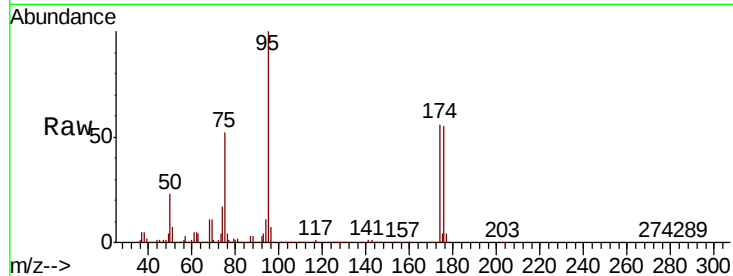
95 100

174 58.1 46.3 69.5

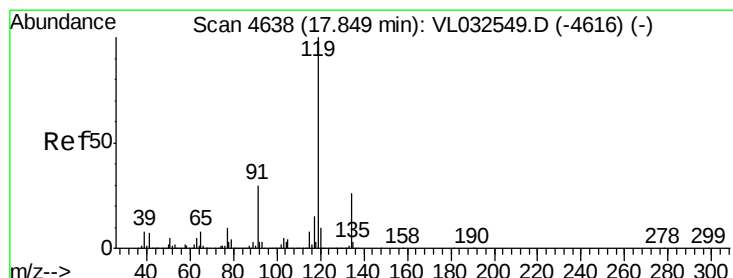
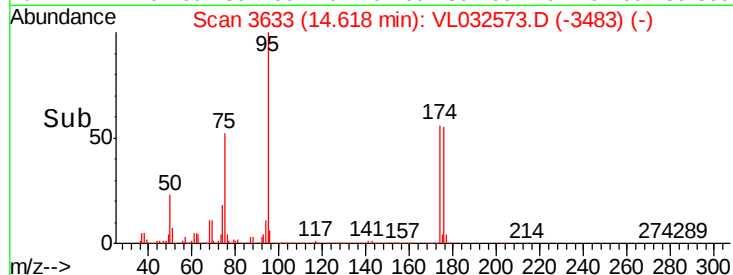
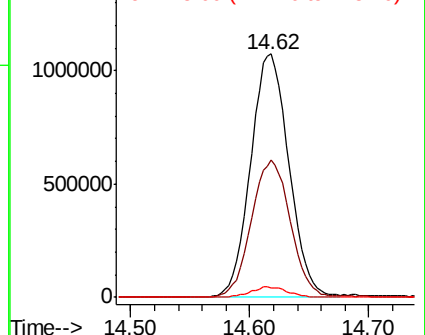
175 4.2 3.4 5.0

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:58 AM



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.191 ppbv

RT: 17.85 min Scan# 4638

Delta R.T. -0.02 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

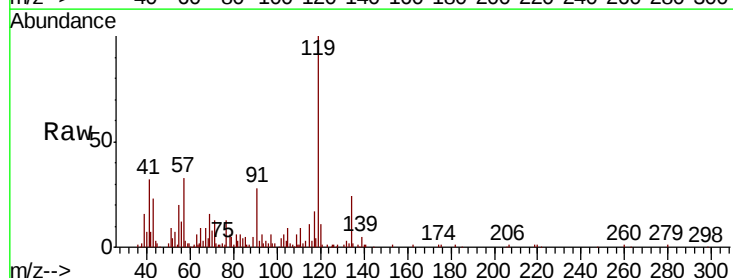
Tgt Ion: 119 Resp: 91731

Ion Ratio Lower Upper

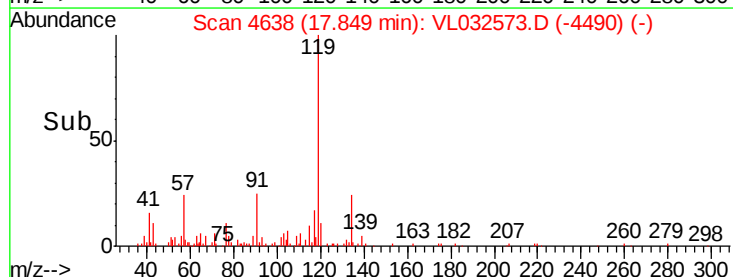
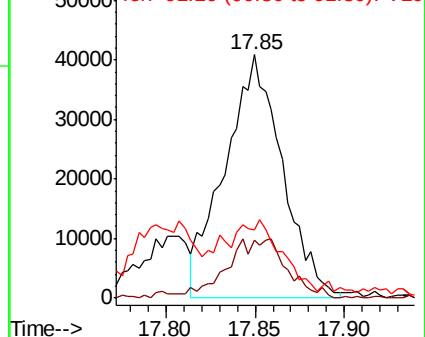
119 100

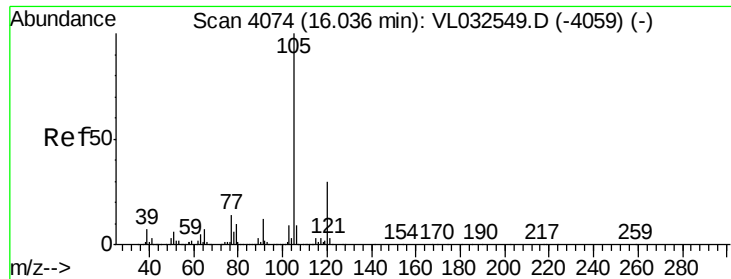
134 26.4 20.4 30.6

91 27.4 23.4 35.2



Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): VL0





#72

4-Ethyltoluene

Concen: 0.467 ppbv

RT: 16.04 min Scan# 4075

Delta R.T. -0.02 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Instrument :

MSVOA_L

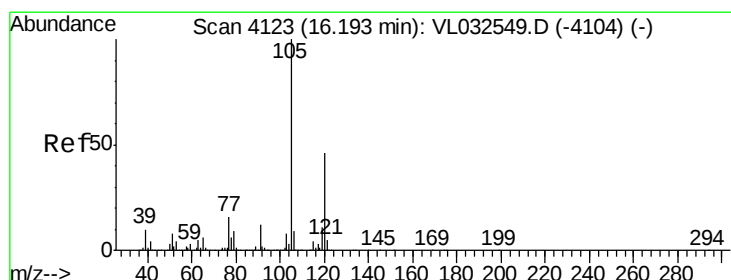
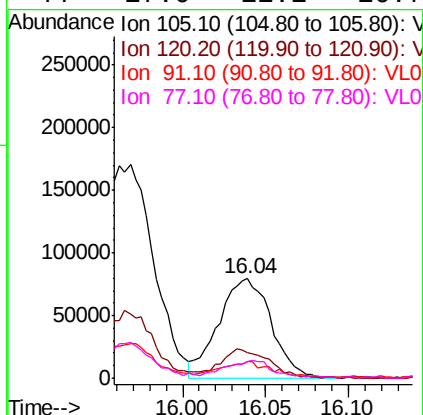
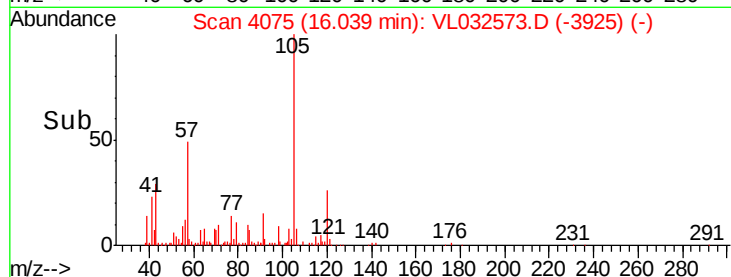
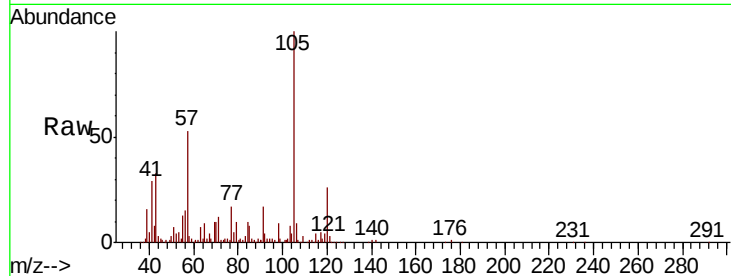
ClientSampled :

KIA-1

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	174471		
120	28.7	23.5	35.3	
91	16.0	10.2	15.2	
77	17.0	11.1	16.7	

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:58 AM



#73

1,3,5-Trimethylbenzene

Concen: 0.735 ppbv

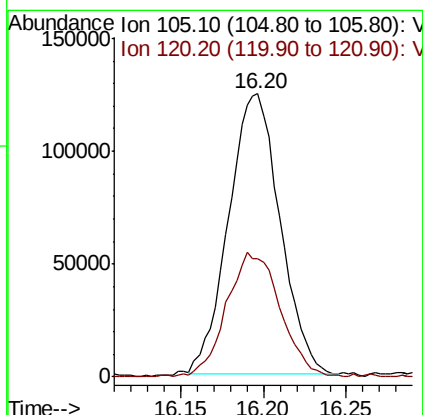
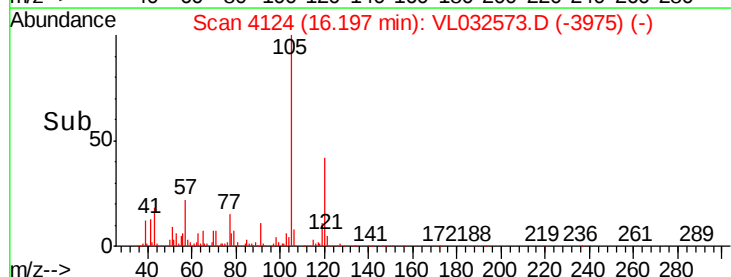
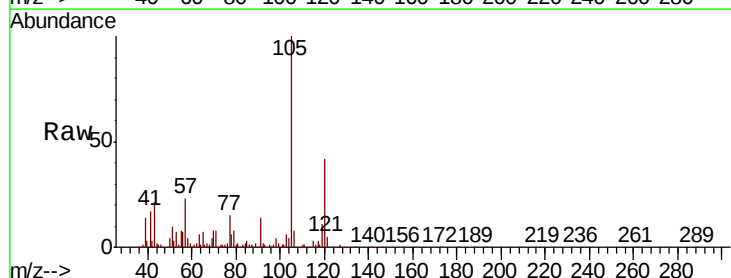
RT: 16.20 min Scan# 4124

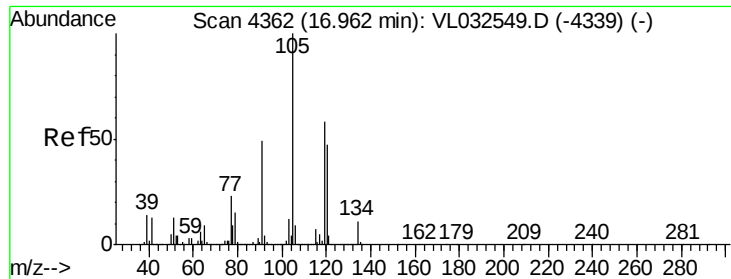
Delta R.T. -0.02 min

Lab File: VL032573.D

Acq: 28 Sep 2018 6:42

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	267036		
120	41.5	37.9	56.9	





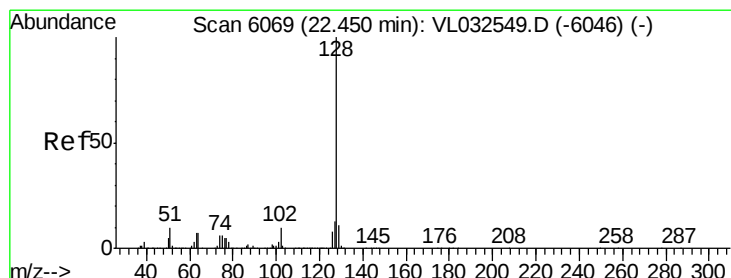
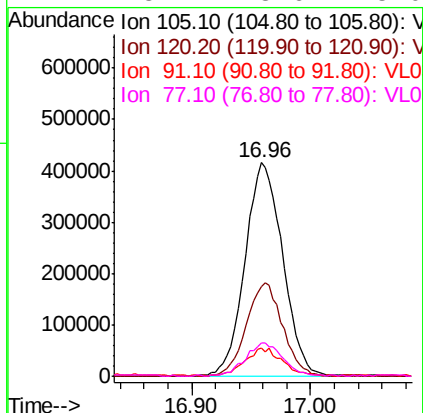
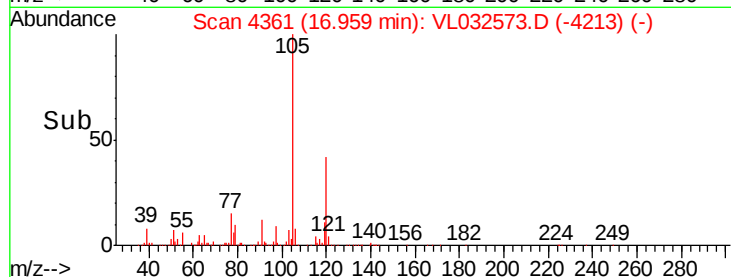
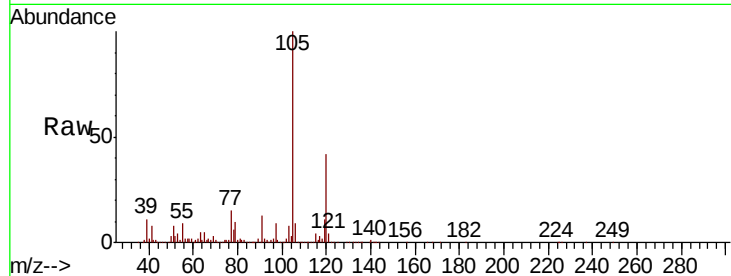
#74
 1,2,4-Trimethylbenzene
 Concen: 2.328 ppbv
 RT: 16.96 min Scan# 4361
 Delta R.T. -0.02 min
 Lab File: VL032573.D
 Acq: 28 Sep 2018 6:42

Instrument :
 MSVOA_L
 ClientSampled :
 KIA-1

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	910440		
120	41.9	37.8	56.8	
91	12.8	41.4	62.0	#
77	15.2	18.6	28.0	#

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:58 AM



#79
 Naphthalene
 Concen: 0.133 ppbv m
 RT: 22.45 min Scan# 6069
 Delta R.T. -0.03 min
 Lab File: VL032573.D
 Acq: 28 Sep 2018 6:42

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	37414		
127	16.1	10.2	15.2	#
129	14.9	8.5	12.7	#

