

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033521.D
 Acq On : 30 Mar 2019 3:35
 Operator : SY/AP
 Sample : K2042-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3-CAFETERIA

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:29 AM

Quant Time: Mar 30 04:09:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	802291	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1844858	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1859892	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1466057	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	48649	0.416	ppbv	100
4) Chloromethane	3.17	50	27471	0.562	ppbv	96
9) Propene	3.05	41	91914m	2.370	ppbv	
10) Heptane	8.25	43	30189	0.291	ppbv	99
11) Trichlorofluoromethane	4.00	101	39897	0.277	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.55	101	6923m	0.071	ppbv	
13) Ethanol	3.65	45	1486878	148.132	ppbv	65
15) Acetone	3.90	43	812344	8.421	ppbv	98
17) tert-Butyl alcohol	4.37	59	95520	5.385	ppbv #	92
19) Isopropyl Alcohol	4.03	45	165932	2.719	ppbv #	1
20) Methylene Chloride	4.41	84	468489	11.441	ppbv	95
26) Hexane	5.78	57	290177	3.646	ppbv #	47
29) Chloroform	5.84	83	13739	0.101	ppbv	88
30) Cyclohexane	7.25	84	7961m	0.126	ppbv	
34) 2-Butanone	5.33	43	75866	0.684	ppbv	98
35) Carbon Tetrachloride	7.13	117	8888m	0.068	ppbv	
36) Benzene	7.00	78	75251	0.486	ppbv	95
38) Trichloroethene	7.96	130	30827m	0.529	ppbv	
44) 2,2,4-Trimethylpentane	7.99	57	43382	0.160	ppbv #	67
53) Toluene	9.95	91	1154488	6.418	ppbv	100
58) Ethyl Benzene	12.86	91	34241m	0.138	ppbv	
59) m/p-Xylene	13.12	91	108577m	0.489	ppbv	
60) o-Xylene	13.85	91	36105m	0.168	ppbv	
61) Styrene	13.69	104	211662	1.438	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	19026m	0.077	ppbv	

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

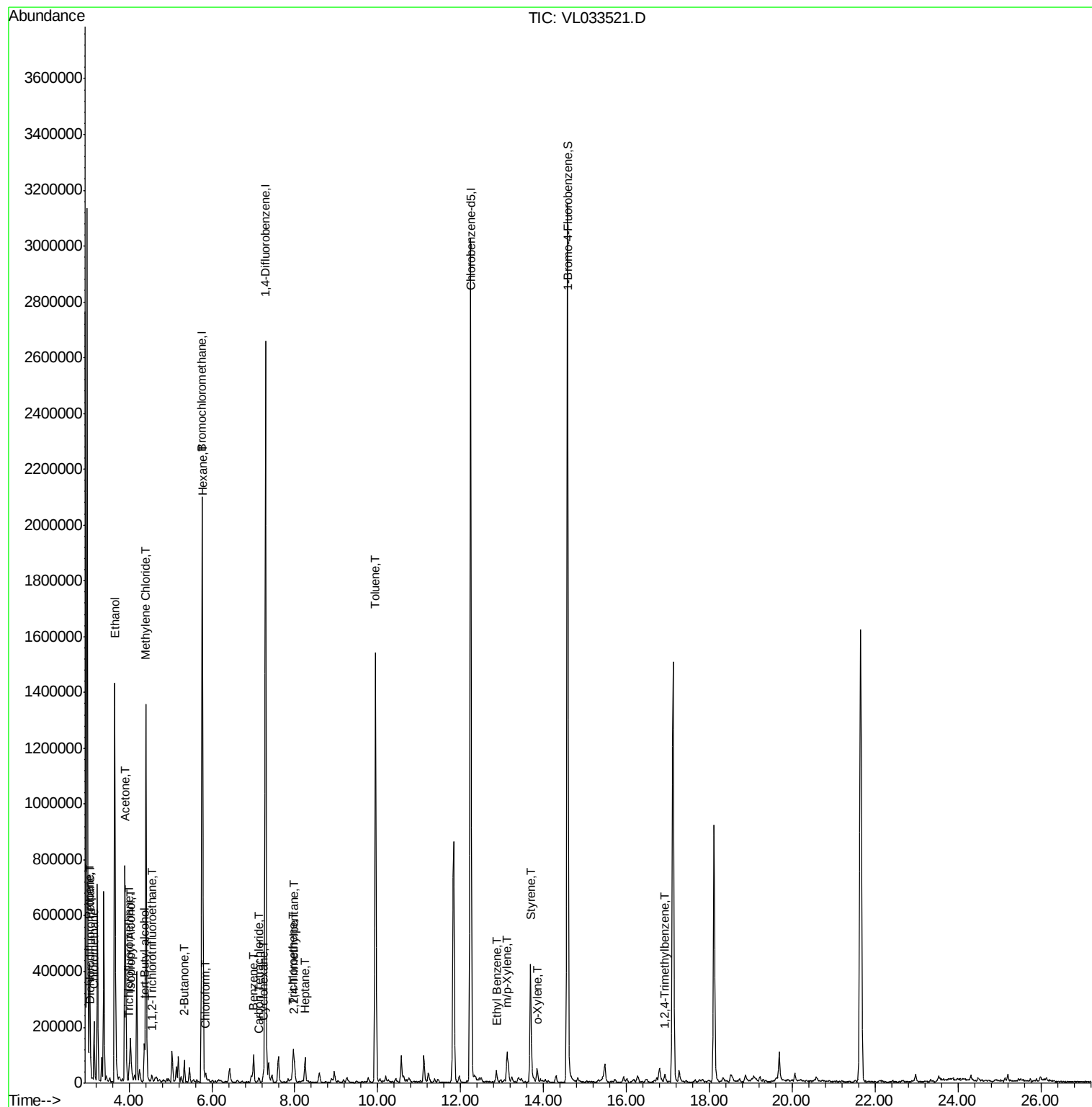
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Instrument :

MSVOA_L

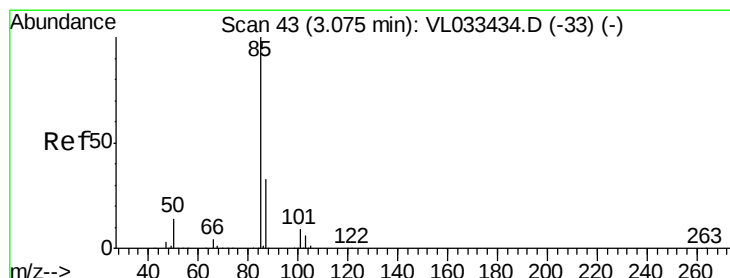
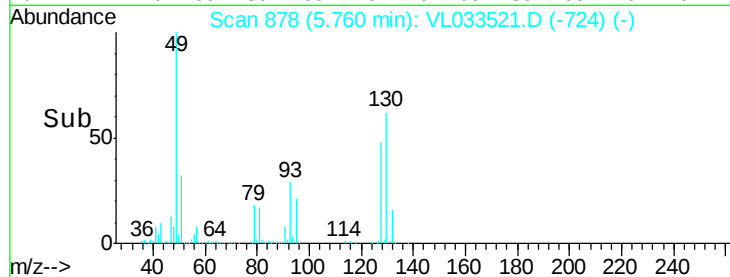
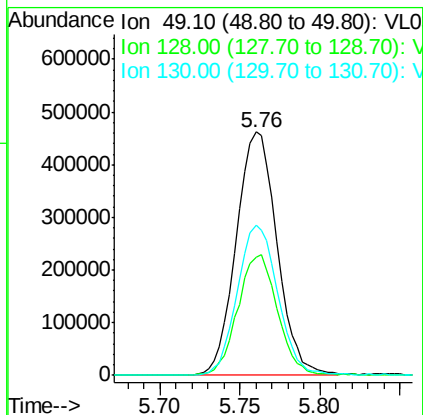
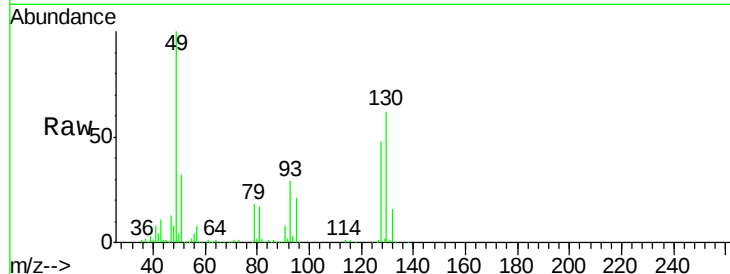
ClientSampleId :

SG-3-CAFETERIA

Tot Ion:	49	Resp:	802291
Ion	Ratio	Lower	Upper
49	100		
128	48.7	24.0	72.0
130	61.8	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.416 ppbv

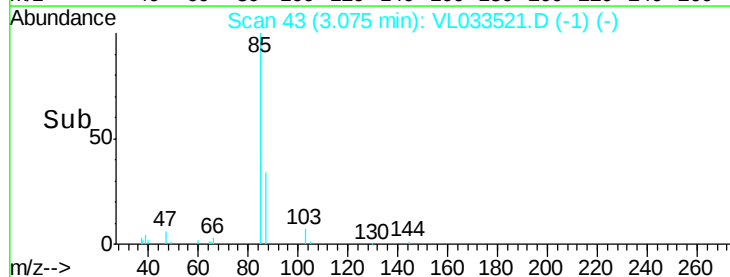
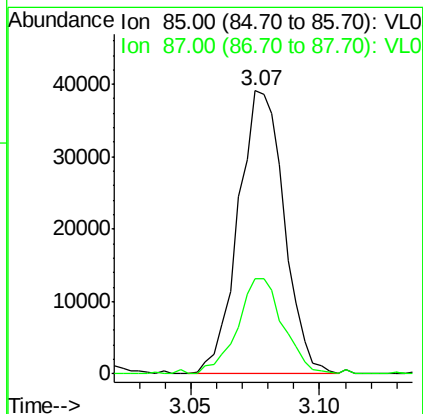
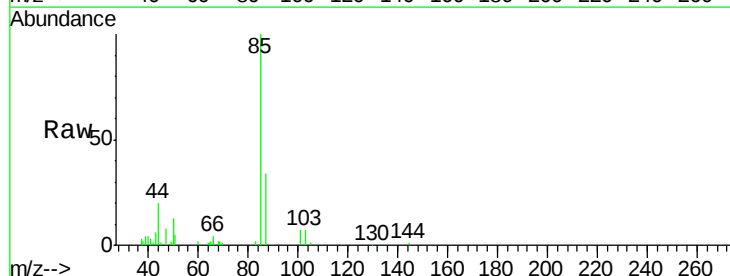
RT: 3.07 min Scan# 43

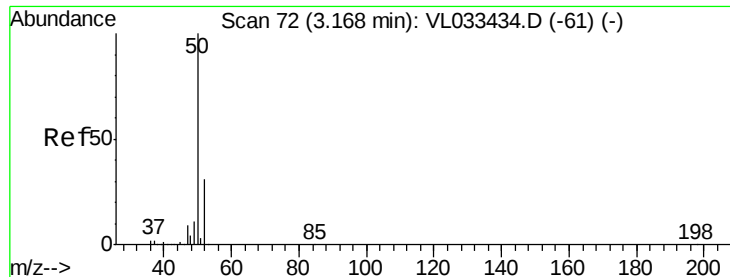
Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Tgt Ion:	85	Resp:	48649
Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.7	40.1





#4

Chloromethane

Concen: 0.562 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Instrument :

MSVOA_L

ClientSampleId :

SG-3-CAFETERIA

Tot Ion: 50 Resp: 27471

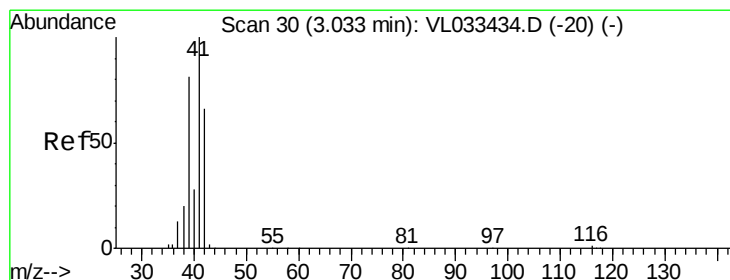
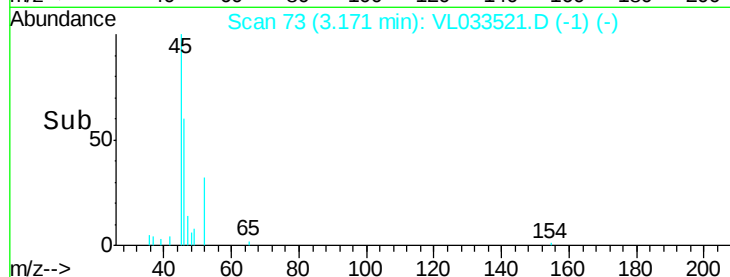
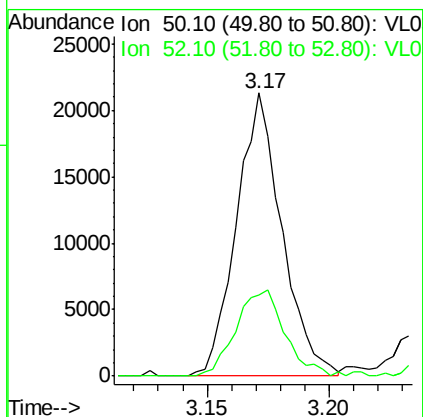
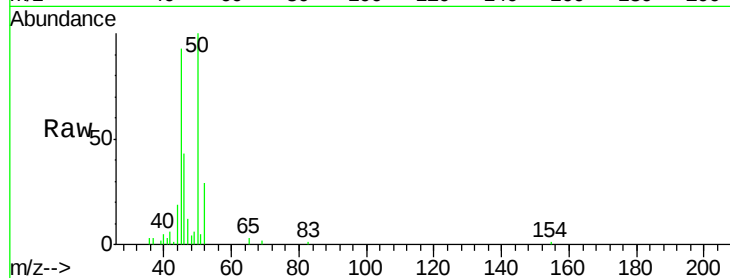
Ion Ratio Lower Upper

50 100

52 28.8 25.0 37.6

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#9

Propene

Concen: 2.370 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033521.D

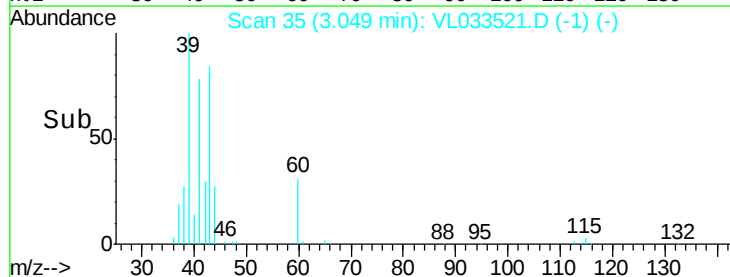
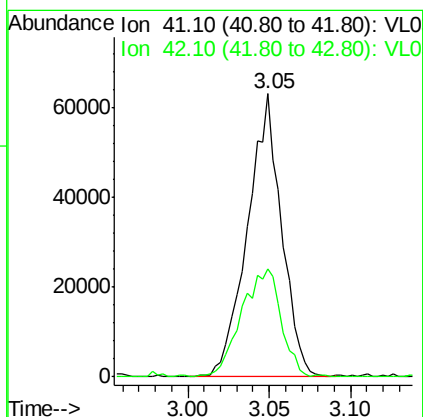
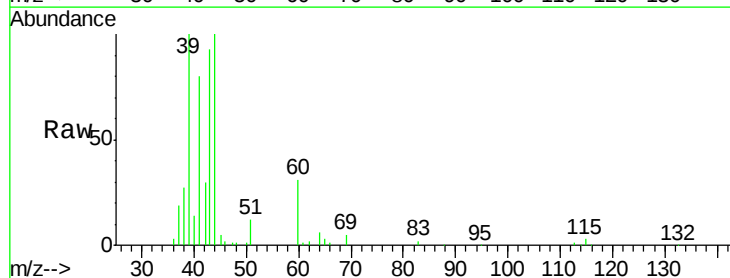
Acq: 30 Mar 2019 3:35

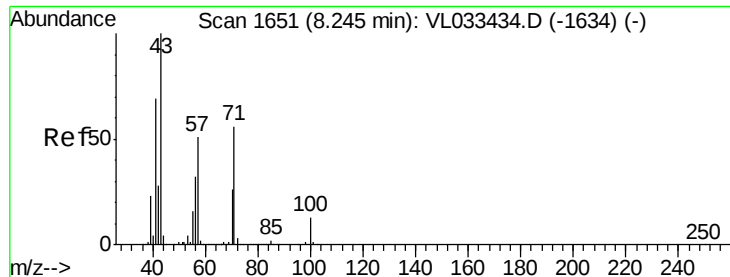
Tgt Ion: 41 Resp: 91914

Ion Ratio Lower Upper

41 100

42 134.7 53.9 80.9#





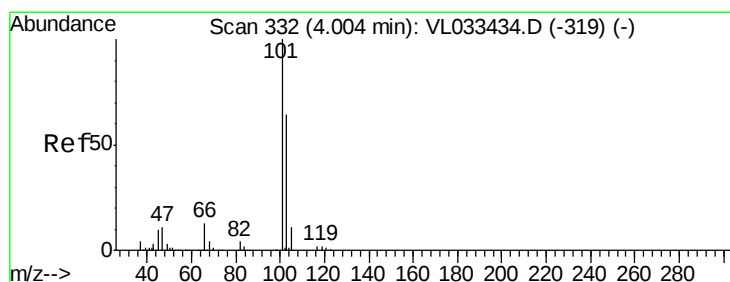
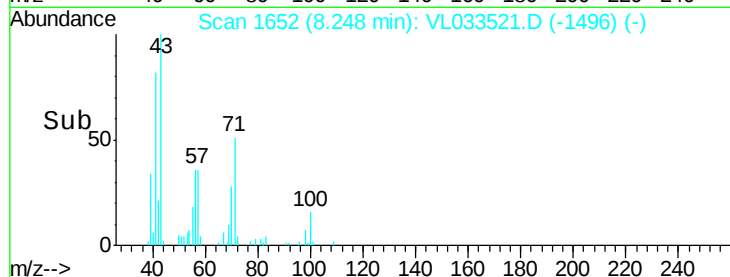
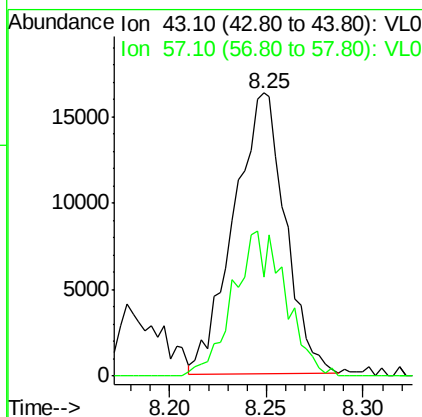
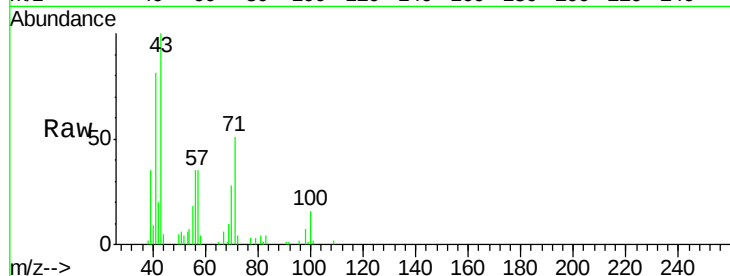
#10
Heptane
Concen: 0.291 ppbv
RT: 8.25 min Scan# 1652
Delta R.T. 0.00 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIA

Tot Ion: 43 Resp: 30189
Ion Ratio Lower Upper
43 100
57 51.6 40.6 60.8

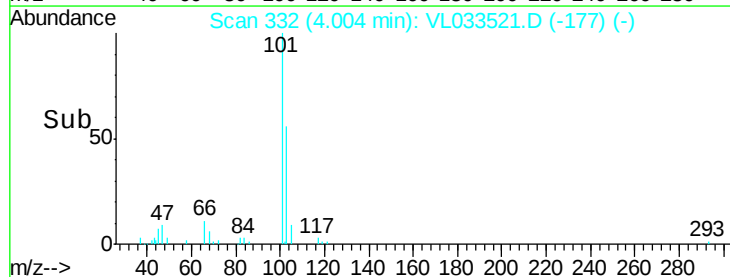
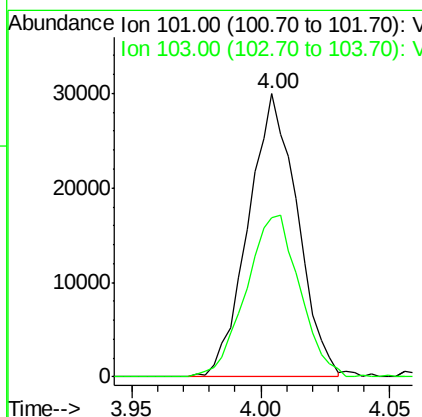
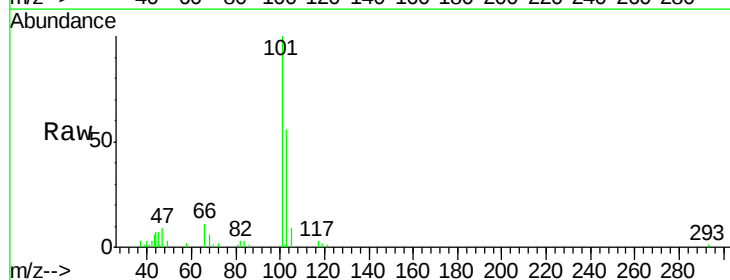
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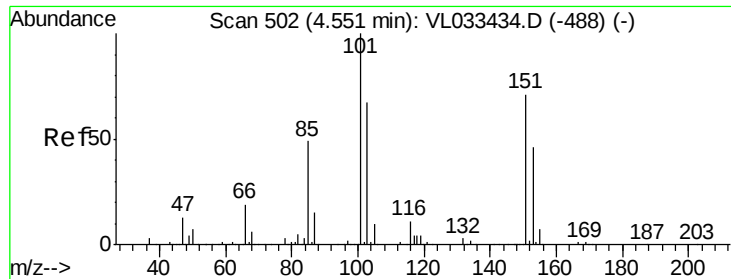
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#11
Trichlorofluoromethane
Concen: 0.277 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Tgt Ion: 101 Resp: 39897
Ion Ratio Lower Upper
101 100
103 56.0 51.3 76.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.071 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Instrument :

MSVOA_L

ClientSampleId :

SG-3-CAFETERIA

Tot Ion:101 Resp: 6923

Ion Ratio Lower Upper

101 100

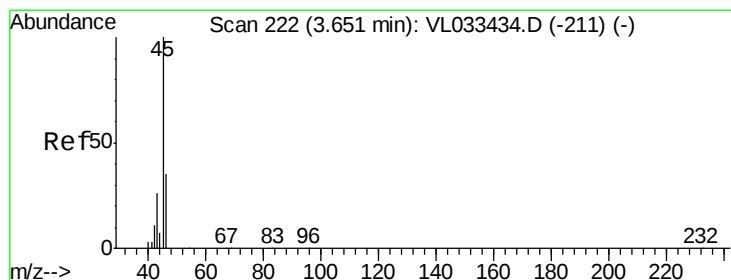
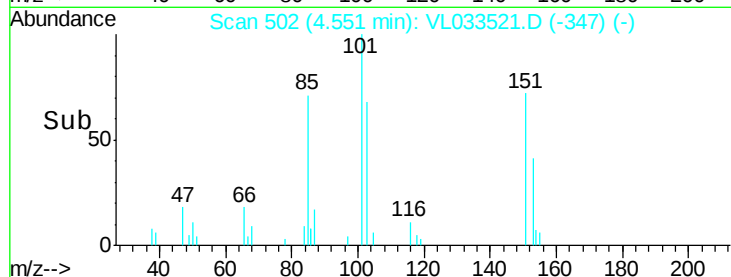
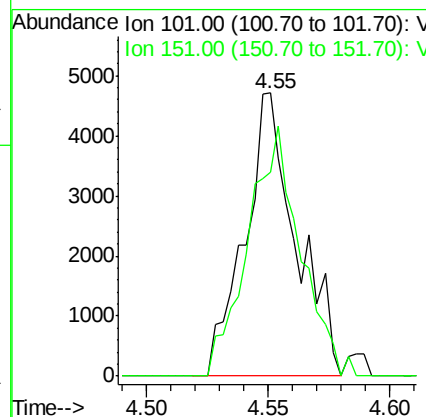
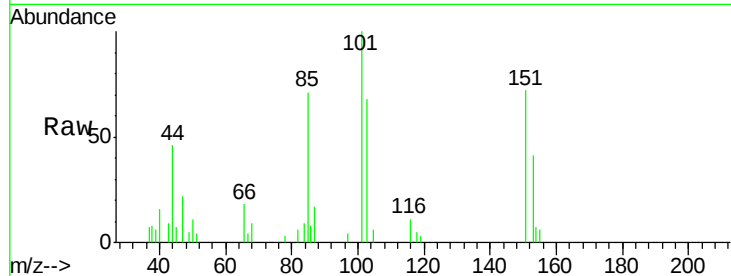
151 89.5 57.7 86.5#

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#13

Ethanol

Concen: 148.132 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033521.D

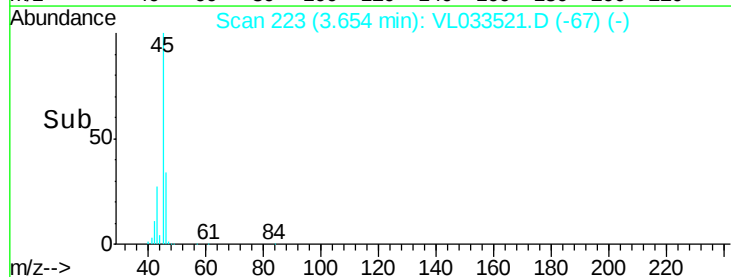
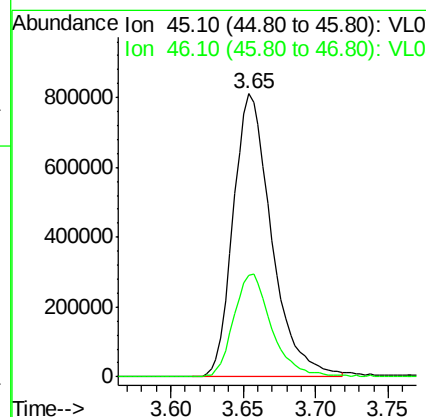
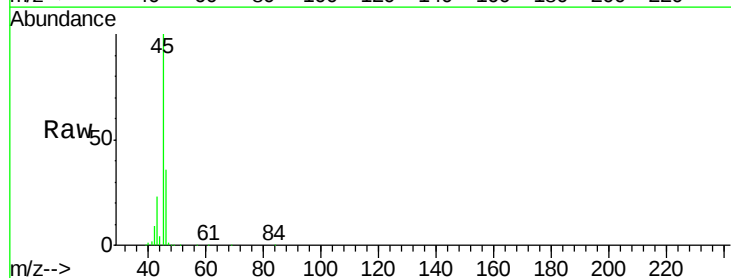
Acq: 30 Mar 2019 3:35

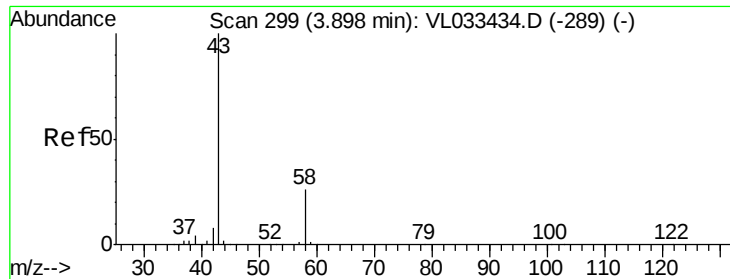
Tgt Ion: 45 Resp: 1486878

Ion Ratio Lower Upper

45 100

46 36.4 25.4 101.8





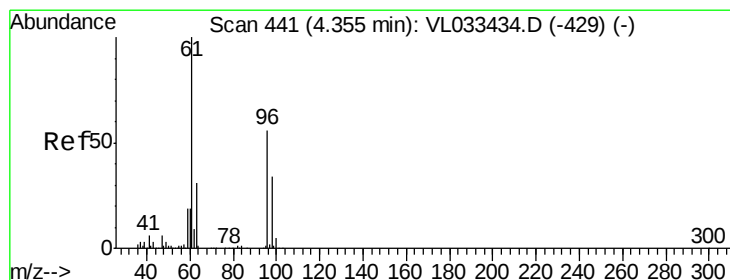
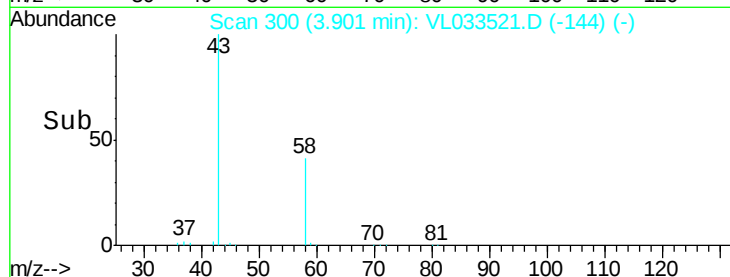
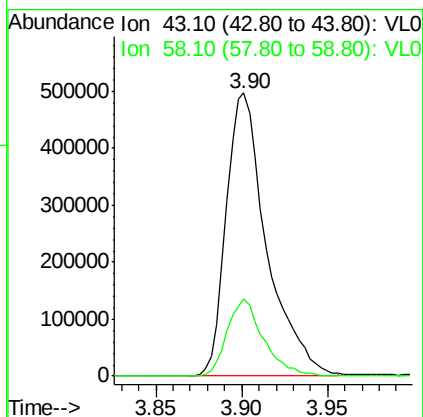
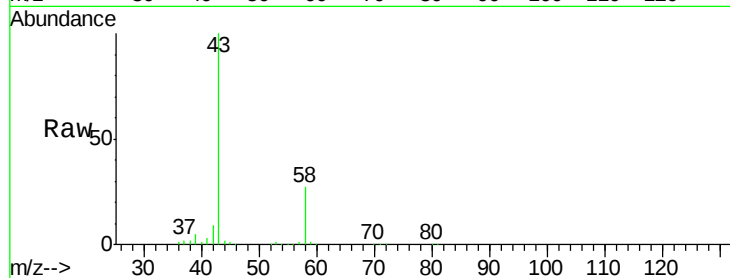
#15
Acetone
Concen: 8.421 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIA

Tot Ion	Ratio	Lower	Upper
43	100		
58	24.6	20.5	30.7

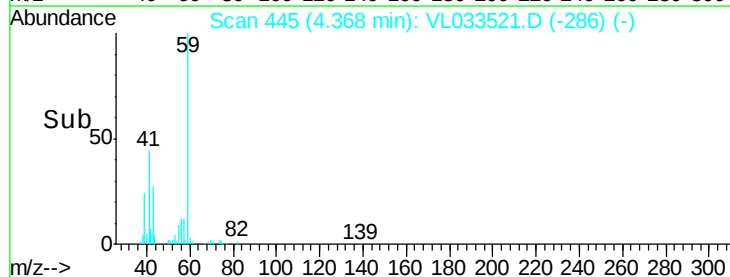
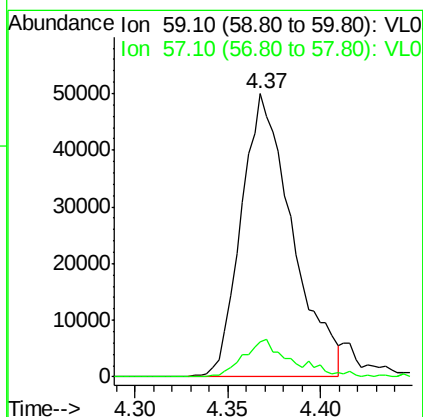
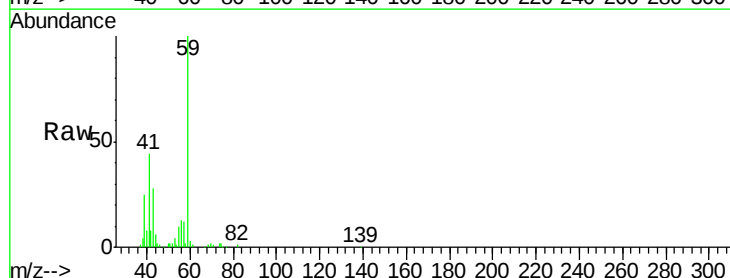
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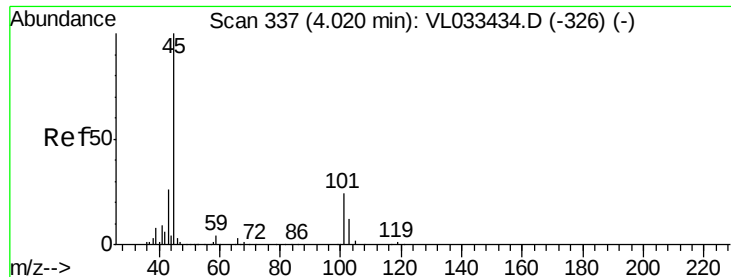
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#17
tert-Butyl alcohol
Concen: 5.385 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.01 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Tgt Ion	Ratio	Lower	Upper
59	100		
57	12.8	7.8	11.8#





#19

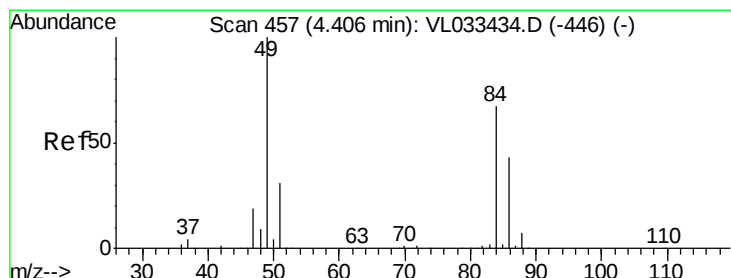
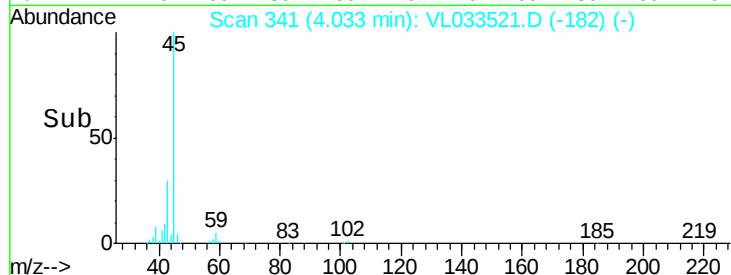
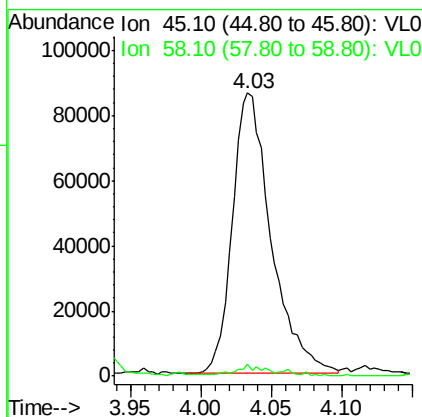
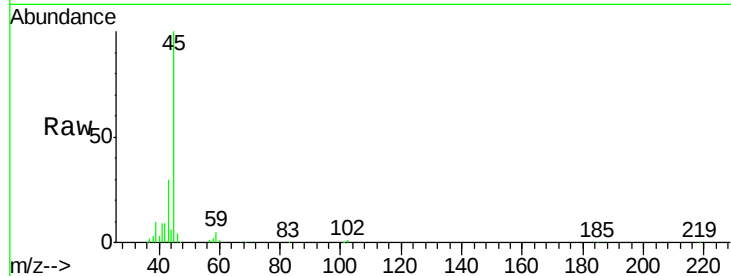
Isopropyl Alcohol
 Concen: 2.719 ppbv
 RT: 4.03 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VL033521.D
 Acq: 30 Mar 2019 3:35

Instrument :
 MSVOA_L
 ClientSampleID :
 SG-3-CAFETERIA

Tot Ion: 45 Resp: 165932
 Ion Ratio Lower Upper
 45 100
 58 121.0 1.4 2.2#

Manual Integrations
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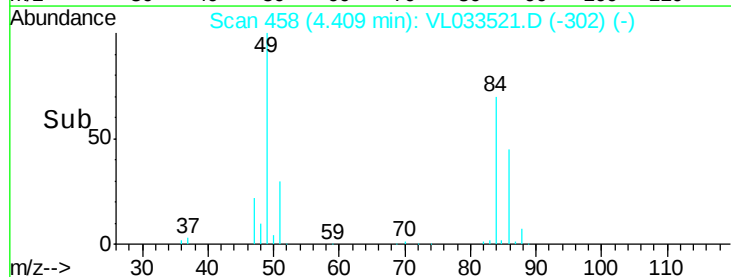
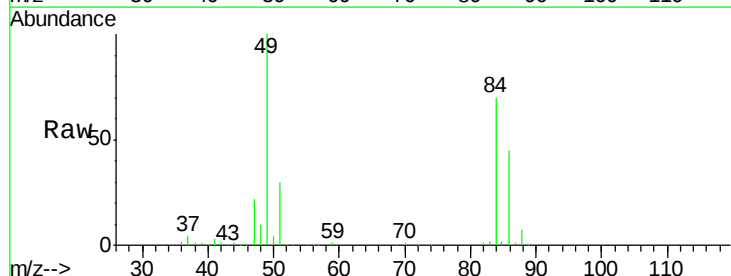
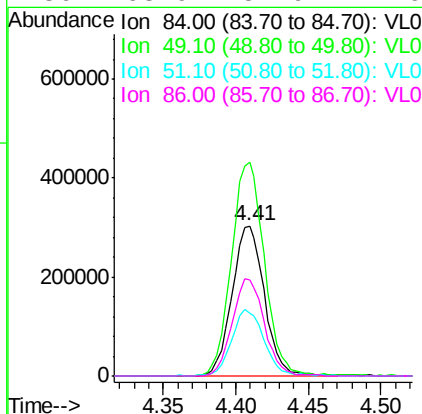
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 4/1/2019 4:03:29 AM

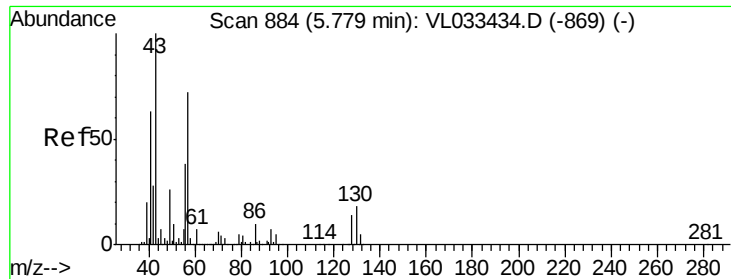


#20

Methylene Chloride
 Concen: 11.441 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033521.D
 Acq: 30 Mar 2019 3:35

Tgt Ion: 84 Resp: 468489
 Ion Ratio Lower Upper
 84 100
 49 142.3 120.0 180.0
 51 41.9 36.7 55.1
 86 63.9 51.9 77.9





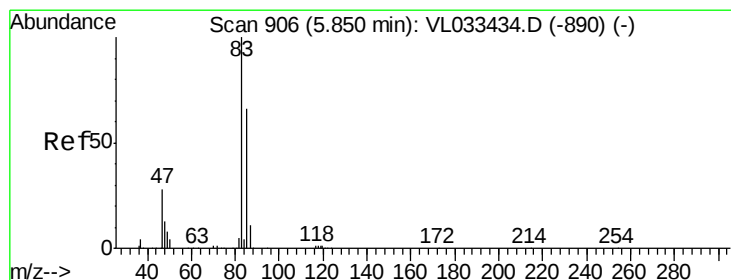
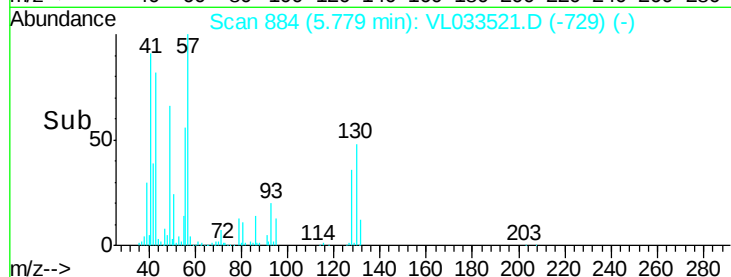
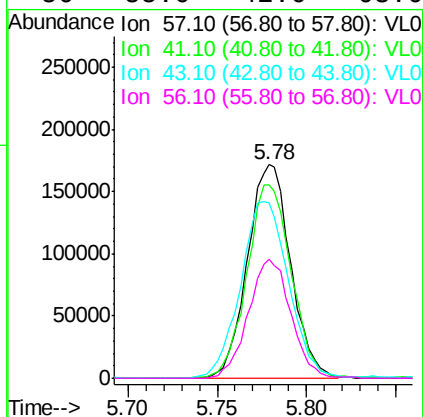
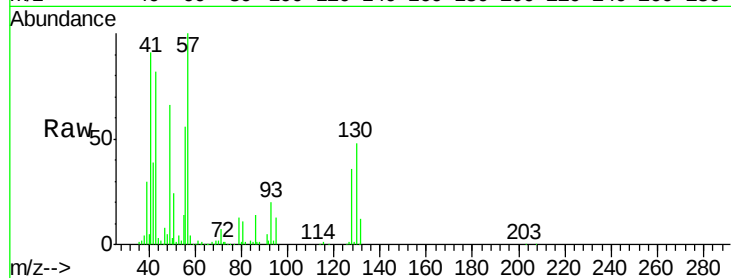
#26
Hexane
Concen: 3.646 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIA

Tot Ion	57	Resp	290177
Ion Ratio	Lower	Upper	
57	100		
41	93.3	70.7	106.1
43	92.8	182.6	274.0#
56	55.0	42.0	63.0

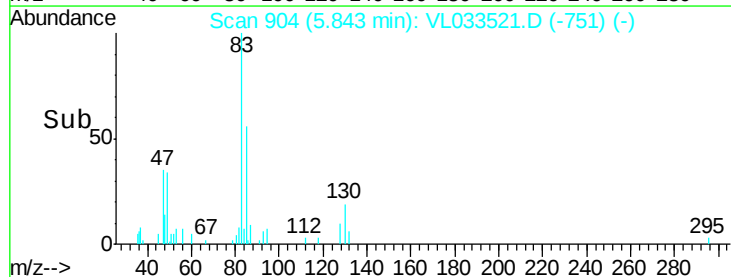
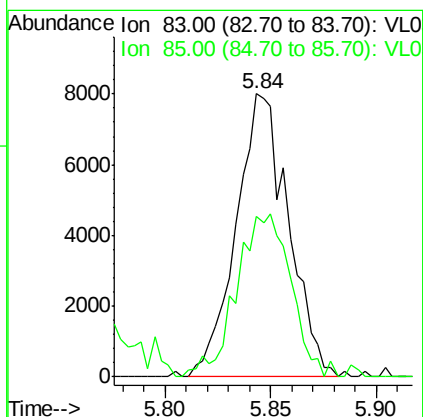
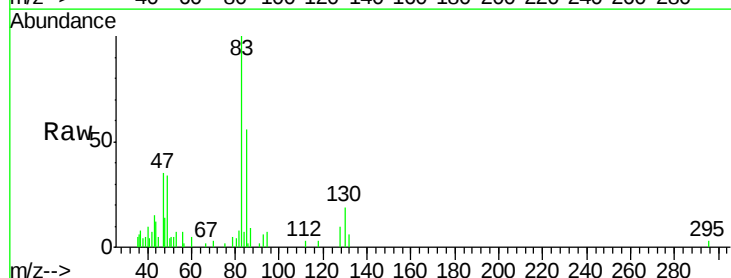
Manual Integrations
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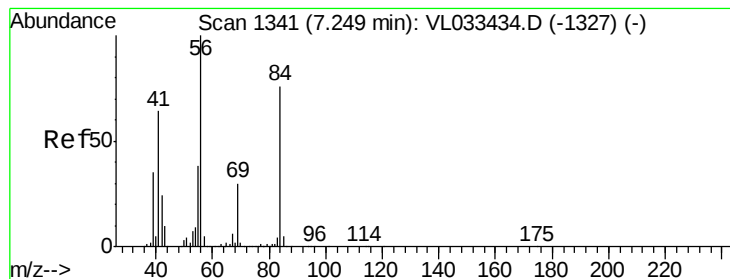
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#29
Chloroform
Concen: 0.101 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Tgt Ion	83	Resp	13739
Ion Ratio	Lower	Upper	
83	100		
85	56.5	52.6	79.0





#30

Cvclohexane

Concen: 0.126 ppbv m

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Instrument :

MSVOA_L

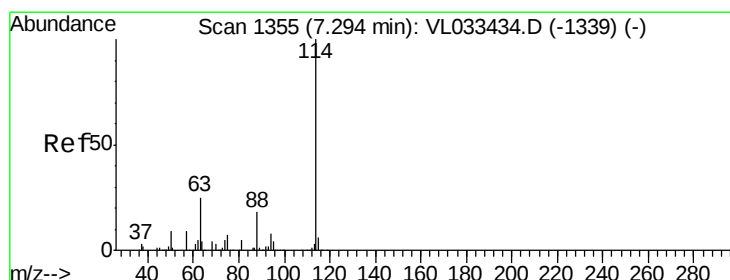
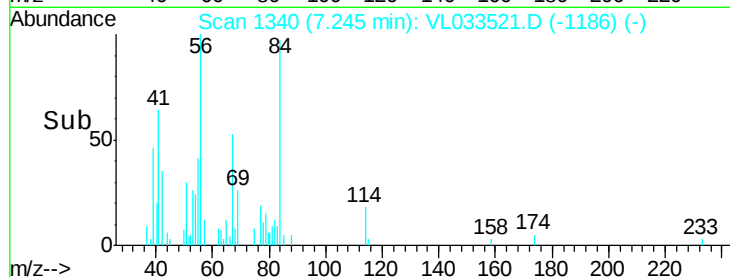
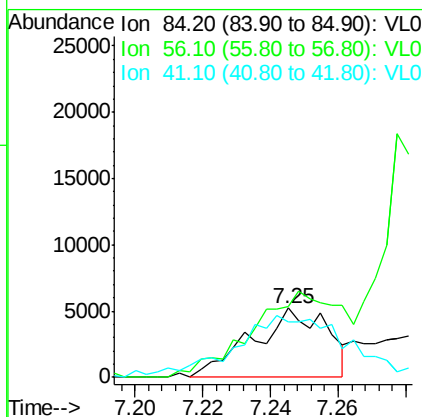
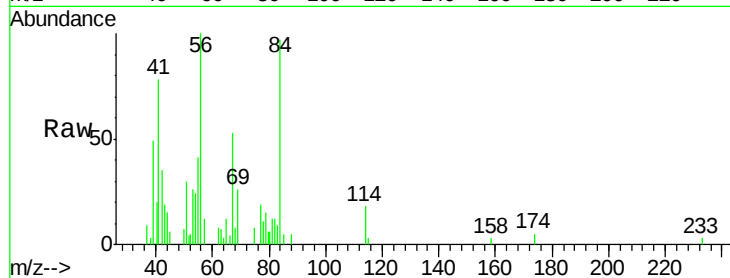
ClientSampleId :

SG-3-CAFETERIA

Tot Ion:	84	Resp:	7961
Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.7	164.5#
41	146.1	68.2	102.2#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

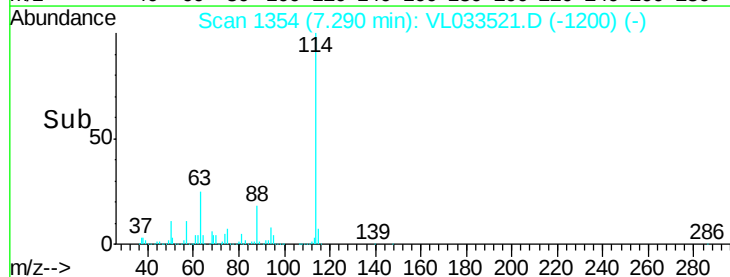
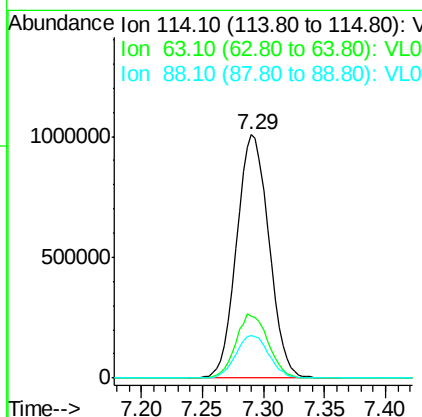
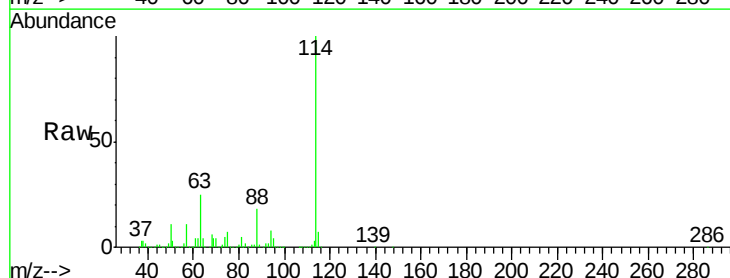
RT: 7.29 min Scan# 1354

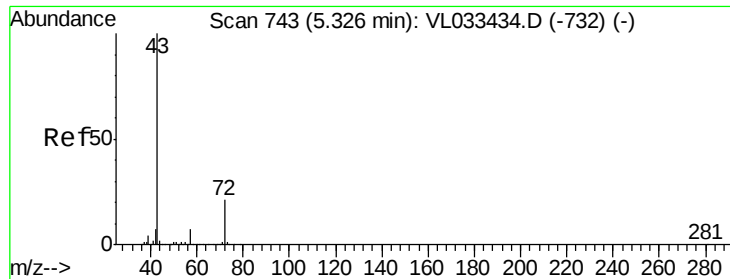
Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Tgt Ion:	114	Resp:	1844858
Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.5	32.3
88	18.0	14.5	21.7





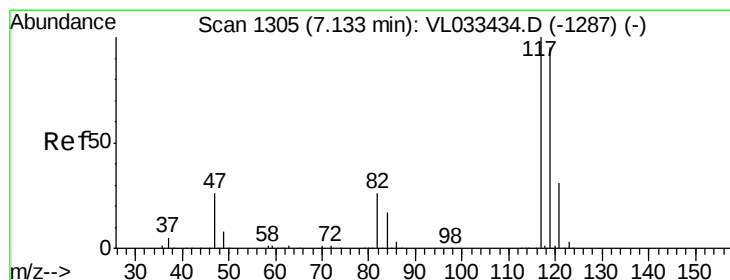
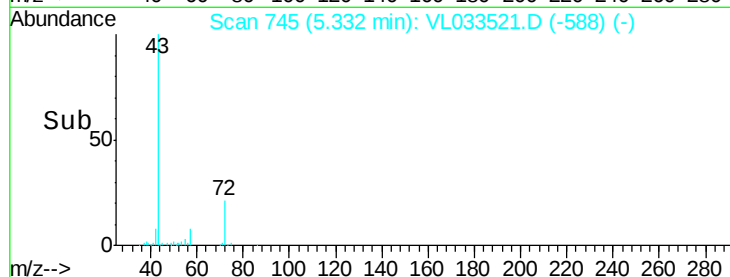
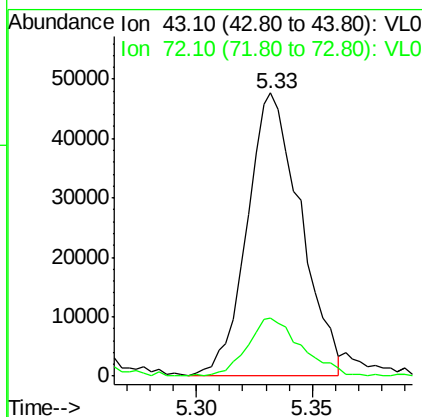
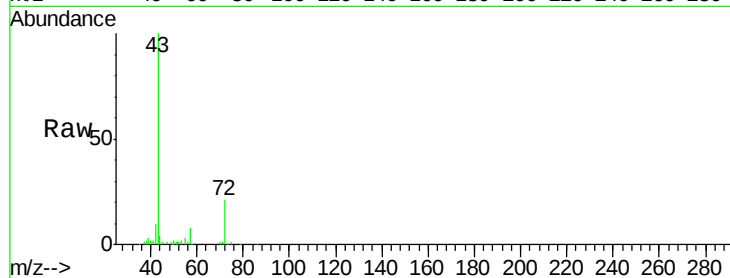
#34
2-Butanone
Concen: 0.684 ppbv
RT: 5.33 min Scan# 745
Delta R.T. 0.01 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIA

Tot Ion: 43 Resp: 75866
Ion Ratio Lower Upper
43 100
72 21.0 17.4 26.2

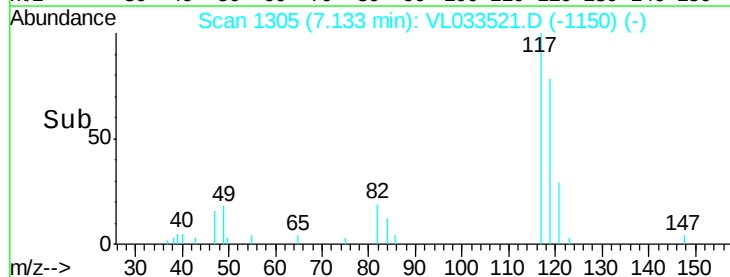
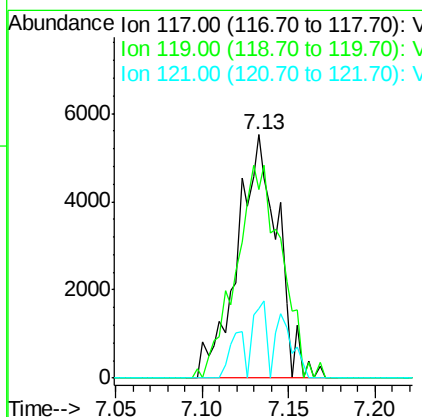
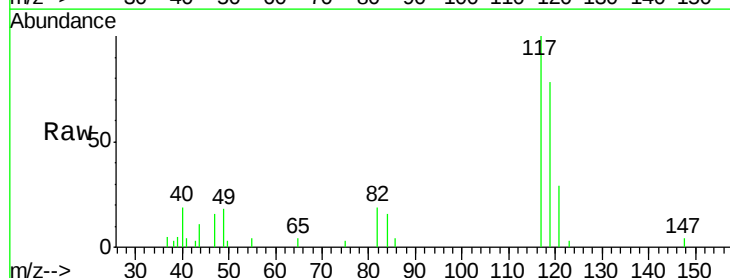
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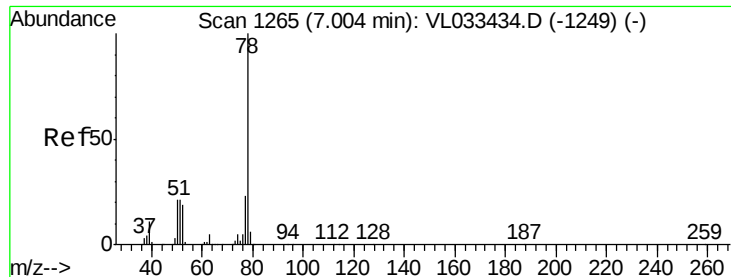
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#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Tgt Ion: 117 Resp: 8888
Ion Ratio Lower Upper
117 100
119 77.5 75.8 113.8
121 28.7 24.7 37.1





#36

Benzene

Concen: 0.486 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Instrument :

MSVOA_L

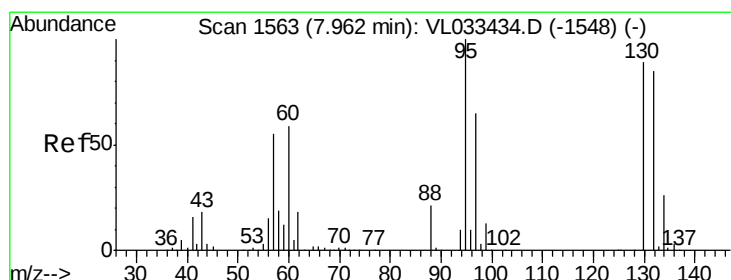
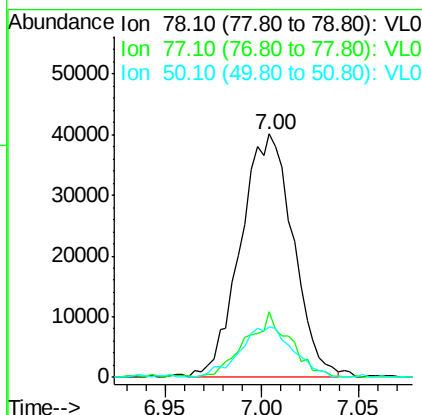
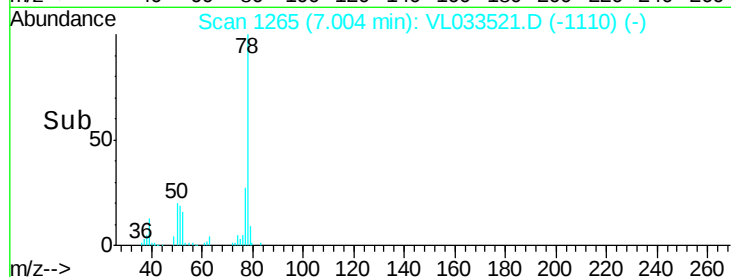
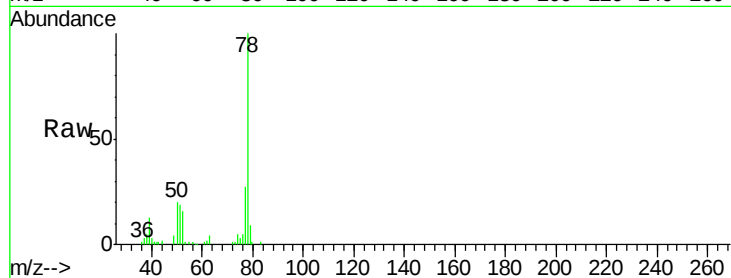
ClientSampleId :

SG-3-CAFETERIA

Tot Ion:	78	Resp:	75251
Ion	Ratio	Lower	Upper
78	100		
77	26.6	18.1	27.1
50	20.6	16.7	25.1

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#38

Trichloroethene

Concen: 0.529 ppbv m

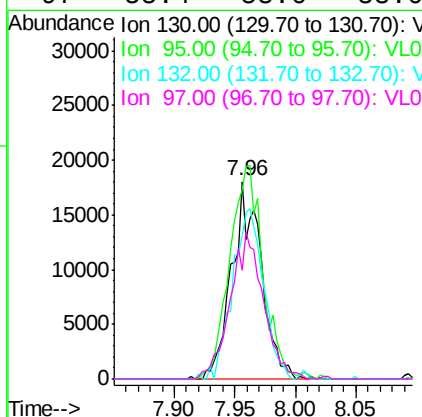
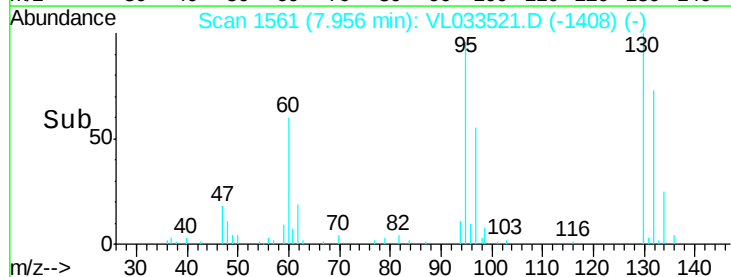
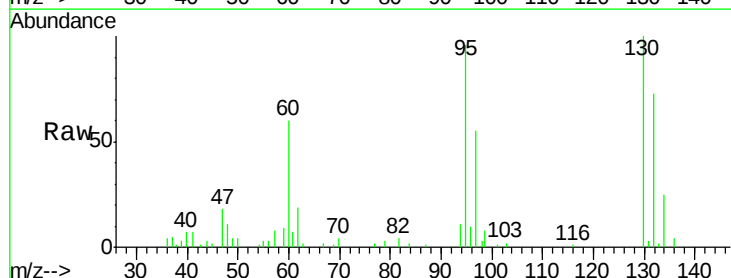
RT: 7.96 min Scan# 1561

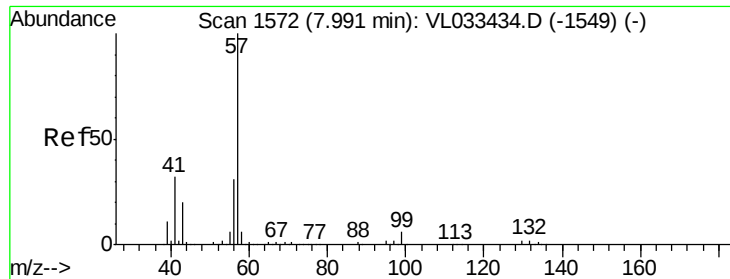
Delta R.T. -0.01 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Tgt Ion:	130	Resp:	30827
Ion	Ratio	Lower	Upper
130	100		
95	96.0	89.8	134.8
132	72.7	76.6	115.0#
97	55.4	58.6	88.0#





#44

2,2,4-Trimethylpentane

Concen: 0.160 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Instrument :

MSVOA_L

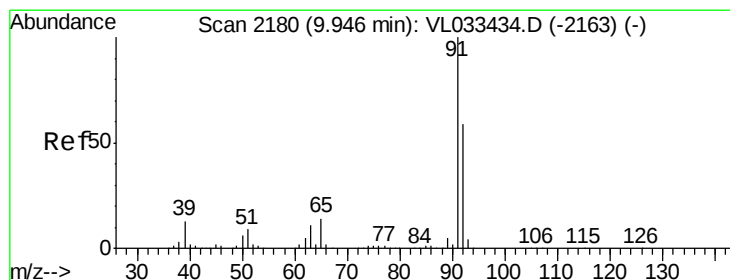
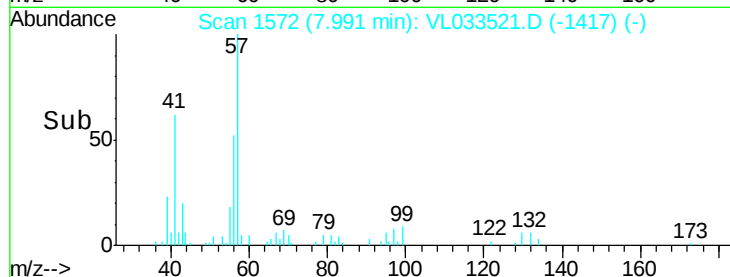
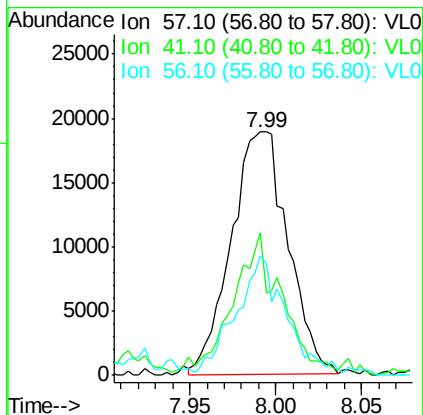
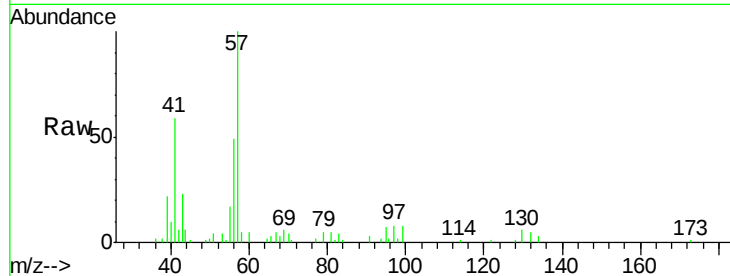
ClientSampleId :

SG-3-CAFETERIA

Tot Ion:	57	Resp:	43382
Ion	Ratio	Lower	Upper
57	100		
41	53.2	26.0	39.0#
56	46.5	24.6	37.0#

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#53

Toluene

Concen: 6.418 ppbv

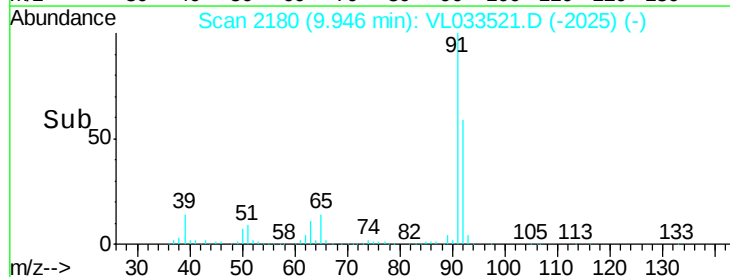
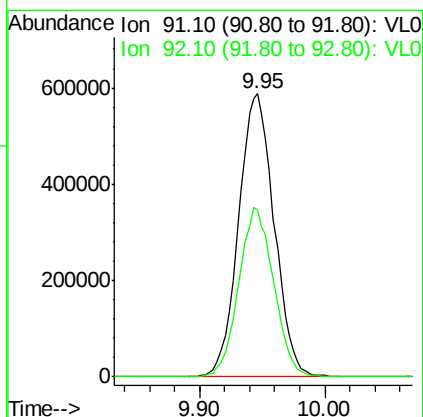
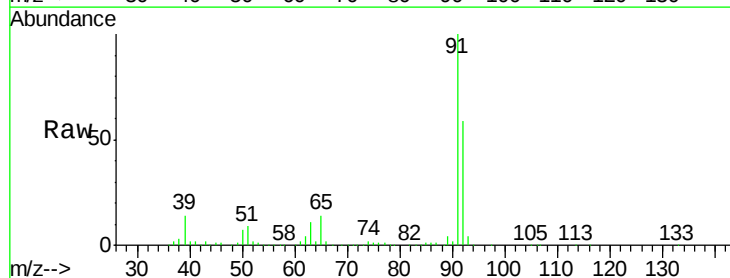
RT: 9.95 min Scan# 2180

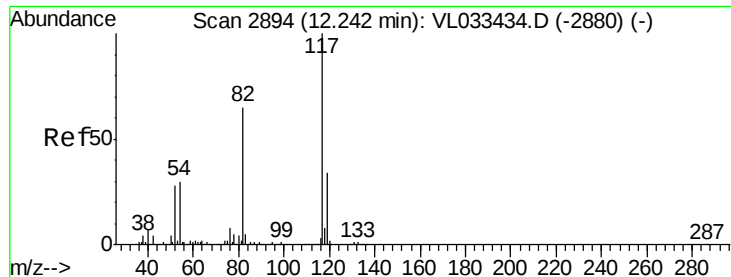
Delta R.T. -0.00 min

Lab File: VL033521.D

Acq: 30 Mar 2019 3:35

Tgt Ion:	91	Resp:	1154488
Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0





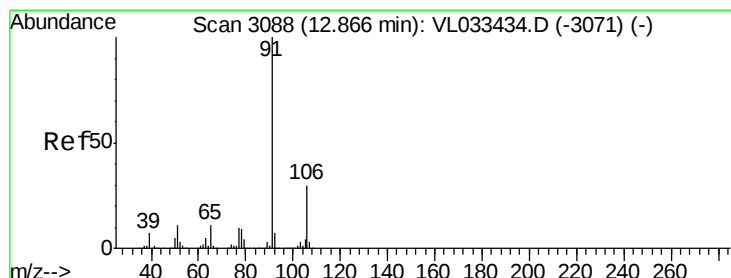
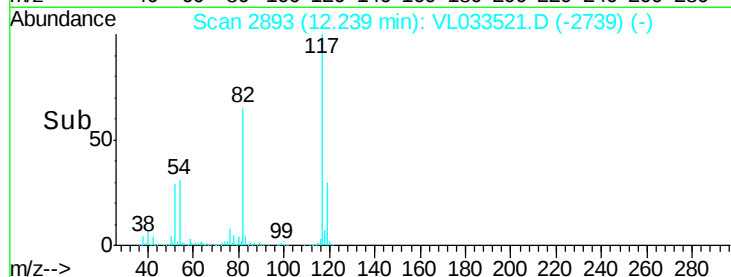
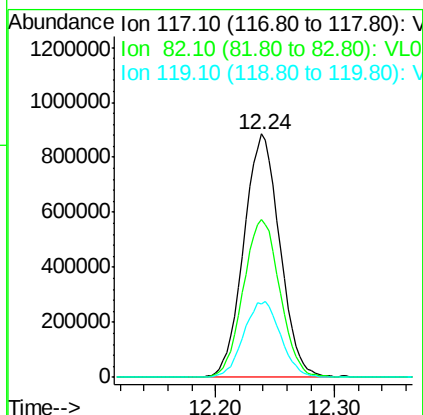
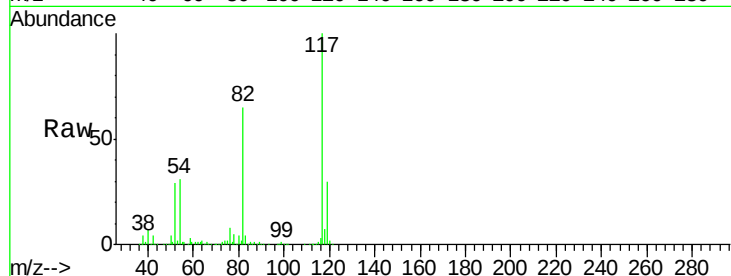
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIA

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.2	51.5	77.3
119	31.9	25.5	38.3

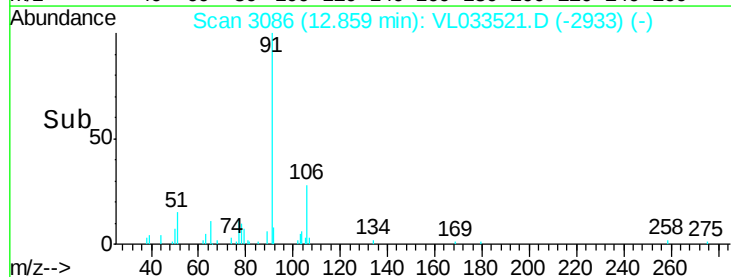
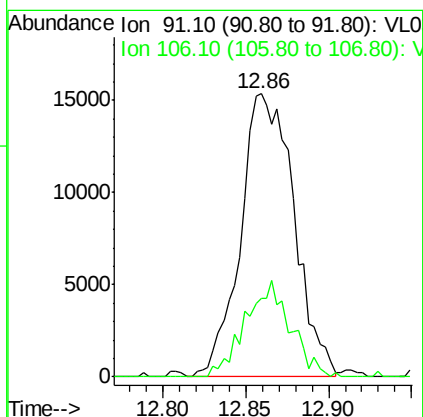
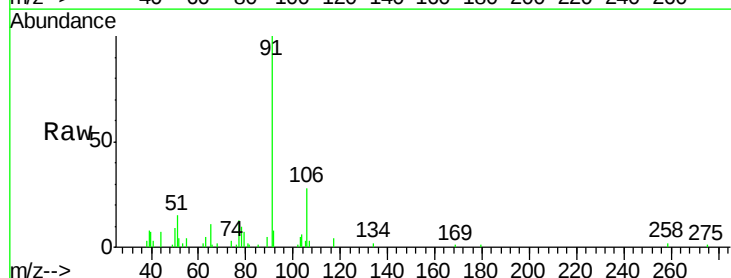
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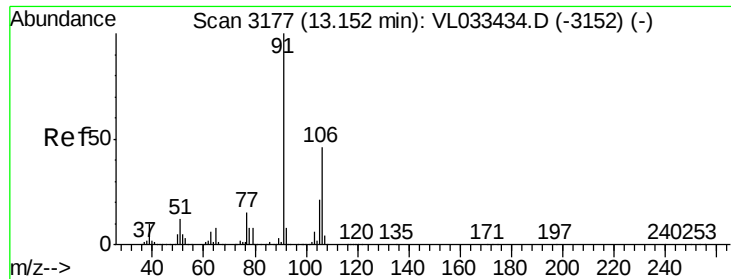
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#58
Ethyl Benzene
Concen: 0.138 ppbv m
RT: 12.86 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.0	23.8	35.6





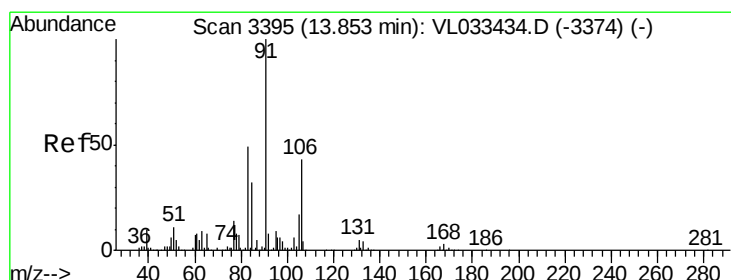
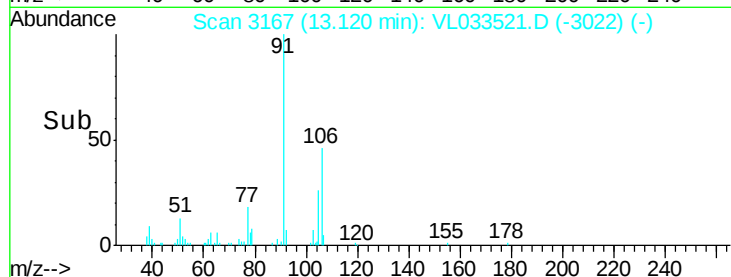
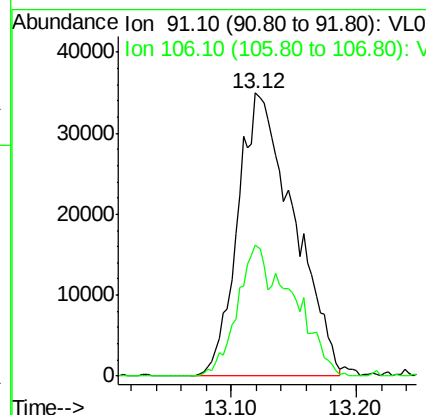
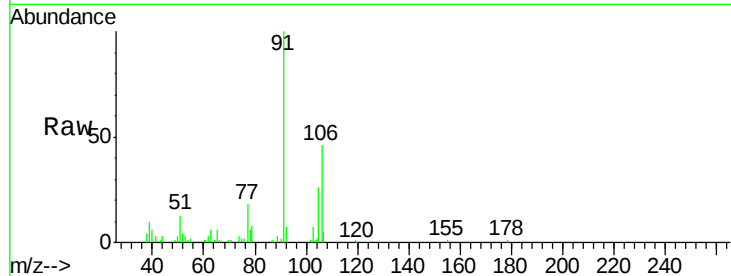
#59
m/p-Xylene
Concen: 0.489 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Instrument :
MSVOA_L
ClientSampleId :
SG-3-CAFETERIA

Tot Ion: 91 Resp: 108577
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

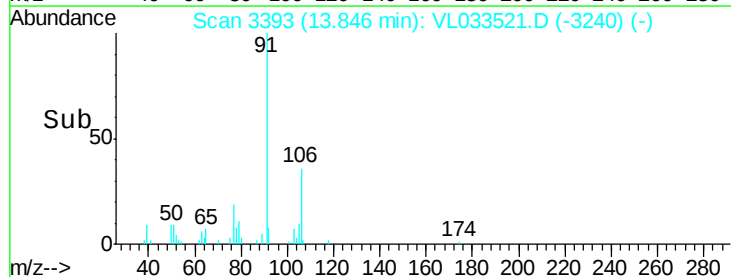
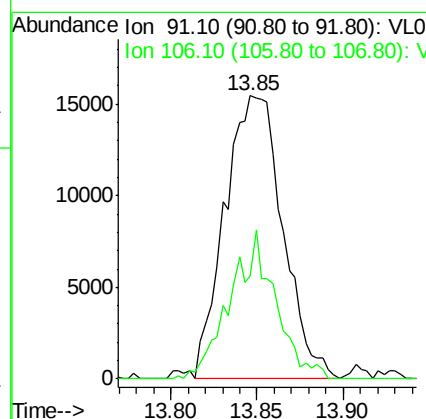
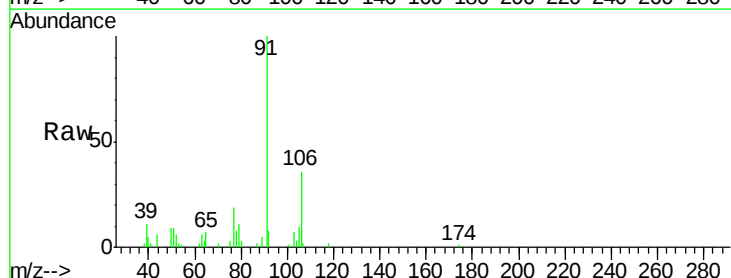
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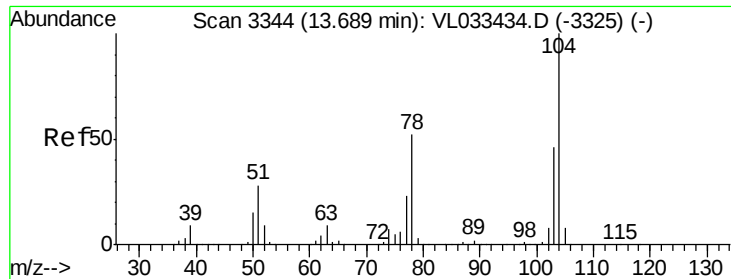
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#60
o-Xylene
Concen: 0.168 ppbv m
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033521.D
Acq: 30 Mar 2019 3:35

Tgt Ion: 91 Resp: 36105
Ion Ratio Lower Upper
91 100
106 40.6 21.4 64.3





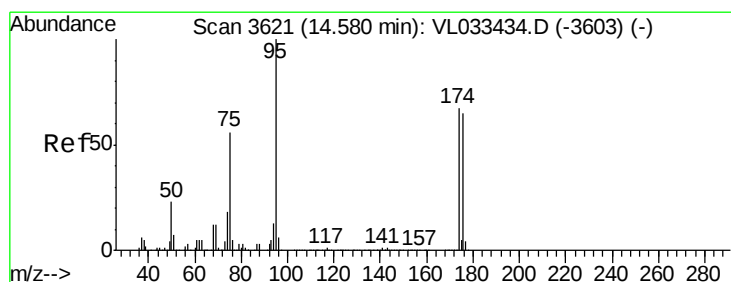
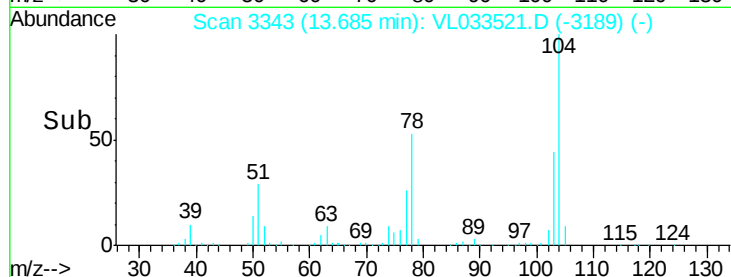
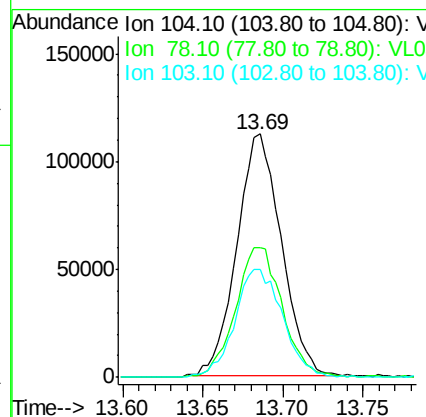
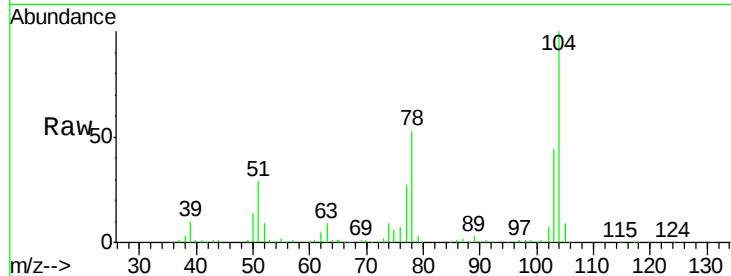
#61
 Stvrene
 Concen: 1.438 ppbv
 RT: 13.69 min Scan# 3343
 Delta R.T. -0.00 min
 Lab File: VL033521.D
 Acq: 30 Mar 2019 3:35

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3-CAFETERIA

Tot Ion:	104	Resp:	211662
Ion Ratio	Lower	Upper	
104	100		
78	57.3	43.2	64.8
103	48.6	37.8	56.8

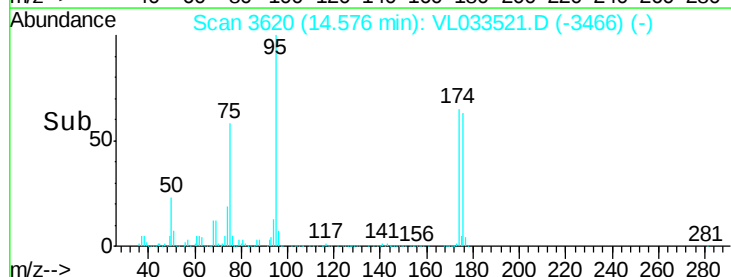
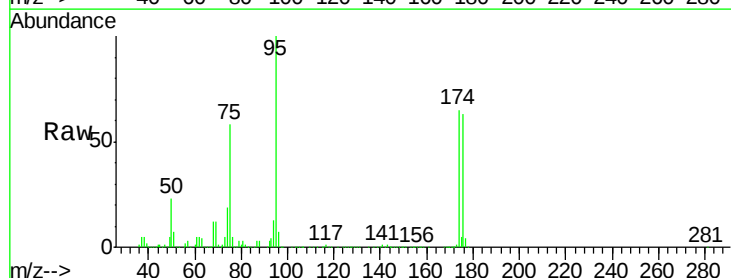
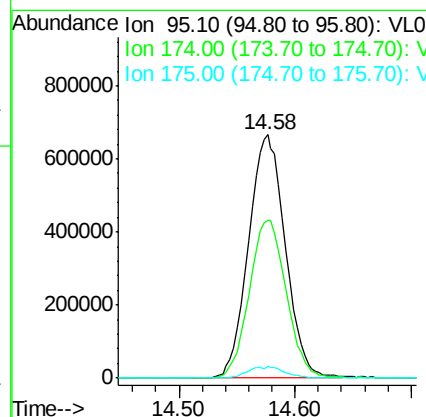
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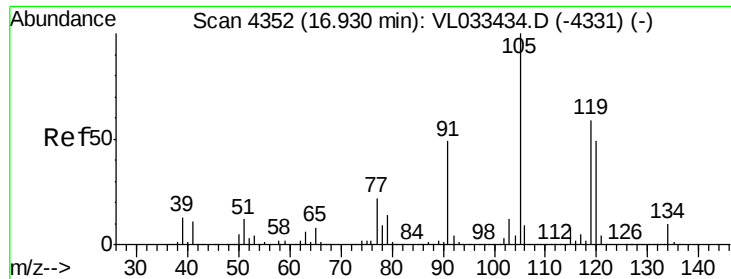
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.055 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033521.D
 Acq: 30 Mar 2019 3:35

Tgt Ion:	95	Resp:	1466057
Ion Ratio	Lower	Upper	
95	100		
174	65.4	52.9	79.3
175	4.8	3.8	5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.077 ppbv m
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033521.D
 Acq: 30 Mar 2019 3:35

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3-CAFETERIA

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	35.2	39.0	58.6#
91	9.0	40.0	60.0#
77	12.3	17.5	26.3#

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