

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035011.D
 Acq On : 13 May 2020 6:33
 Operator : SY/AP
 Sample : L2566-06 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Quant Time: May 13 08:43:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	826518	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	1944014	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	1835634	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1554588	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	5243	0.045	ppbv #	85
3) Chlorodifluoromethane	2.94	51	2688	0.028	ppbv	98
4) Chloromethane	3.09	50	1547	0.029	ppbv #	43
9) Propene	2.96	41	33633	0.821	ppbv	94
10) Heptane	8.11	43	312026	3.042	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	23293	0.270	ppbv	99
13) Ethanol	3.56	45	407356	30.148	ppbv	98
15) Acetone	3.80	43	3728753	34.124	ppbv	98
16) 1,3-Butadiene	3.30	39	6102	0.130	ppbv #	8
17) tert-Butyl alcohol	4.26	59	545682	5.613	ppbv	99
19) Isopropyl Alcohol	3.93	45	1606397	22.045	ppbv #	1
20) Methylene Chloride	4.31	84	23150	0.640	ppbv	96
21) Allyl Chloride	4.33	41	12677	0.205	ppbv #	29
22) trans-1,2-Dichloroethene	4.85	96	53747	1.452	ppbv	97
23) Vinyl Acetate	5.03	43	222664	1.607	ppbv #	7
24) 1,1-Dichloroethane	4.98	63	63405	0.594	ppbv	97
25) Ethyl Acetate	5.66	43	138650	0.755	ppbv #	81
26) Hexane	5.66	57	171539	2.156	ppbv #	45
27) Carbon Disulfide	4.51	76	1995	0.021	ppbv #	63
28) Methyl tert-Butyl Ether	5.01	73	9099	0.075	ppbv #	53
29) Chloroform	5.73	83	898668	6.902	ppbv	97
30) Cyclohexane	7.12	84	49579	0.807	ppbv	95
31) cis-1,2-Dichloroethene	5.53	61	496808	6.399	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	31058	0.264	ppbv	94
34) 2-Butanone	5.22	43	127128	1.052	ppbv	100
36) Benzene	6.88	78	11320	0.071	ppbv #	86
38) Trichloroethene	7.83	130	1499307	24.147	ppbv	99
39) 1,2-Dichloropropane	7.16	63	513637	7.994	ppbv #	23
40) 1,4-Dioxane	7.84	88	6174	0.236	ppbv #	1
41) Tetrahydrofuran	6.04	42	53119	0.835	ppbv	98
42) Bromodichloromethane	7.78	83	2934	0.022	ppbv #	40
44) 2,2,4-Trimethylpentane	7.86	57	365283	1.282	ppbv #	84
50) 4-Methyl-2-Pentanone	8.76	43	56713	0.329	ppbv #	66
51) 2-Hexanone	10.12	43	1075793	7.983	ppbv #	29
52) Tetrachloroethene	11.24	164	3023801	53.057	ppbv	96
53) Toluene	9.81	91	652301	3.839	ppbv	97
57) Chlorobenzene	12.16	112	6236	0.043	ppbv #	27
58) Ethyl Benzene	12.72	91	444079	1.956	ppbv	95
59) m/p-Xylene	12.98	91	2191188	10.972	ppbv #	61
60) o-Xylene	13.73	91	502602	2.550	ppbv	95
61) Styrene	13.54	104	19599	0.157	ppbv #	24

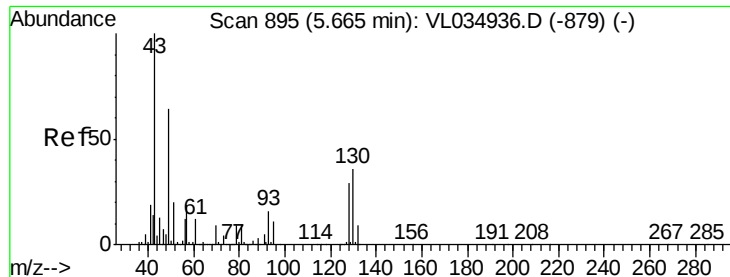
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.71	105	508728	1.729	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.70	83	44204	0.285	ppbv #	25
64) n-propylbenzene	15.60	120	2592	0.034	ppbv #	1
72) 4-Ethyltoluene	15.86	105	32147	0.146	ppbv #	55
80) Naphthalene,2-methyl-	25.01	142	38439	0.860	ppbv #	17

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

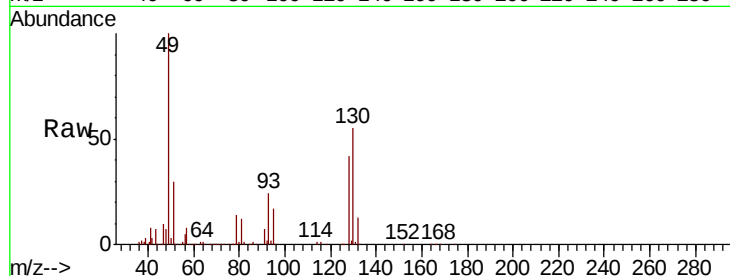
Tot Ion: 49 Resp: 826518

Ion Ratio Lower Upper

49 100

128 43.9 22.1 66.5

130 57.4 29.1 87.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

600000

500000

400000

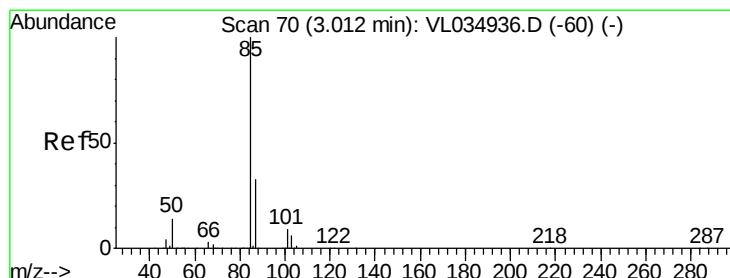
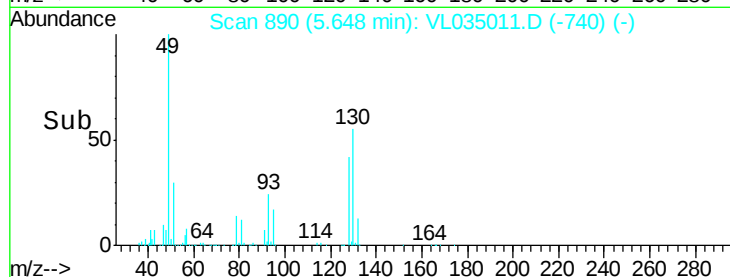
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL035011.D

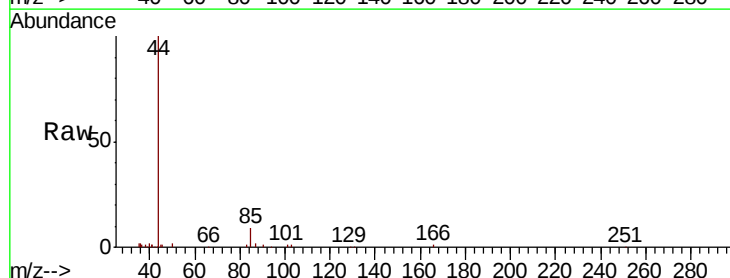
Acq: 13 May 2020 6:33

Tgt Ion: 85 Resp: 5243

Ion Ratio Lower Upper

85 100

87 24.0 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

5000

4000

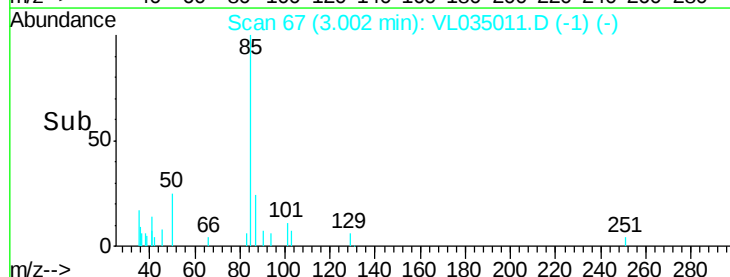
3000

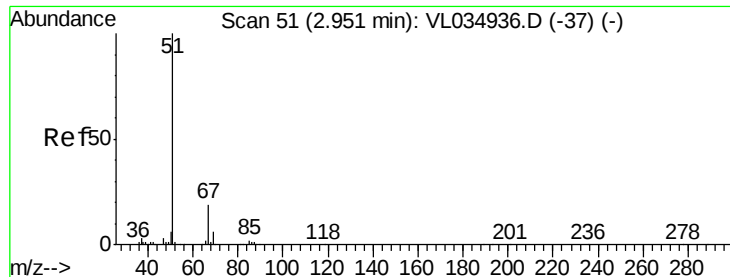
2000

1000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.028 ppbv

RT: 2.94 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

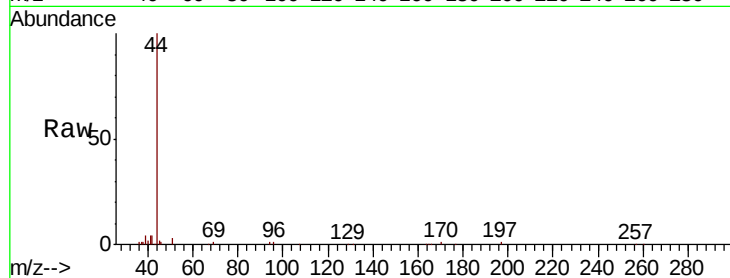
SG-3

Tot Ion: 51 Resp: 2688

Ion Ratio Lower Upper

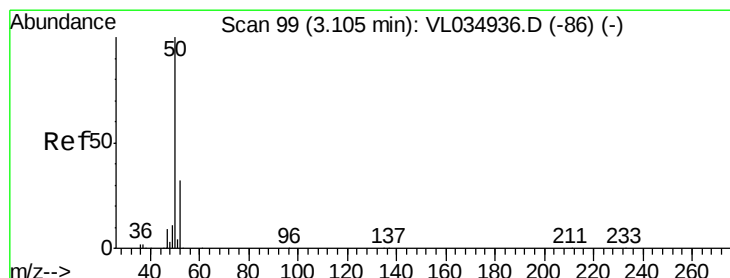
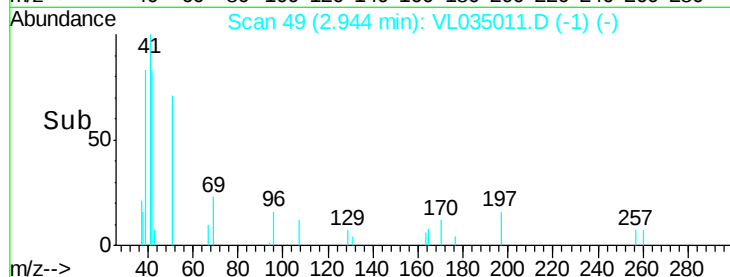
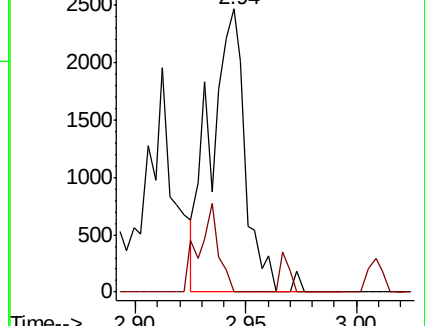
51 100

67 17.8 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.029 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.02 min

Lab File: VL035011.D

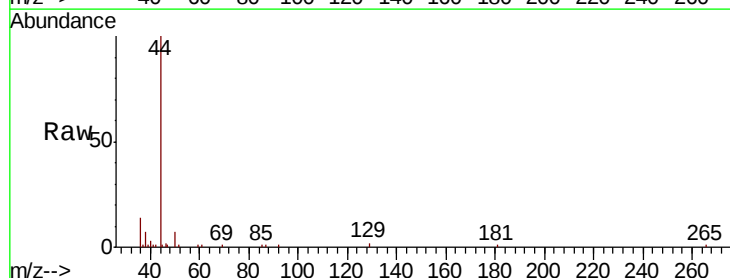
Acq: 13 May 2020 6:33

Tgt Ion: 50 Resp: 1547

Ion Ratio Lower Upper

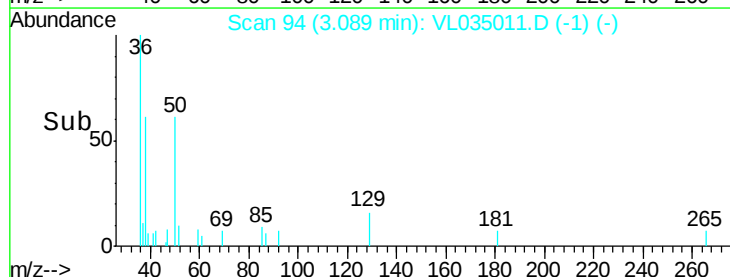
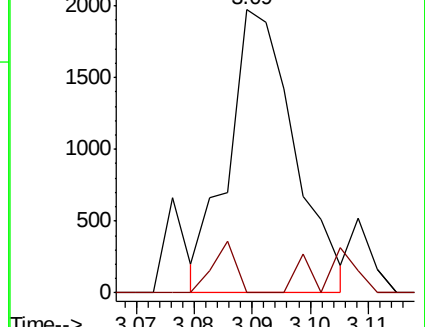
50 100

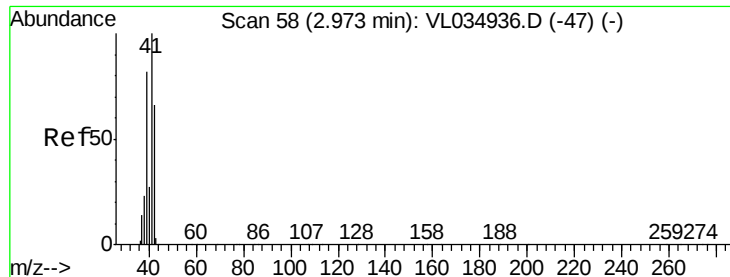
52 0.0 25.4 38.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.821 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.01 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampled :

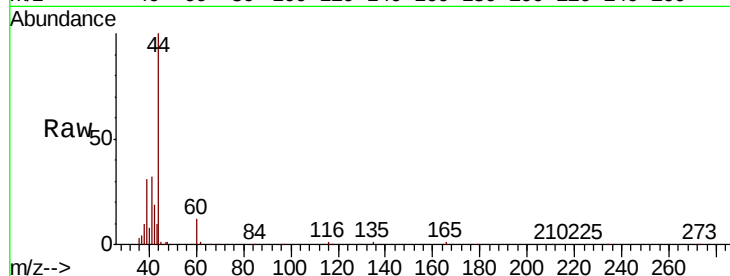
SG-3

Tot Ion: 41 Resp: 33633

Ion Ratio Lower Upper

41 100

42 63.1 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.96

25000

20000

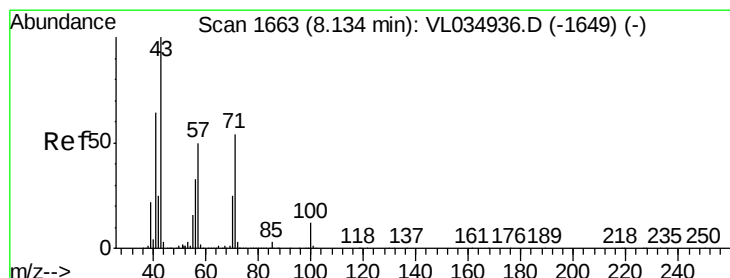
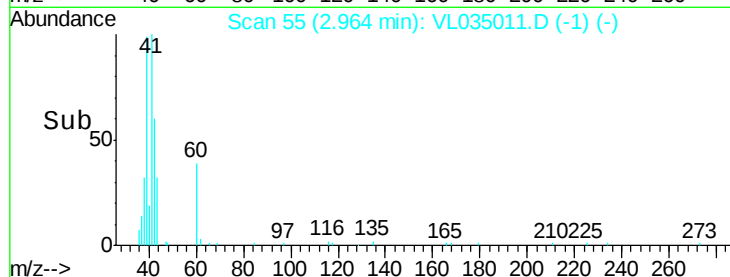
15000

10000

5000

0

Time-->



#10

Heptane

Concen: 3.042 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.02 min

Lab File: VL035011.D

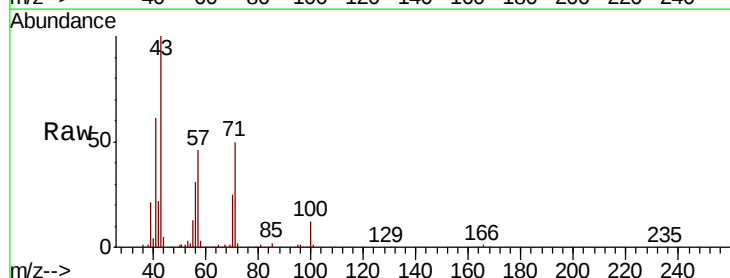
Acq: 13 May 2020 6:33

Tgt Ion: 43 Resp: 312026

Ion Ratio Lower Upper

43 100

57 50.4 41.1 61.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.11

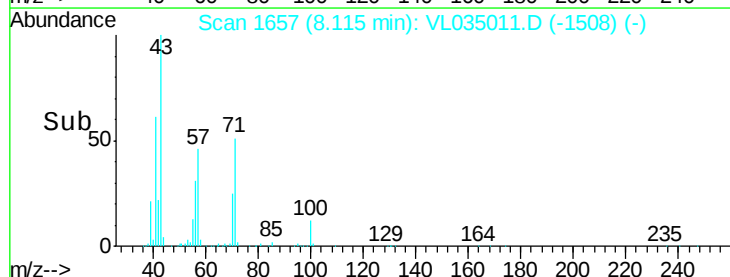
150000

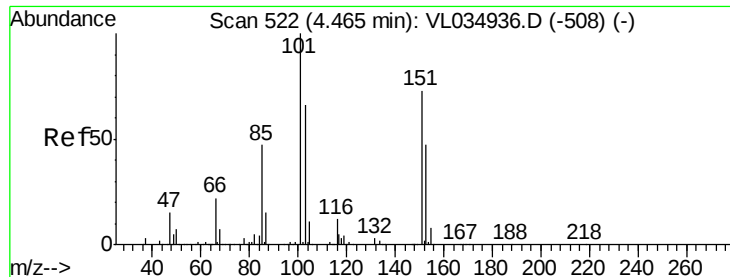
100000

50000

0

Time-->





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.270 ppbv

RT: 4.45 min Scan# 516

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

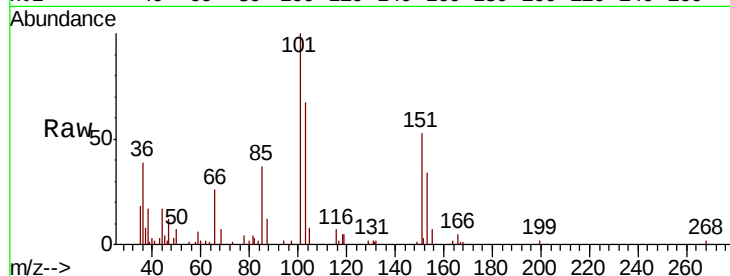
SG-3

Tot Ion:101 Resp: 23293

Ion Ratio Lower Upper

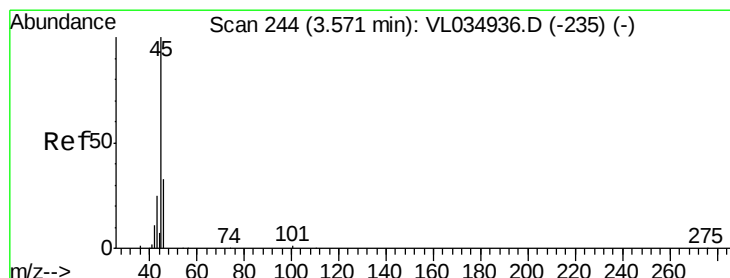
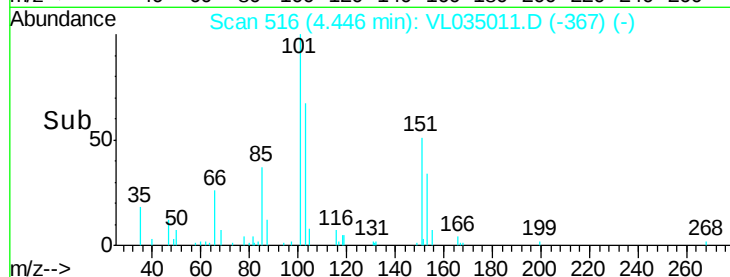
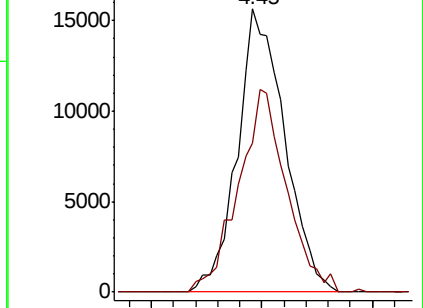
101 100

151 72.9 57.6 86.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 30.148 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.01 min

Lab File: VL035011.D

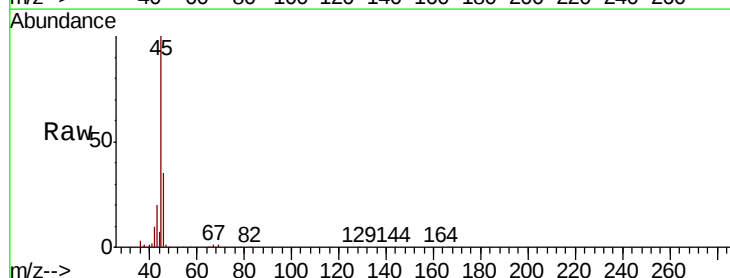
Acq: 13 May 2020 6:33

Tgt Ion: 45 Resp: 407356

Ion Ratio Lower Upper

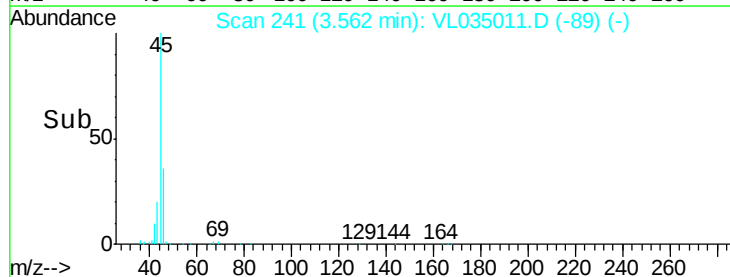
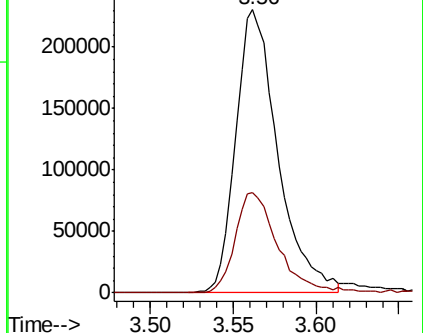
45 100

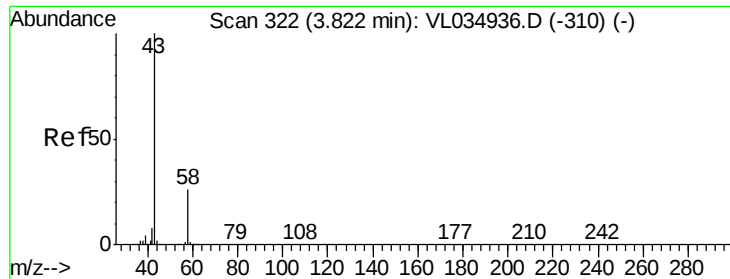
46 37.1 14.3 57.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 34.124 ppbv

RT: 3.80 min Scan# 316

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

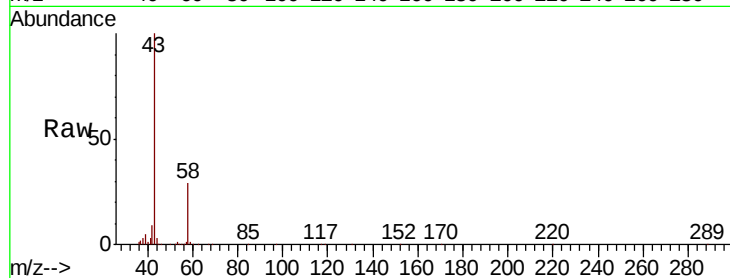
SG-3

Tot Ion: 43 Resp: 3728753

Ion Ratio Lower Upper

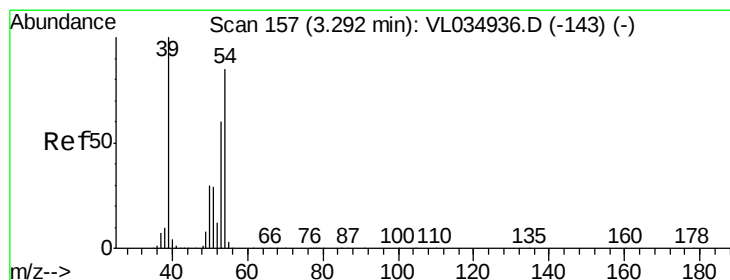
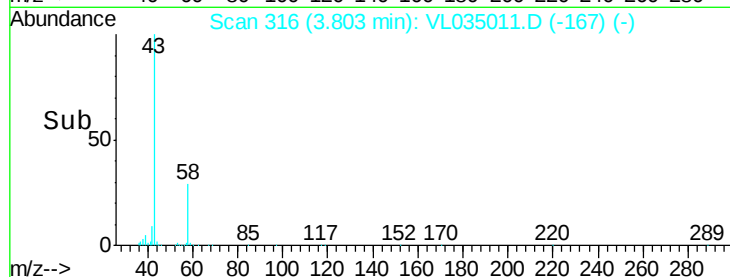
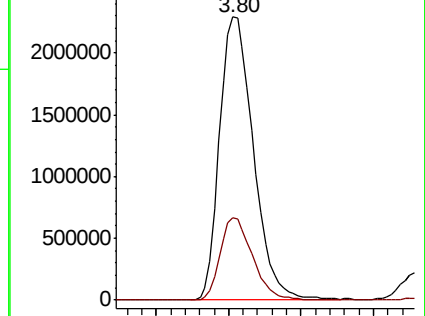
43 100

58 28.0 21.7 32.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.130 ppbv

RT: 3.30 min Scan# 161

Delta R.T. 0.01 min

Lab File: VL035011.D

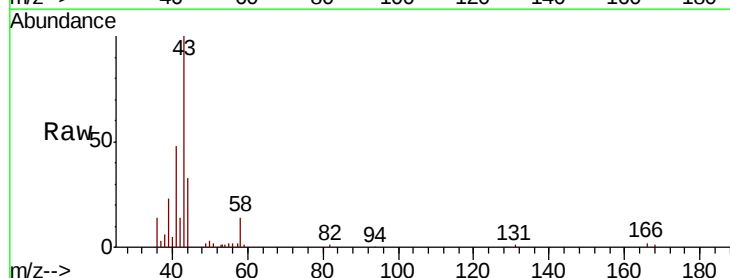
Acq: 13 May 2020 6:33

Tgt Ion: 39 Resp: 6102

Ion Ratio Lower Upper

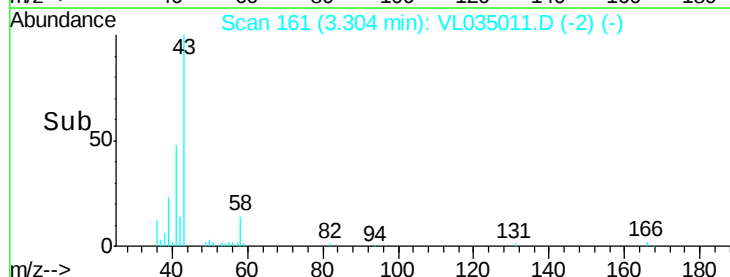
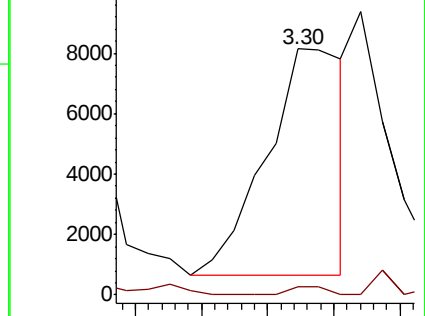
39 100

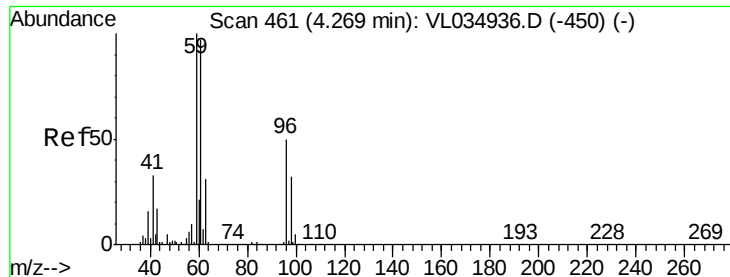
54 0.0 66.6 100.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



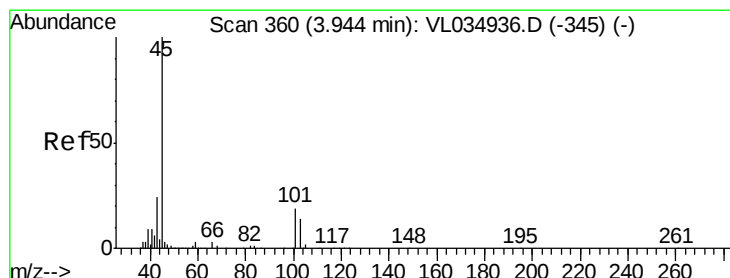
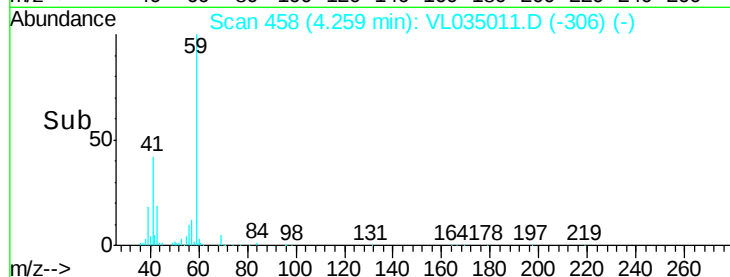
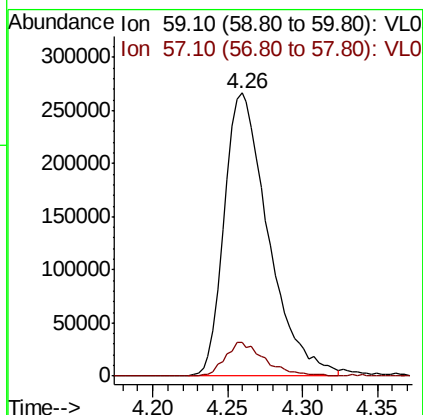
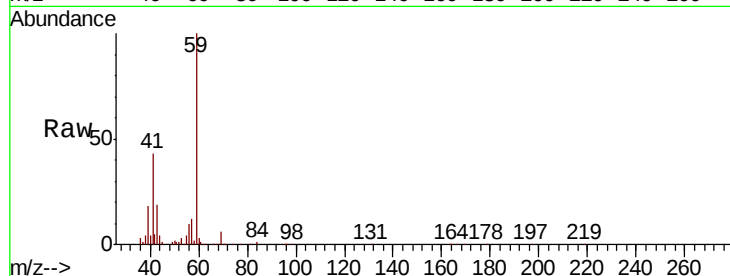


#17

tert-Butyl alcohol
Concen: 5.613 ppbv
RT: 4.26 min Scan# 458
Delta R.T. -0.01 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Instrument :
MSVOA_L
ClientSampleID :
SG-3

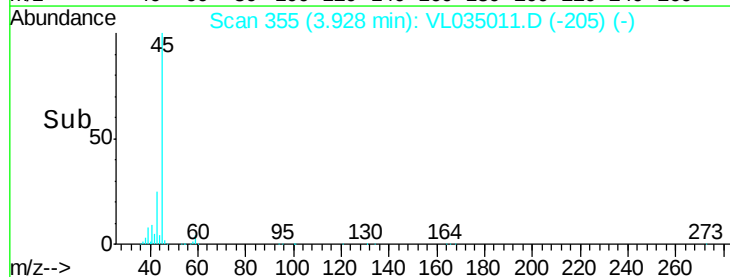
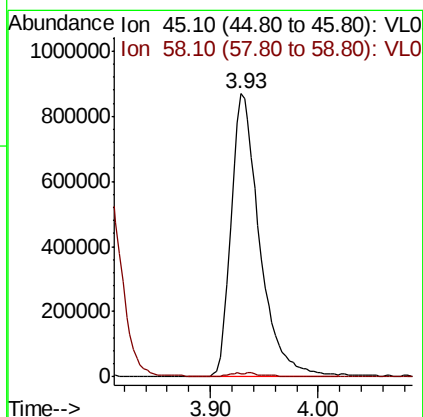
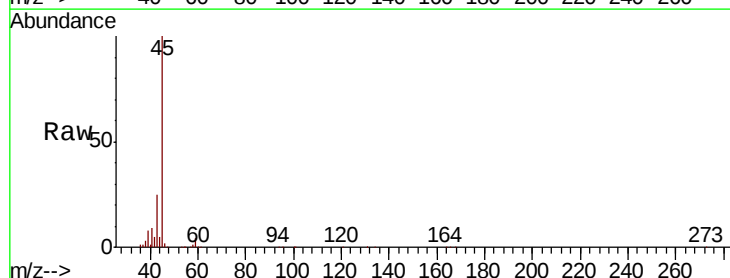
Tot Ion: 59 Resp: 545682
Ion Ratio Lower Upper
59 100
57 11.2 8.7 13.1

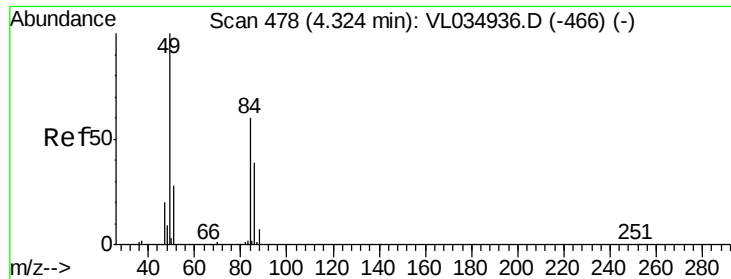


#19

Isopropyl Alcohol
Concen: 22.045 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion: 45 Resp: 1606397
Ion Ratio Lower Upper
45 100
58 64.9 1.7 2.5#

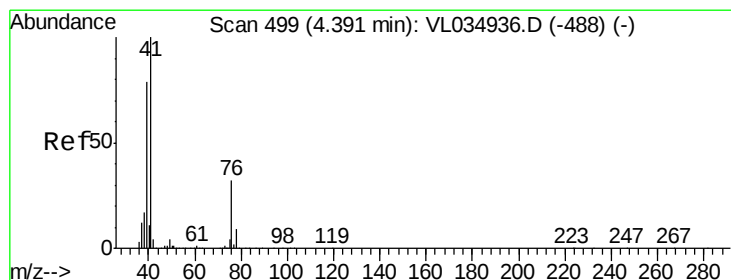
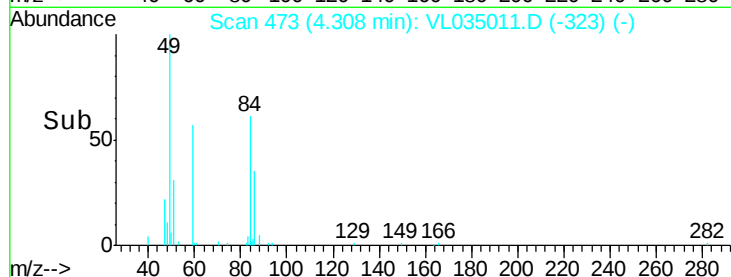
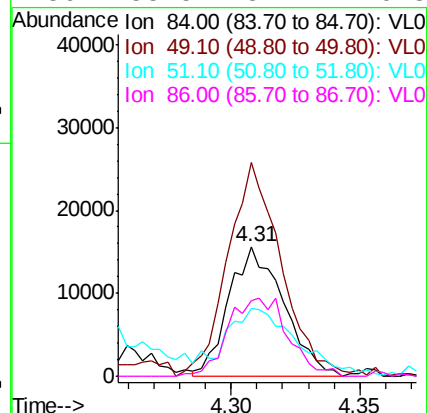
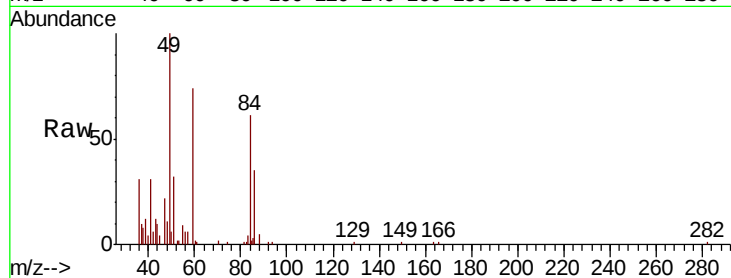




#20
Methvlene Chloride
Concen: 0.640 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

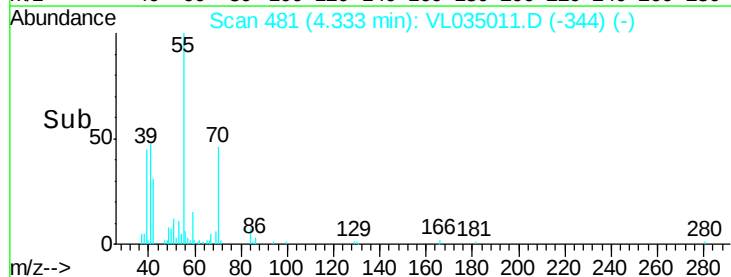
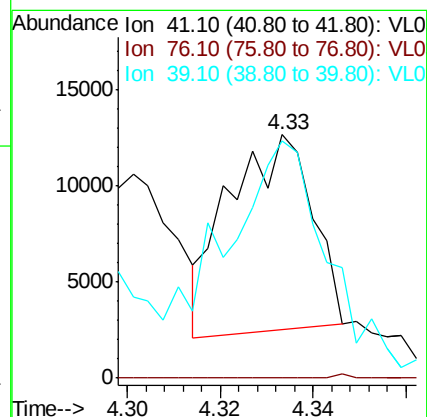
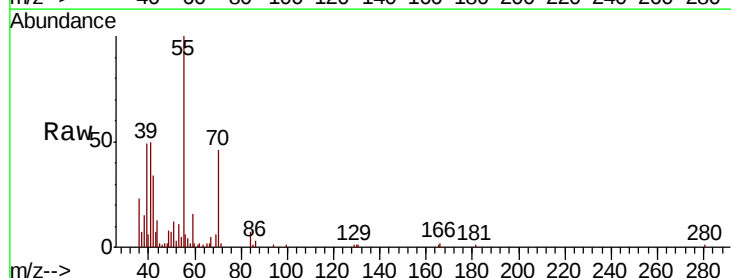
Instrument :
MSVOA_L
ClientSampleId :
SG-3

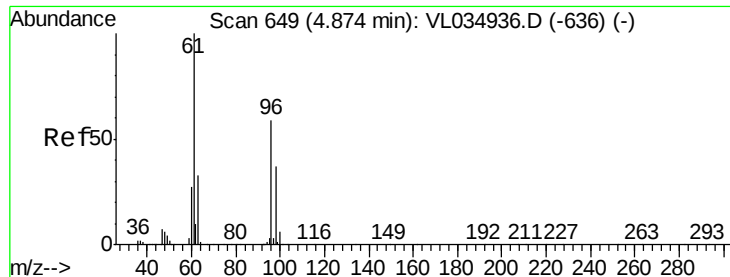
Tot Ion:	84	Resp:	23150
Ion	Ratio	Lower	Upper
84	100		
49	161.3	132.5	198.7
51	46.6	38.4	57.6
86	58.5	51.2	76.8



#21
Allyl Chloride
Concen: 0.205 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.06 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion:	41	Resp:	12677
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.6	35.4#
39	144.1	61.9	92.9#





#22

trans-1,2-Dichloroethene

Concen: 1.452 ppbv

RT: 4.85 min Scan# 643

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

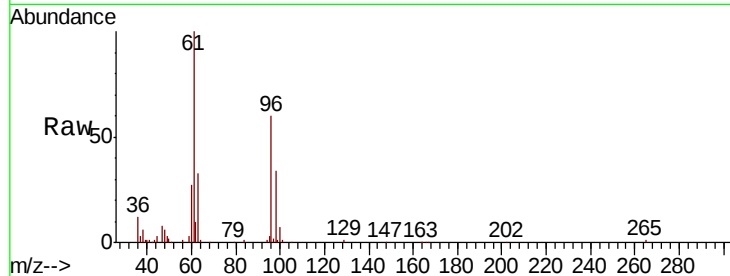
Tot Ion: 96 Resp: 53747

Ion Ratio Lower Upper

96 100

61 167.4 135.3 202.9

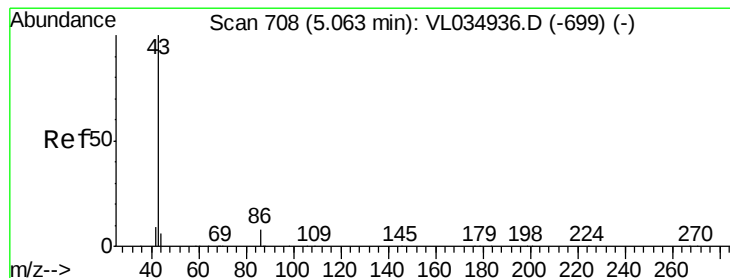
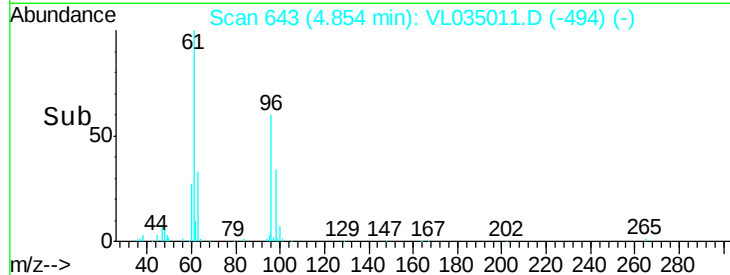
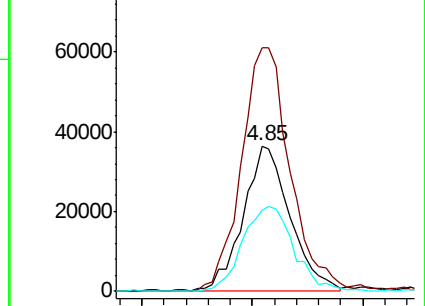
98 56.2 50.4 75.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 1.607 ppbv

RT: 5.03 min Scan# 697

Delta R.T. -0.04 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Tgt Ion: 43 Resp: 222664

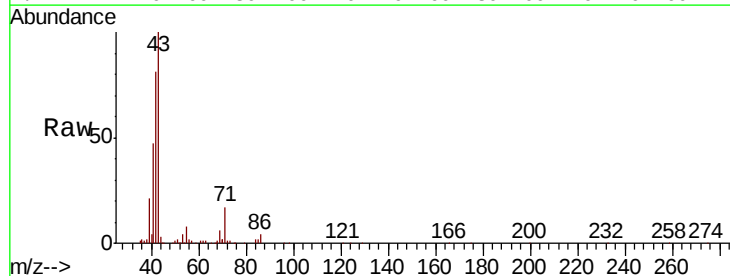
Ion Ratio Lower Upper

43 100

86 3.4 5.5 8.3#

42 82.0 8.0 12.0#

44 1.6 4.5 6.7#

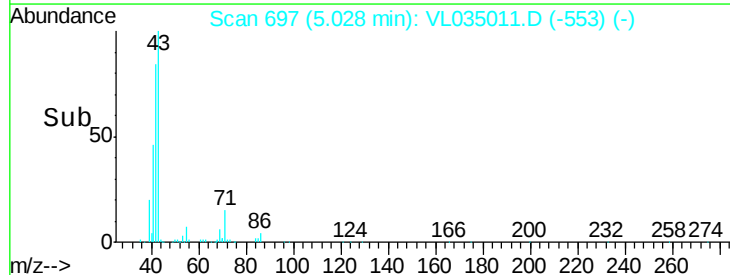
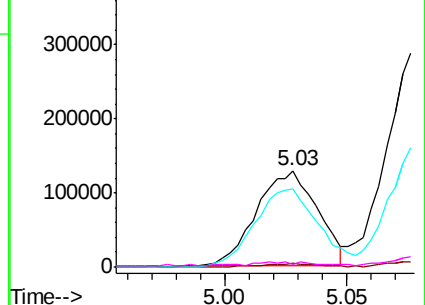


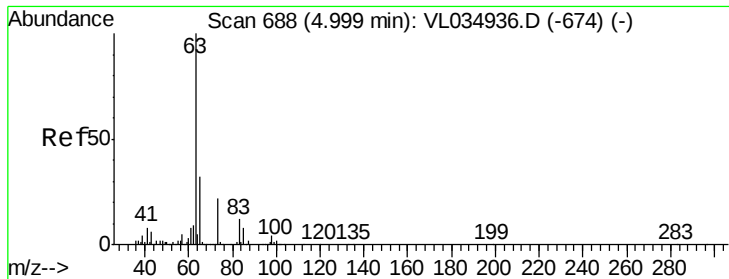
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.594 ppbv

RT: 4.98 min Scan# 683

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

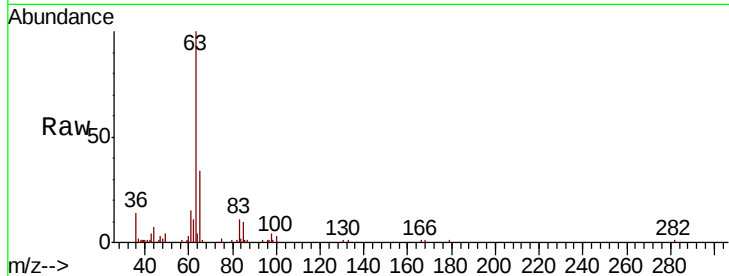
Tot Ion: 63 Resp: 63405

Ion Ratio Lower Upper

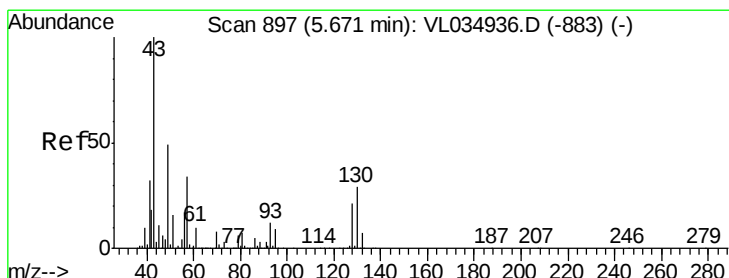
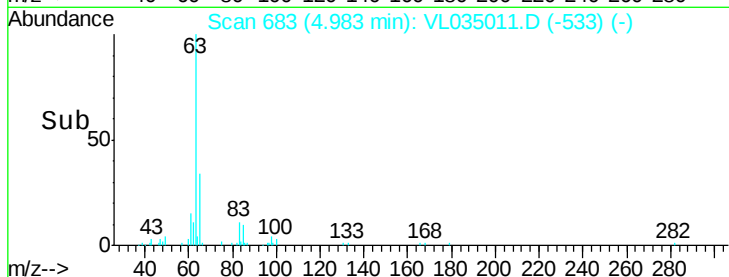
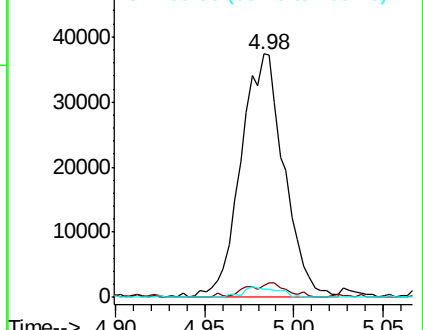
63 100

98 5.0 2.0 6.0

100 3.2 1.1 3.5



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.755 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Tgt Ion: 43 Resp: 138650

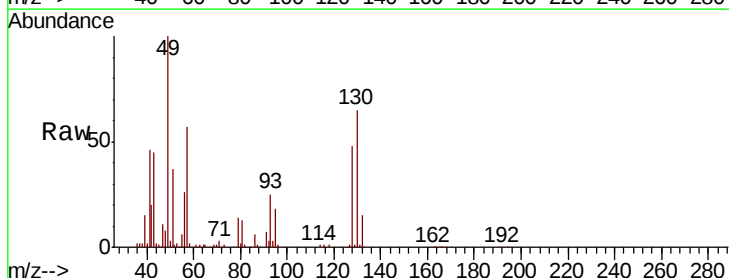
Ion Ratio Lower Upper

43 100

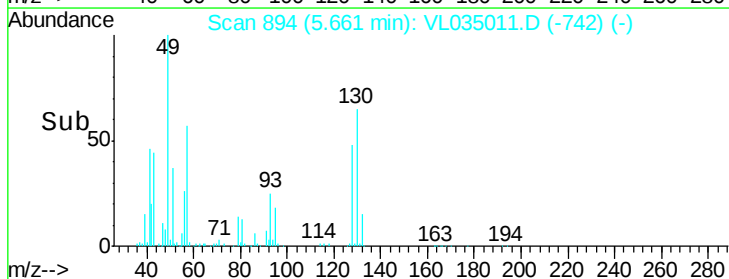
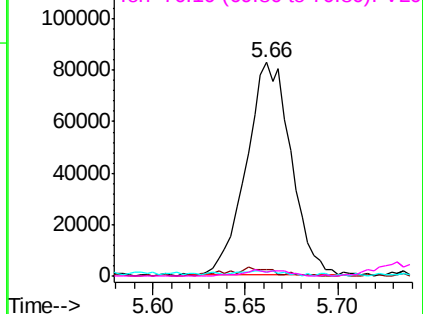
45 4.5 8.1 12.1#

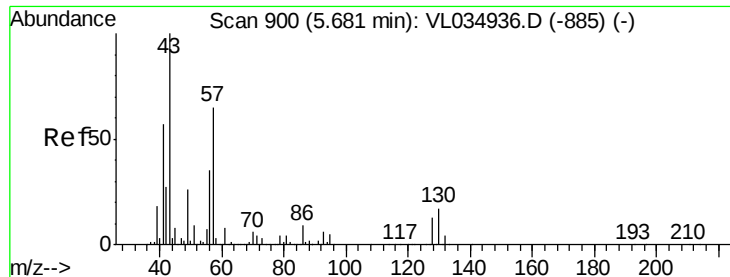
61 0.0 7.8 11.8#

70 2.8 6.0 9.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 2.156 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion: 57 Resp: 171539

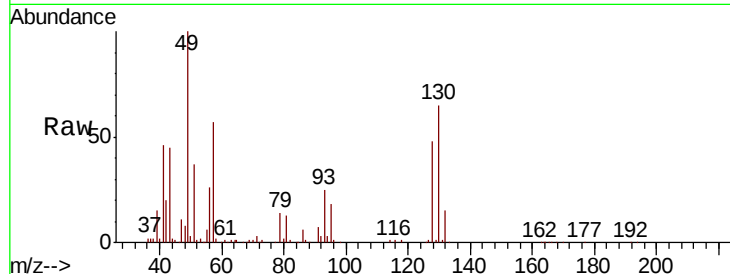
Ion Ratio Lower Upper

57 100

41 88.1 72.7 109.1

43 82.9 182.1 273.1#

56 52.0 42.2 63.2

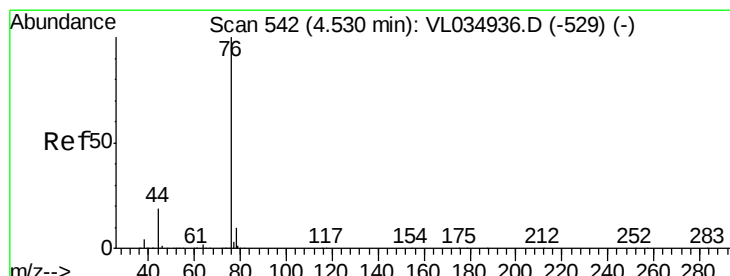
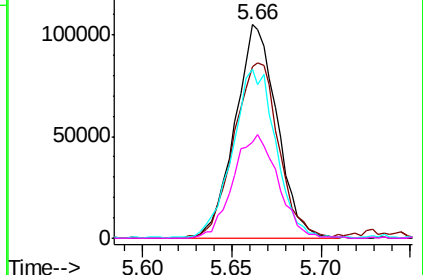
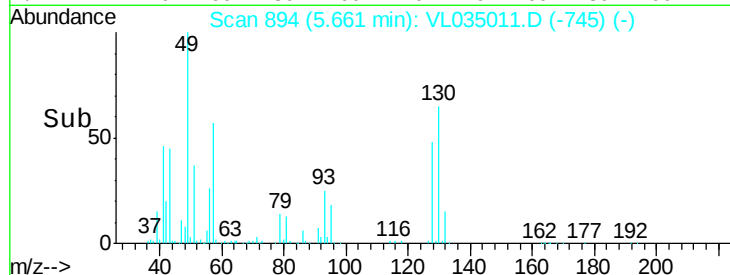


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.021 ppbv

RT: 4.51 min Scan# 537

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

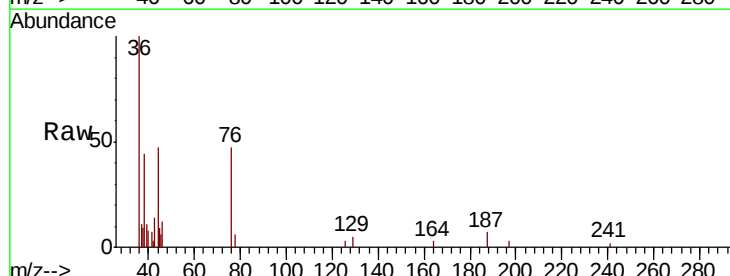
Tgt Ion: 76 Resp: 1995

Ion Ratio Lower Upper

76 100

44 0.0 15.2 22.8#

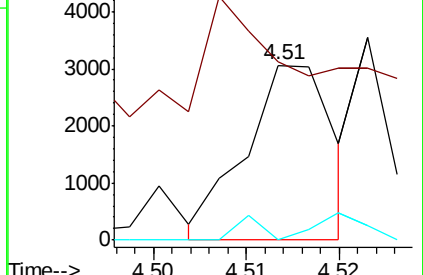
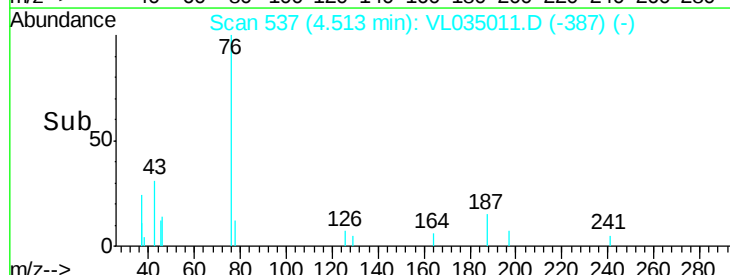
78 0.0 7.7 11.5#

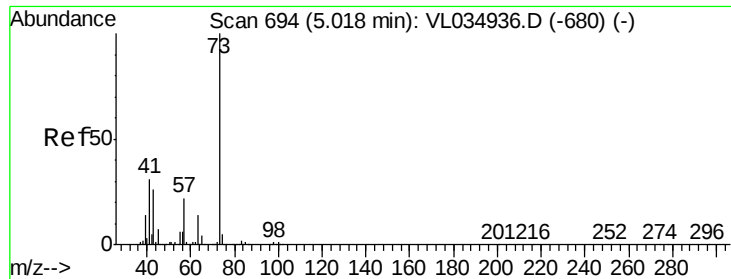


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



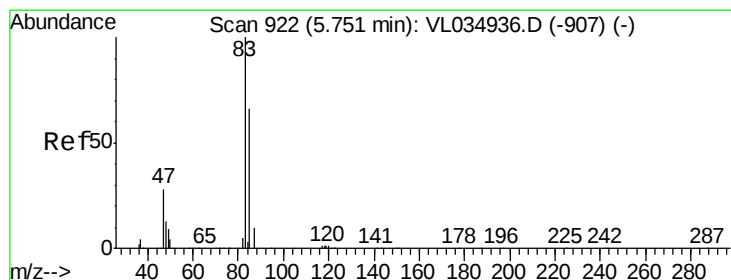
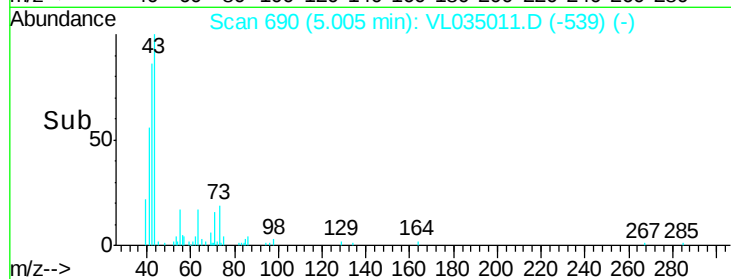
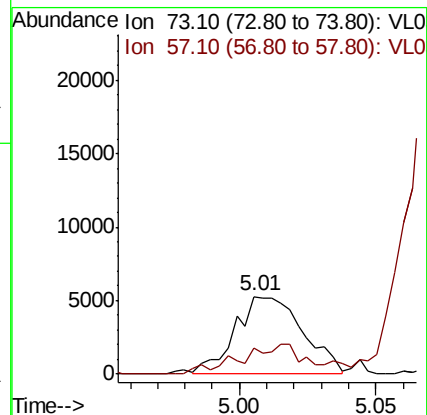
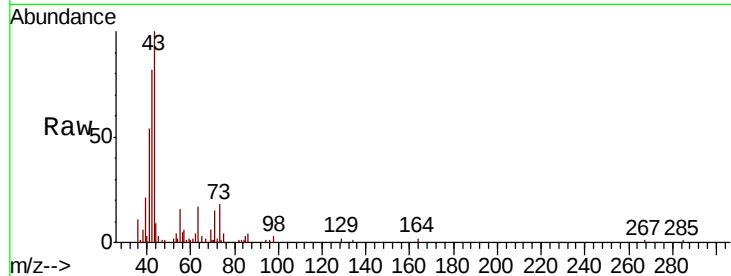


#28

Methvl tert-Butvl Ether
 Concen: 0.075 ppbv
 RT: 5.01 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VL035011.D
 Acq: 13 May 2020 6:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

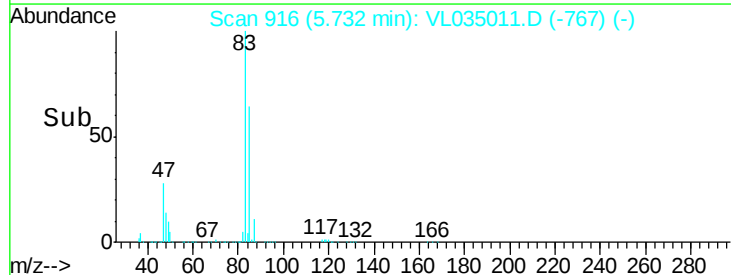
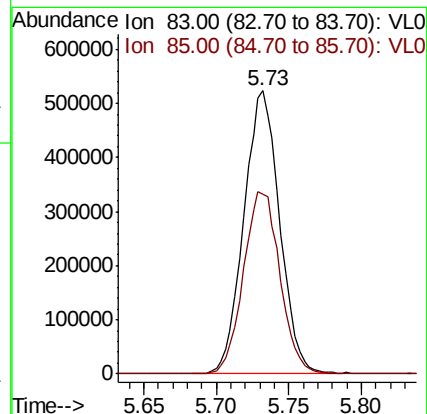
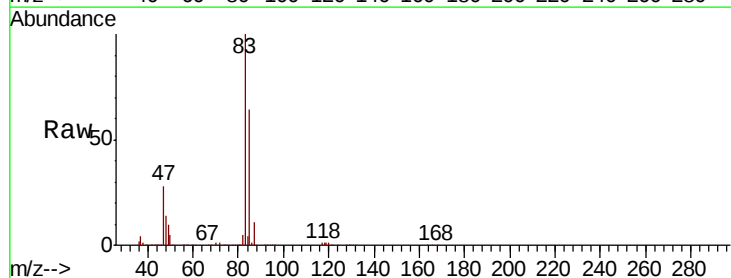
Tot Ion: 73 Resp: 9099
 Ion Ratio Lower Upper
 73 100
 57 0.0 18.3 27.5#

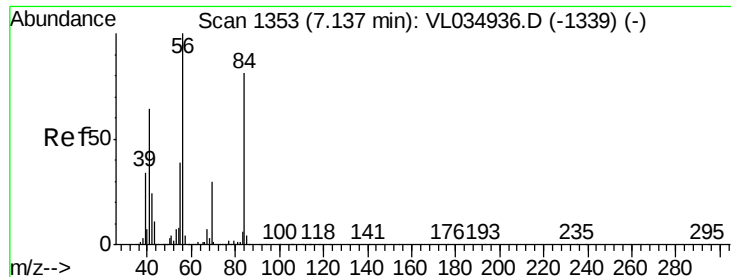


#29

Chloroform
 Concen: 6.902 ppbv
 RT: 5.73 min Scan# 916
 Delta R.T. -0.02 min
 Lab File: VL035011.D
 Acq: 13 May 2020 6:33

Tgt Ion: 83 Resp: 898668
 Ion Ratio Lower Upper
 83 100
 85 63.7 53.0 79.6

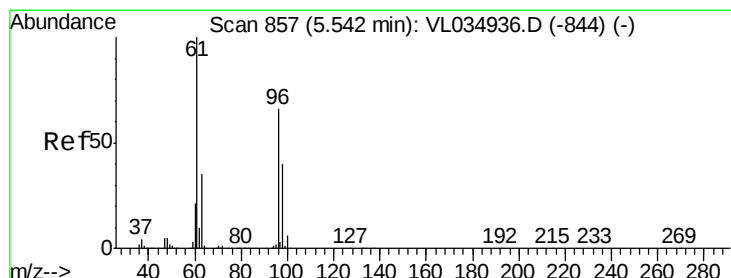
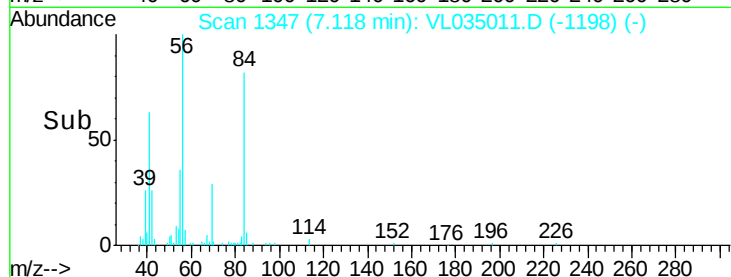
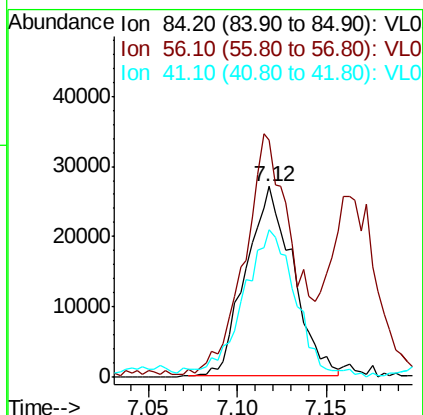
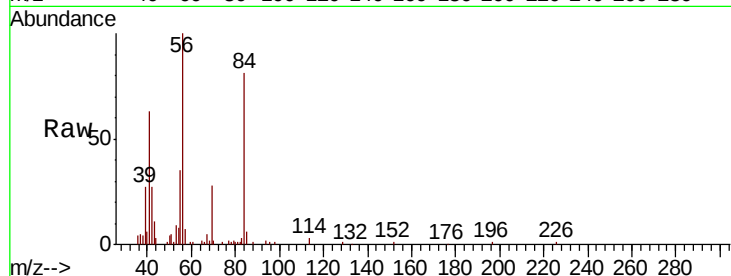




#30
Cvclohexane
Concen: 0.807 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

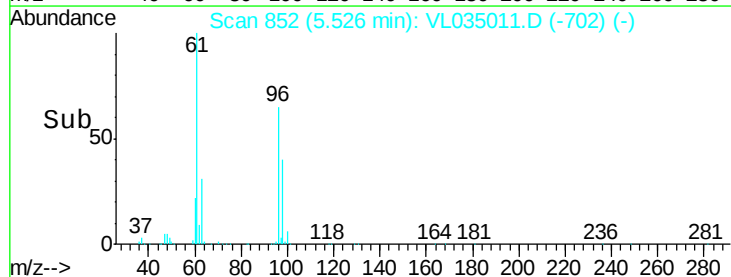
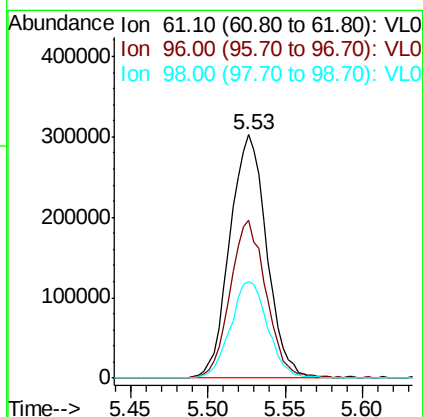
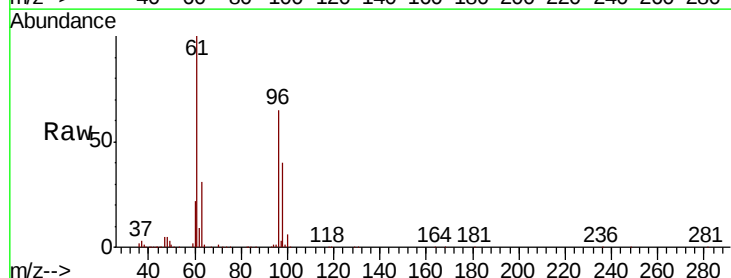
Instrument :
MSVOA_L
ClientSampleId :
SG-3

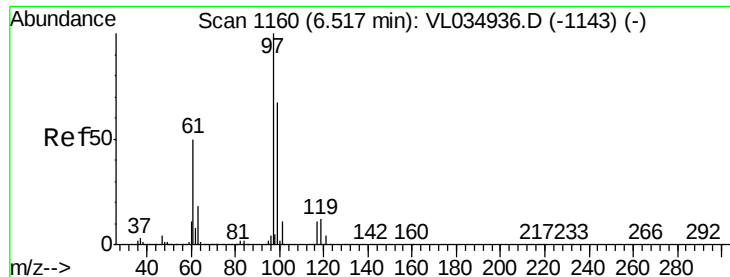
Tot Ion: 84 Resp: 49579
Ion Ratio Lower Upper
84 100
56 131.8 111.4 167.2
41 86.2 66.7 100.1



#31
cis-1,2-Dichloroethene
Concen: 6.399 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.02 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion: 61 Resp: 496808
Ion Ratio Lower Upper
61 100
96 64.9 53.0 79.6
98 39.7 32.2 48.2





#32

1,1,1-Trichloroethane

Concen: 0.264 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

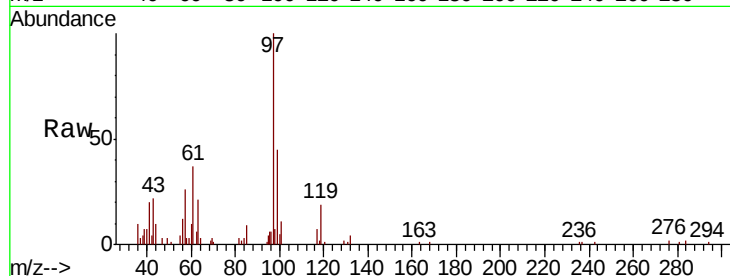
Tot Ion: 97 Resp: 31058

Ion Ratio Lower Upper

97 100

99 65.5 52.1 78.1

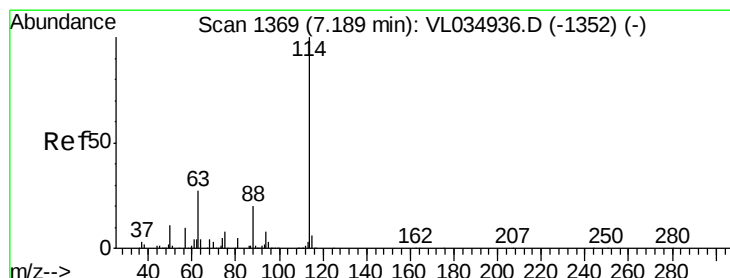
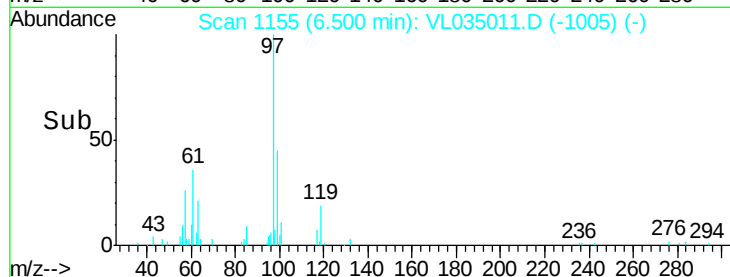
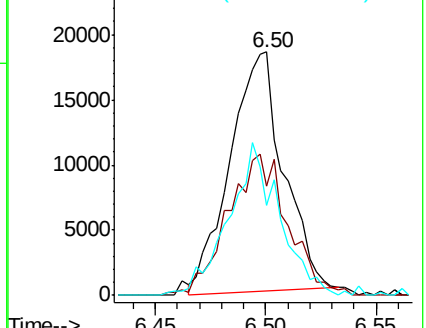
61 60.6 41.8 62.8



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

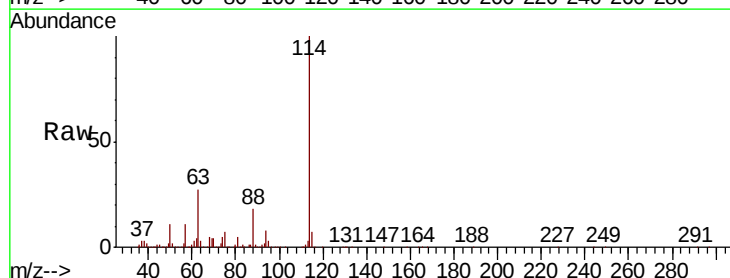
Tgt Ion: 114 Resp: 1944014

Ion Ratio Lower Upper

114 100

63 26.7 22.2 33.4

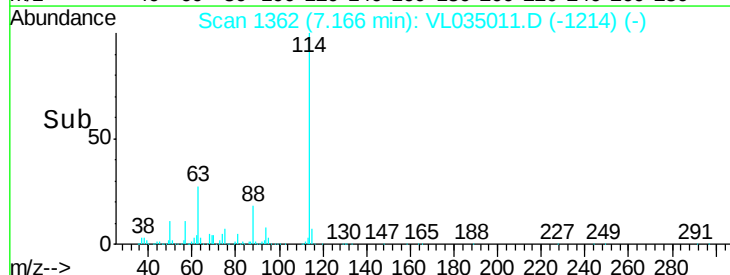
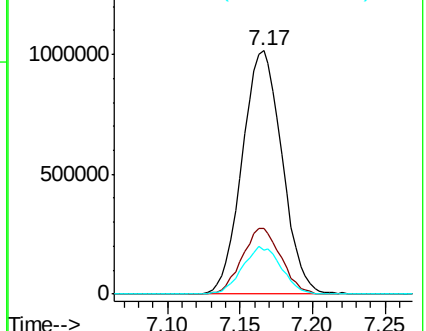
88 19.1 15.5 23.3

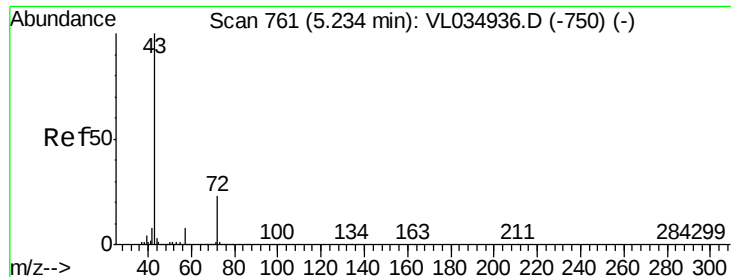


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

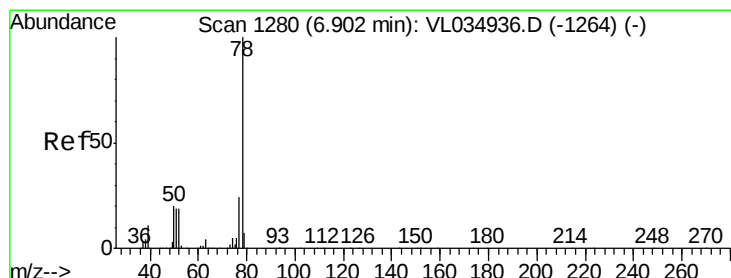
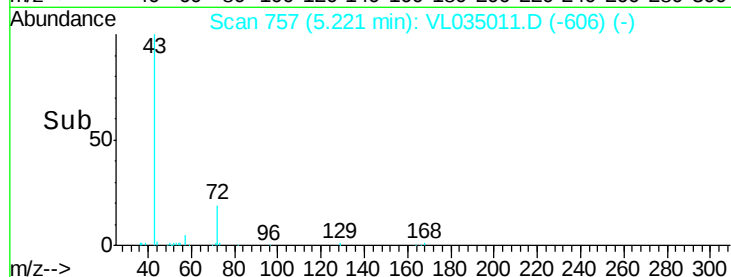
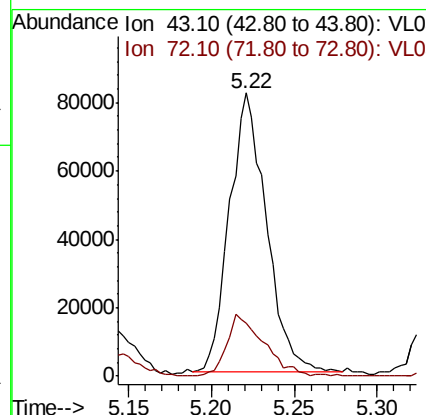
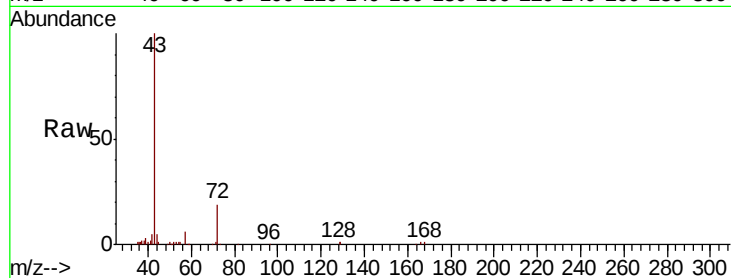




#34
2-Butanone
Concen: 1.052 ppbv
RT: 5.22 min Scan# 757
Delta R.T. -0.01 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

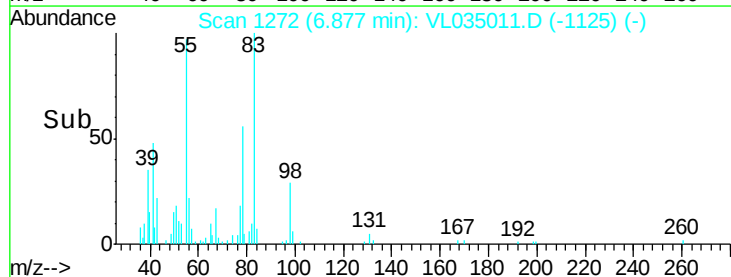
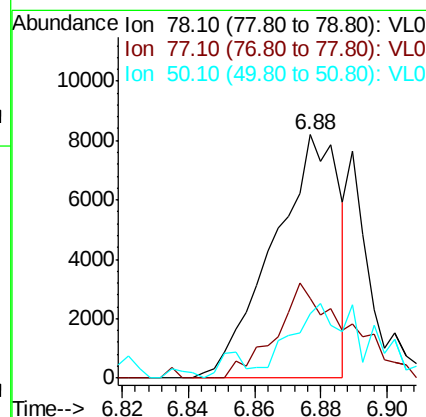
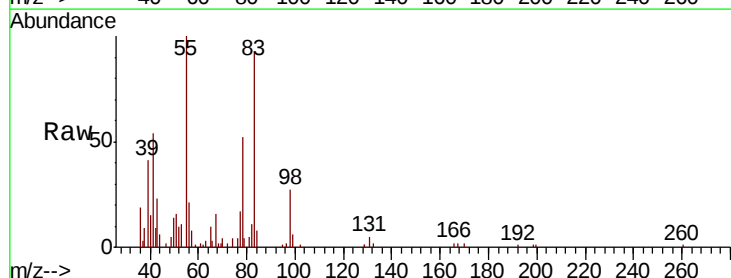
Instrument :
MSVOA_L
ClientSampleId :
SG-3

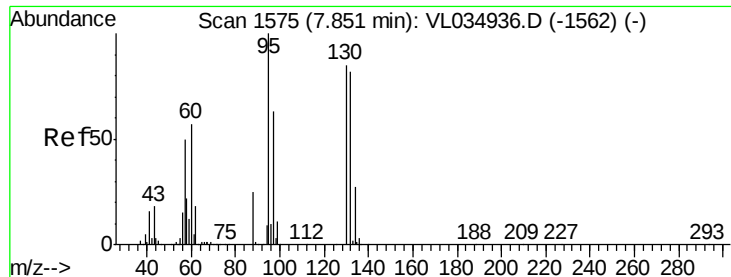
Tot Ion: 43 Resp: 127128
Ion Ratio Lower Upper
43 100
72 22.3 18.0 27.0



#36
Benzene
Concen: 0.071 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.03 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion: 78 Resp: 11320
Ion Ratio Lower Upper
78 100
77 32.9 19.0 28.6#
50 24.1 15.8 23.8#





#38

Trichloroethene

Concen: 24.147 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion:130 Resp: 1499307

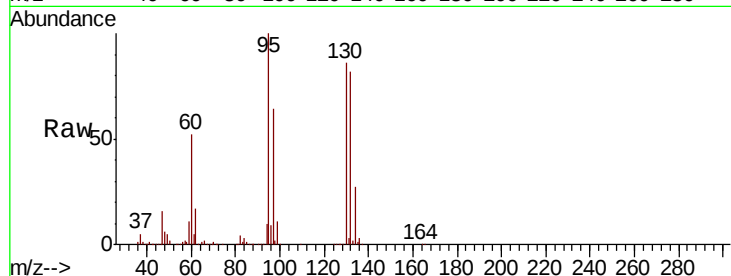
Ion Ratio Lower Upper

130 100

95 116.6 93.4 140.0

132 95.9 76.4 114.6

97 74.9 58.5 87.7

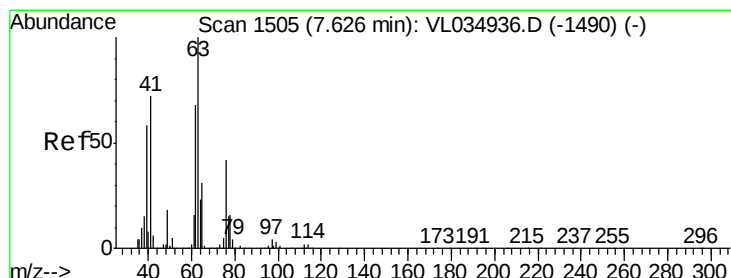
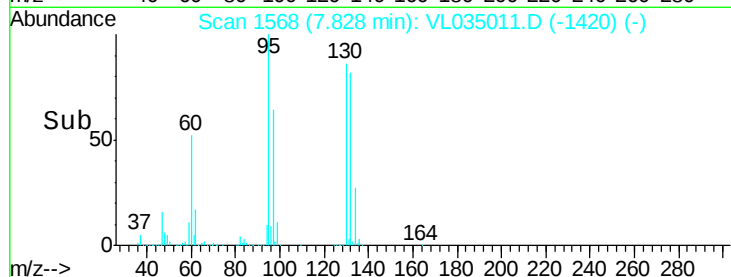
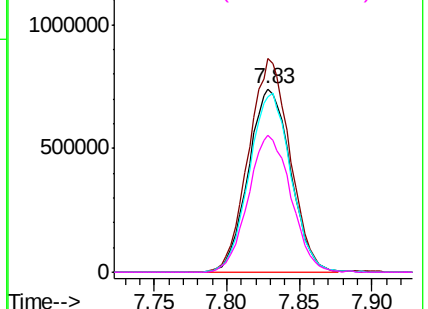


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.994 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.46 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

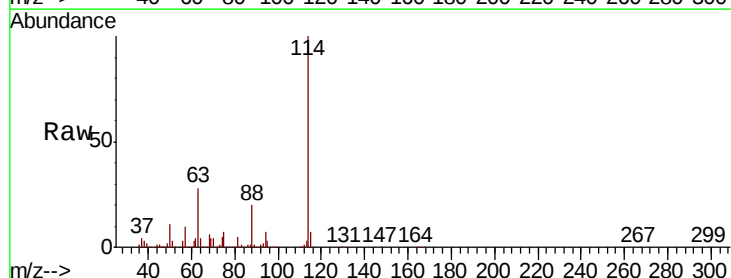
Tgt Ion: 63 Resp: 513637

Ion Ratio Lower Upper

63 100

41 0.0 57.8 86.8#

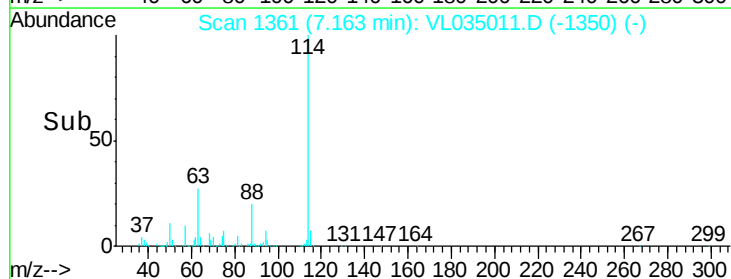
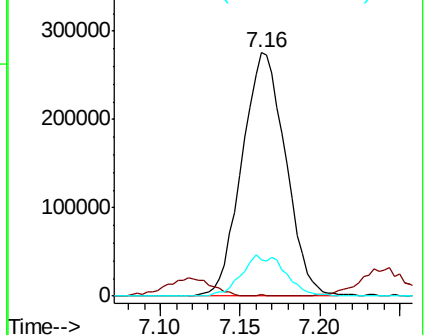
62 14.7 54.2 81.2#

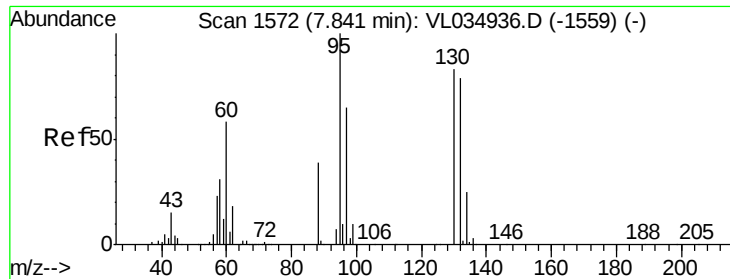


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

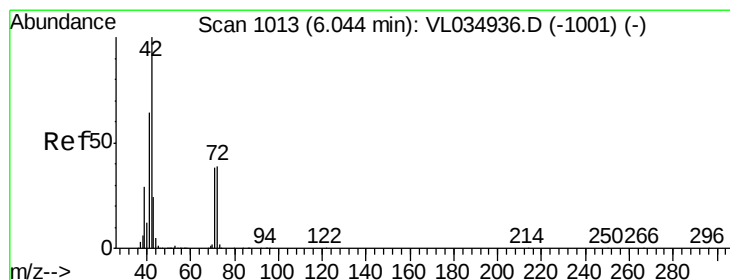
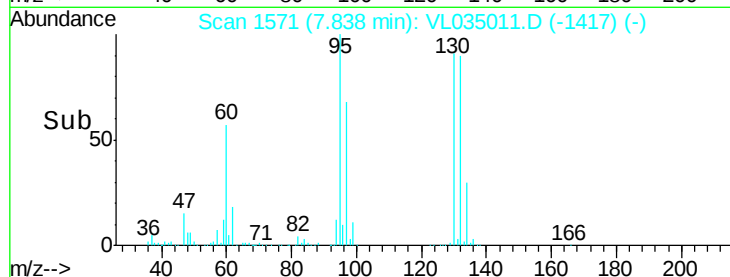
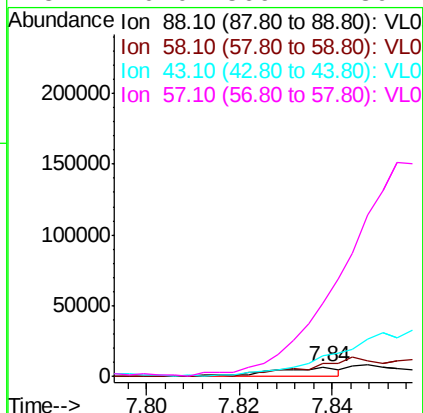
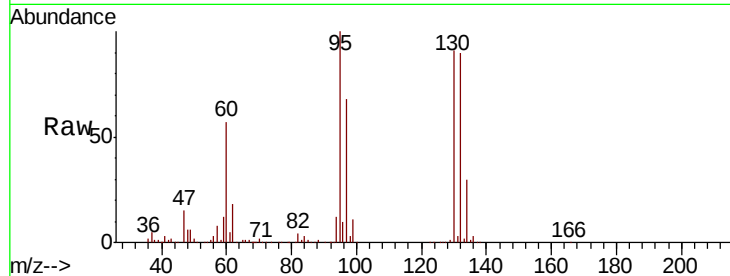




#40
1,4-Dioxane
Concen: 0.236 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

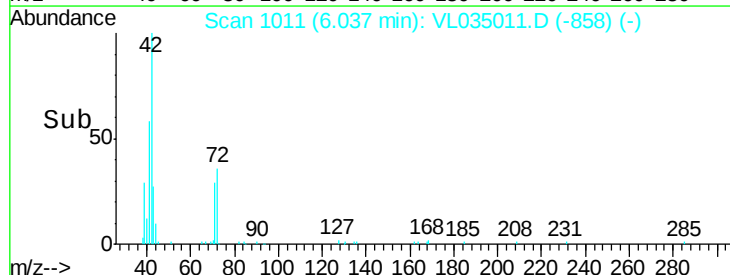
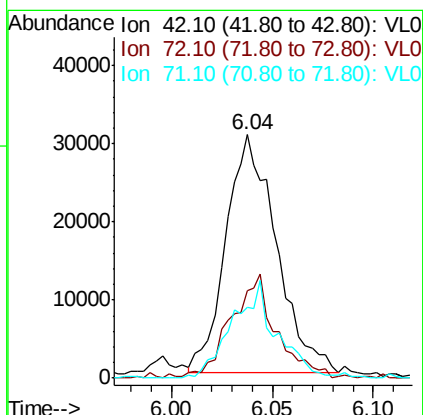
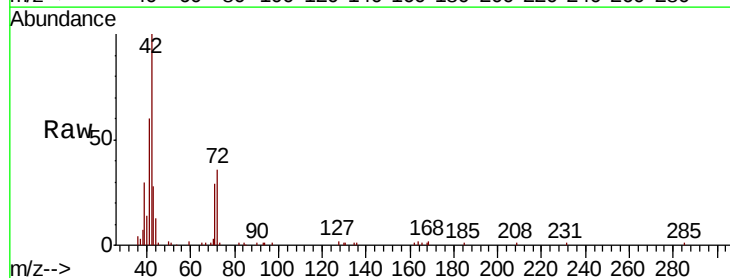
Instrument :
MSVOA_L
ClientSampleId :
SG-3

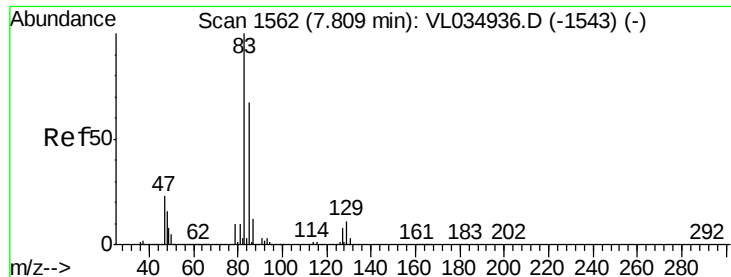
Tot Ion: 88 Resp: 6174
Ion Ratio Lower Upper
88 100
58 0.0 105.1 157.7#
43 603.3 202.6 303.8#
57 0.0 869.4 1304.0#



#41
Tetrahydrofuran
Concen: 0.835 ppbv
RT: 6.04 min Scan# 1011
Delta R.T. -0.01 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion: 42 Resp: 53119
Ion Ratio Lower Upper
42 100
72 40.4 31.4 47.0
71 36.4 29.8 44.8





#42

Bromodichloromethane

Concen: 0.022 ppbv

RT: 7.78 min Scan# 1553

Delta R.T. -0.03 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

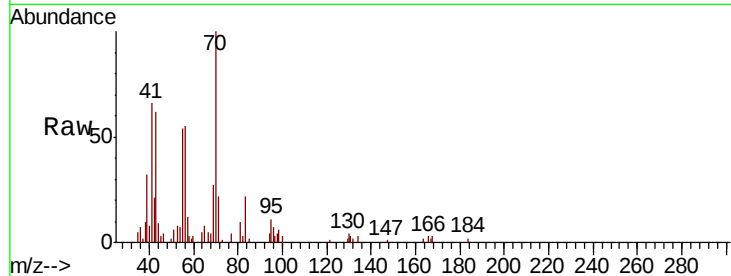
Tot Ion: 83 Resp: 2934

Ion Ratio Lower Upper

83 100

85 15.1 53.4 80.0#

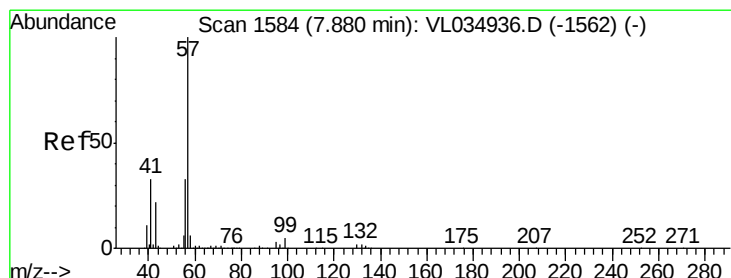
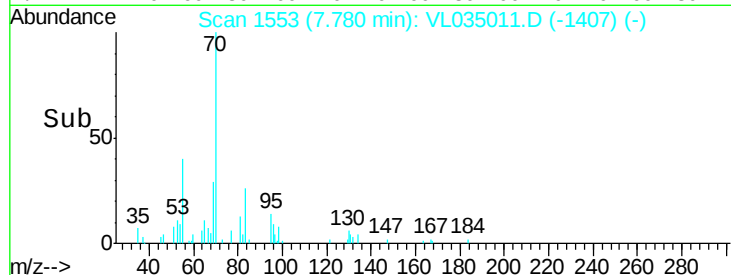
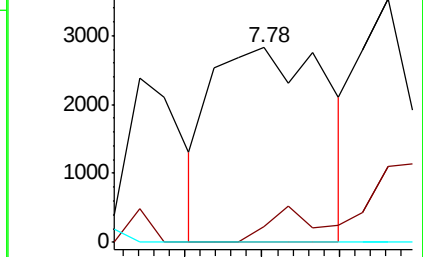
127 0.0 6.1 9.1#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 1.282 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

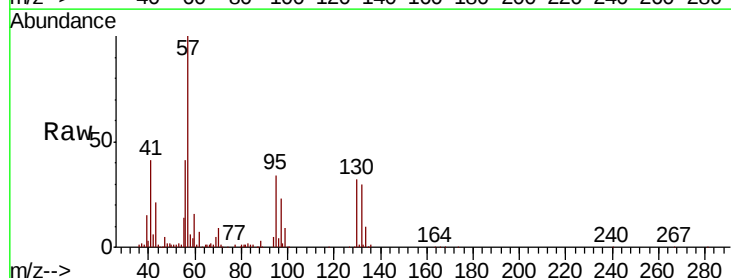
Tgt Ion: 57 Resp: 365283

Ion Ratio Lower Upper

57 100

41 40.7 26.4 39.6#

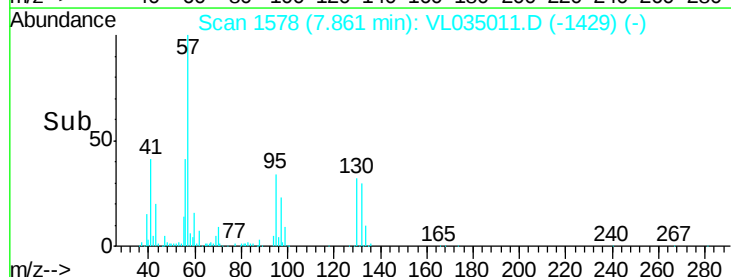
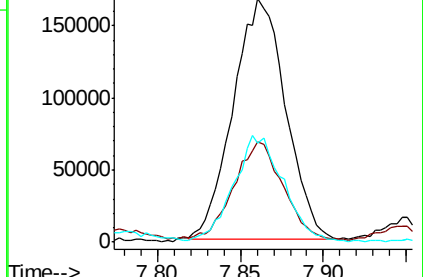
56 42.2 25.5 38.3#

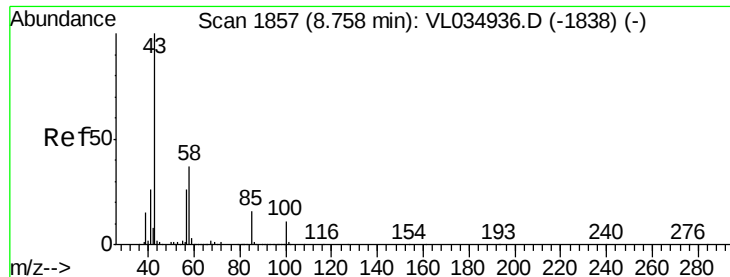


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

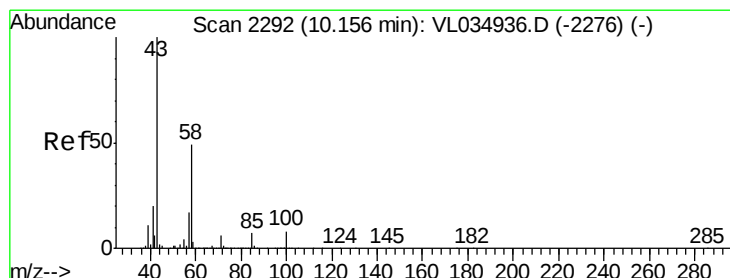
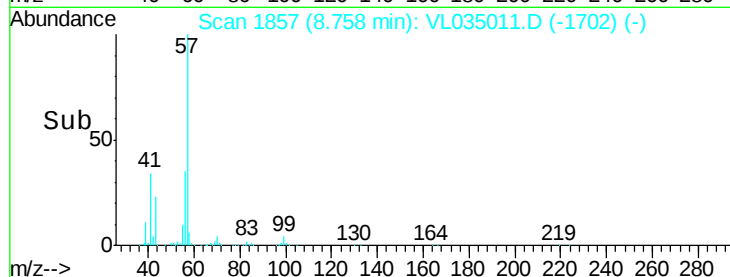
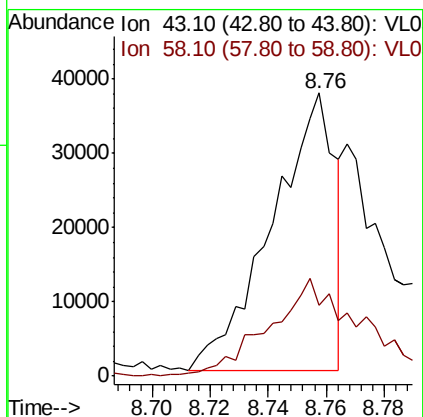
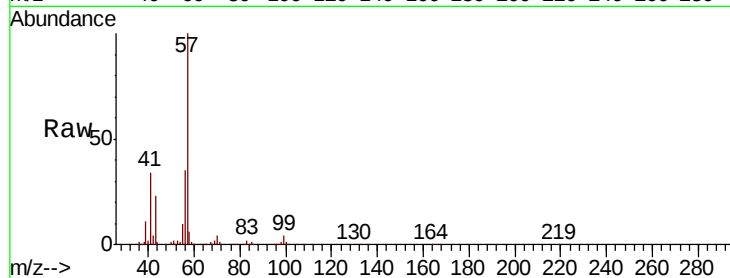




#50
4-Methyl-2-Pentanone
Concen: 0.329 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. -0.00 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

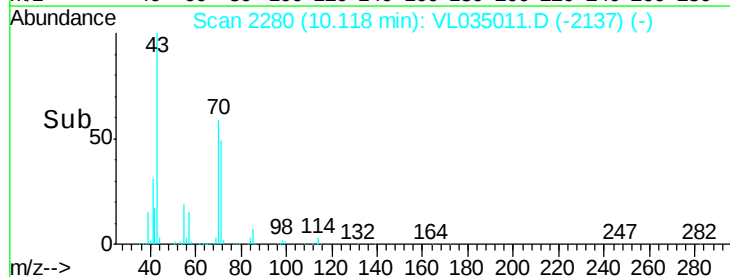
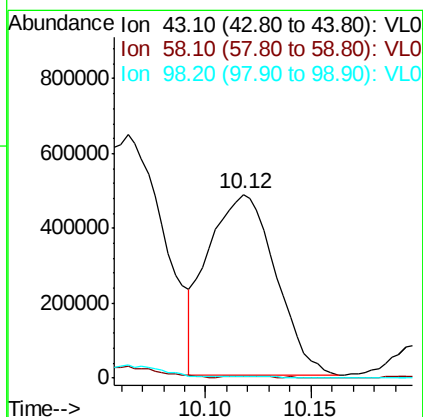
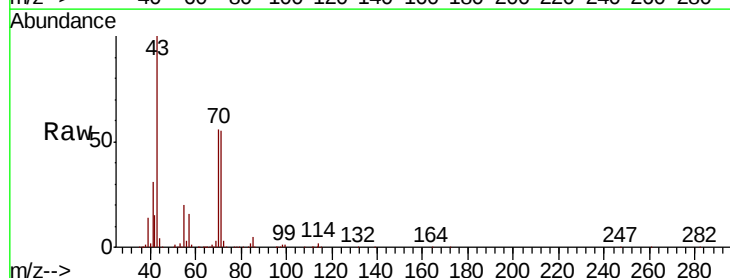
Instrument :
MSVOA_L
ClientSampleId :
SG-3

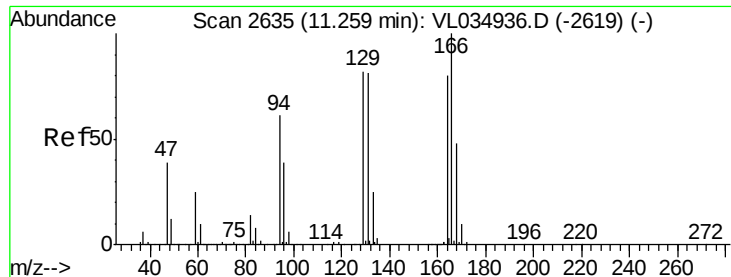
Tot Ion: 43 Resp: 56713
Ion Ratio Lower Upper
43 100
58 56.4 29.1 43.7#



#51
2-Hexanone
Concen: 7.983 ppbv
RT: 10.12 min Scan# 2280
Delta R.T. -0.04 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion: 43 Resp: 1075793
Ion Ratio Lower Upper
43 100
58 0.0 39.1 58.7#
98 0.8 0.3 0.5#





#52

Tetrachloroethene

Concen: 53.057 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion:164 Resp: 3023801

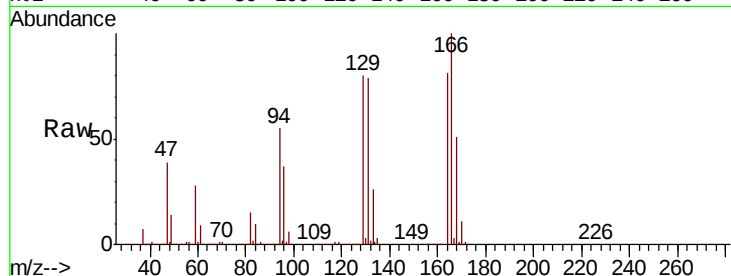
Ion Ratio Lower Upper

164 100

166 122.8 100.7 151.1

129 98.8 83.0 124.4

131 96.7 81.0 121.4



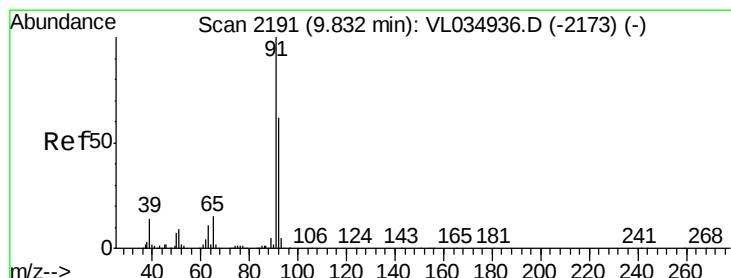
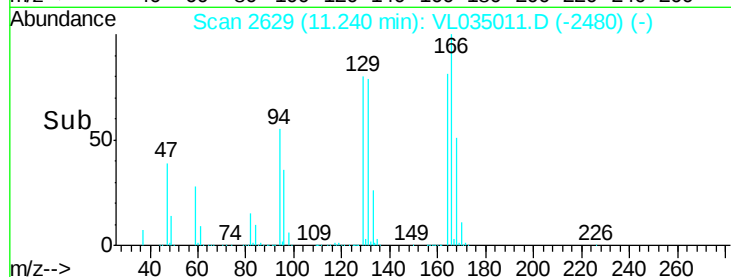
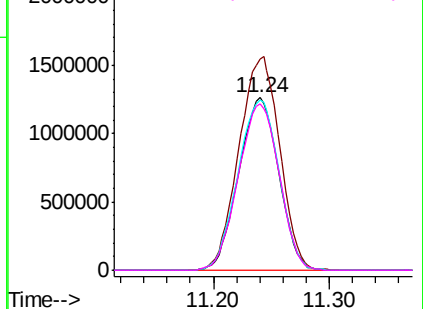
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 3.839 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035011.D

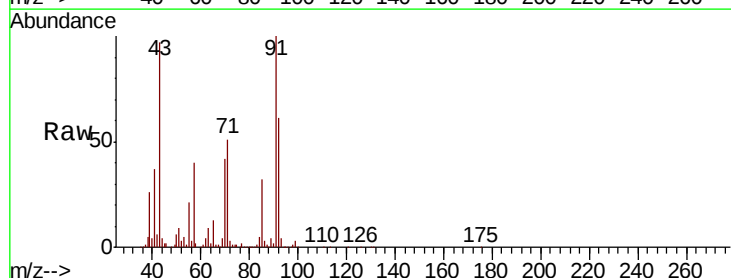
Acq: 13 May 2020 6:33

Tgt Ion: 91 Resp: 652301

Ion Ratio Lower Upper

91 100

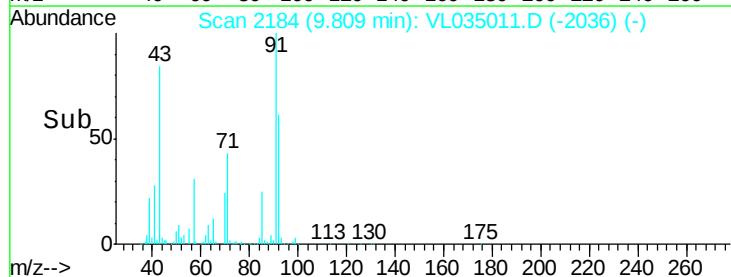
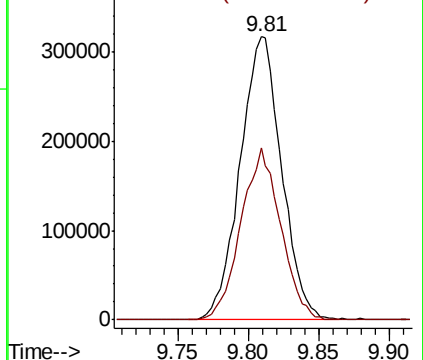
92 58.3 48.6 73.0

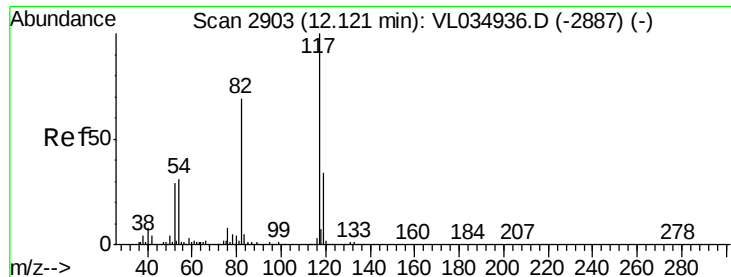


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

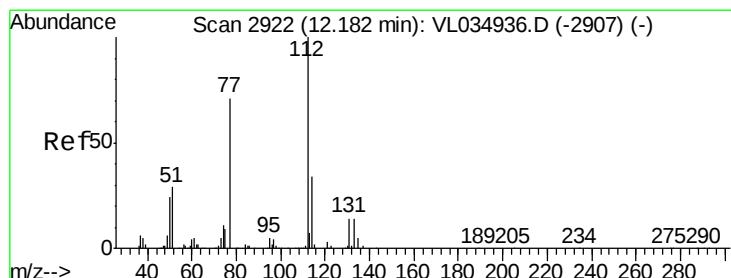
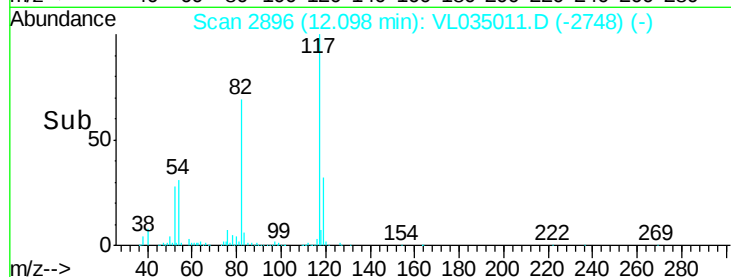
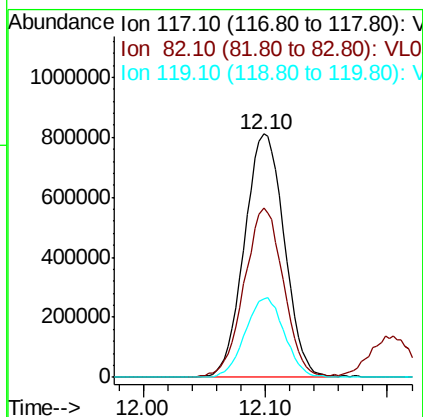
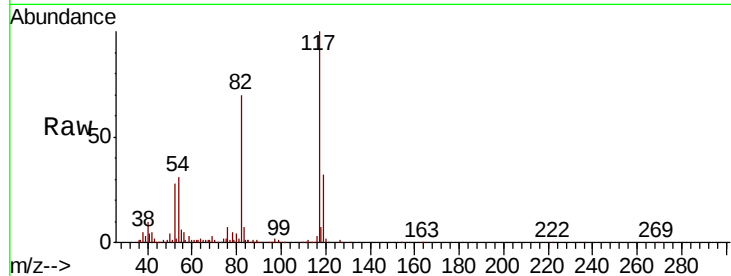




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

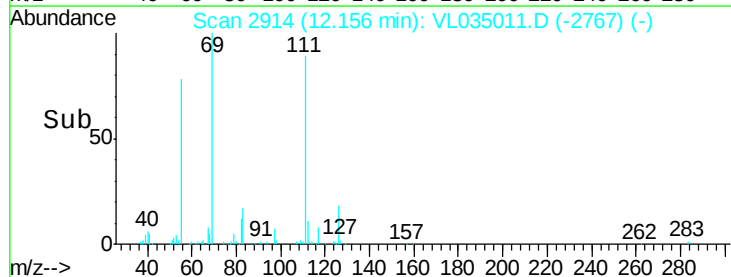
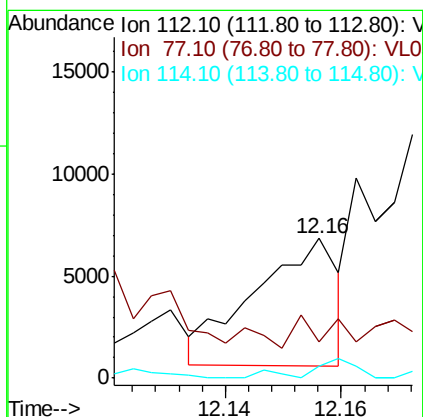
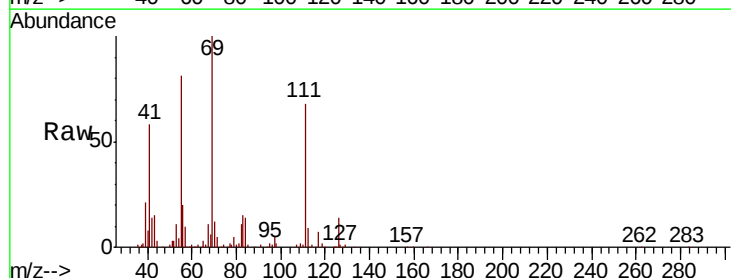
Instrument :
MSVOA_L
ClientSampleId :
SG-3

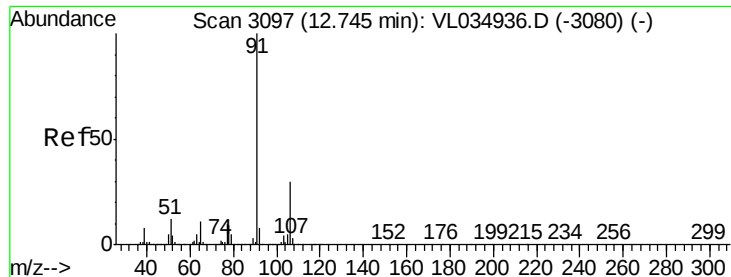
Tot Ion:117 Resp: 1835634
Ion Ratio Lower Upper
117 100
82 68.1 53.1 79.7
119 32.2 26.7 40.1



#57
Chlorobenzene
Concen: 0.043 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.03 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion:112 Resp: 6236
Ion Ratio Lower Upper
112 100
77 0.0 57.0 85.6#
114 8.6 30.8 37.6#





#58

Ethyl Benzene

Concen: 1.956 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

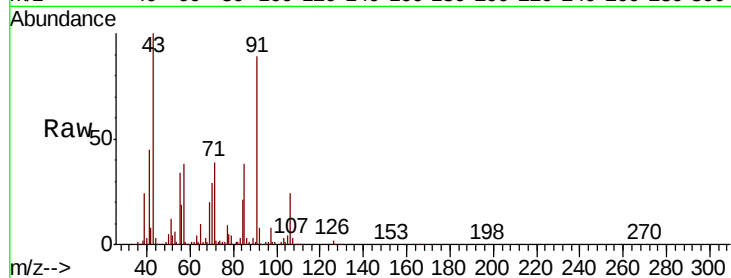
SG-3

Tot Ion: 91 Resp: 444079

Ion Ratio Lower Upper

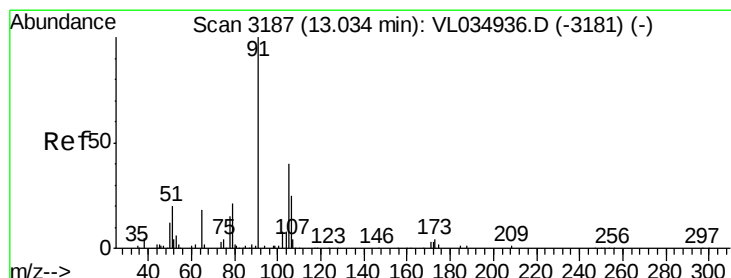
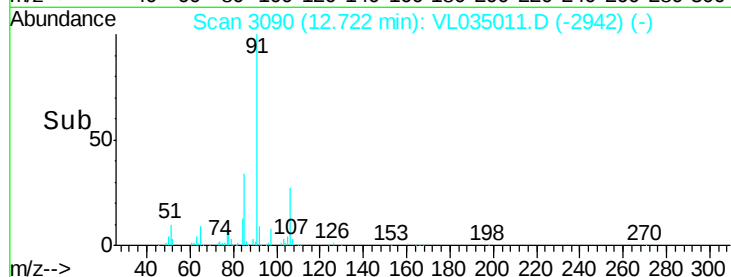
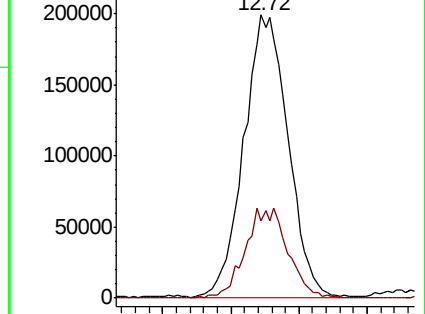
91 100

106 27.3 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 10.972 ppbv

RT: 12.98 min Scan# 3171

Delta R.T. -0.05 min

Lab File: VL035011.D

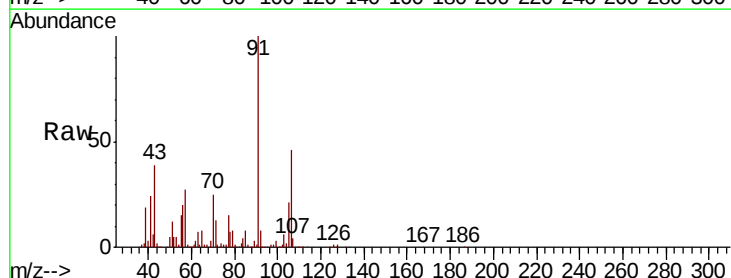
Acq: 13 May 2020 6:33

Tgt Ion: 91 Resp: 2191188

Ion Ratio Lower Upper

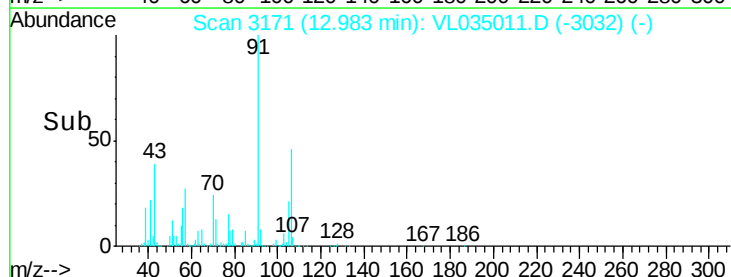
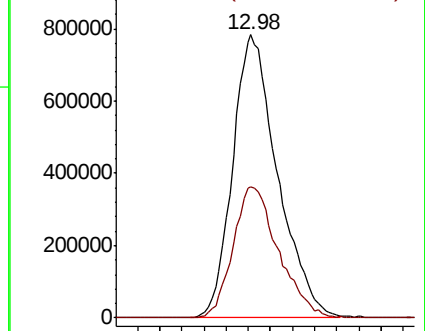
91 100

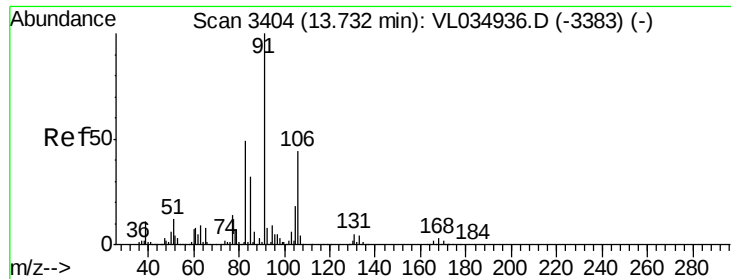
106 47.3 66.0 99.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

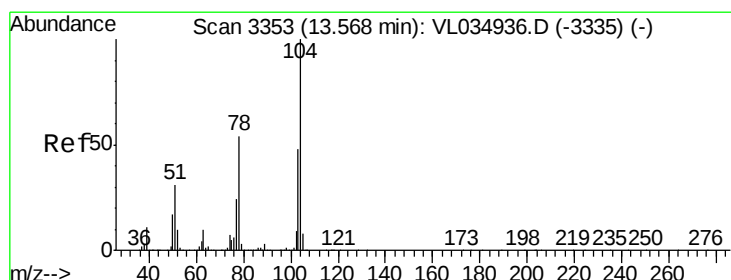
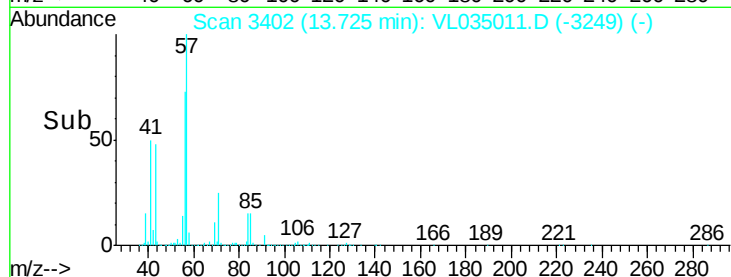
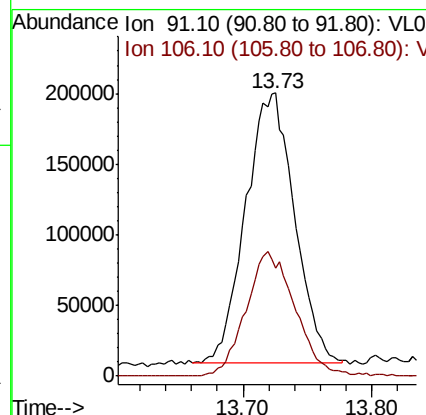
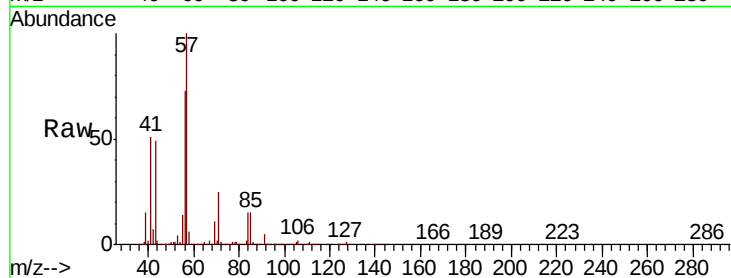




#60
o-Xylene
Concen: 2.550 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.01 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

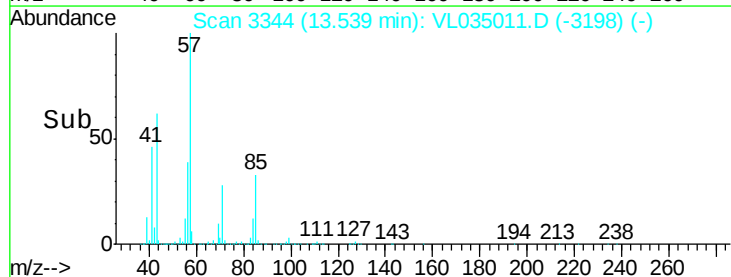
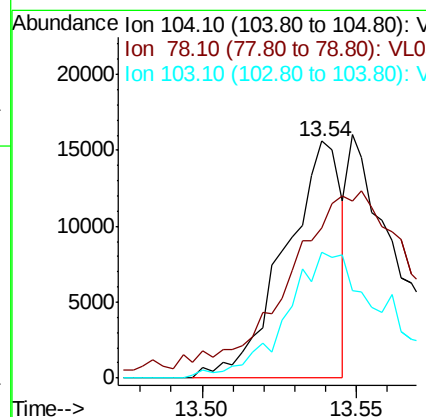
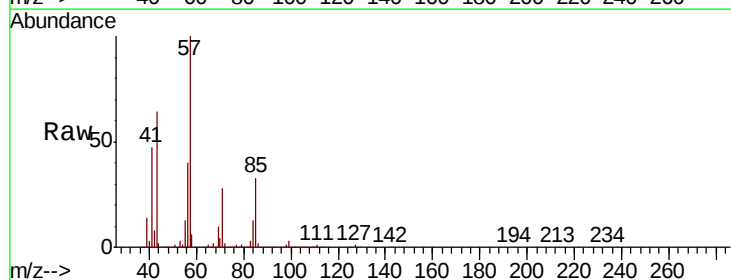
Instrument :
MSVOA_L
ClientSampleId :
SG-3

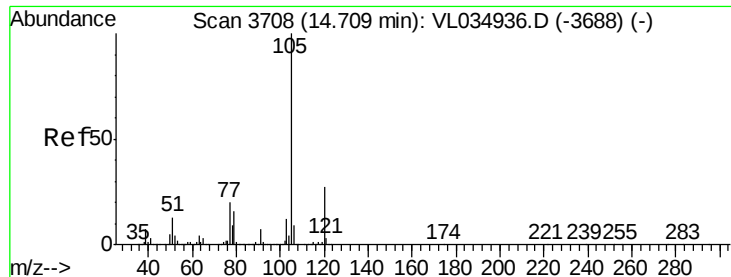
Tot Ion: 91 Resp: 502602
Ion Ratio Lower Upper
91 100
106 47.1 21.9 65.5



#61
Styrene
Concen: 0.157 ppbv
RT: 13.54 min Scan# 3344
Delta R.T. -0.03 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion: 104 Resp: 19599
Ion Ratio Lower Upper
104 100
78 0.0 43.7 65.5#
103 100.4 38.8 58.2#





#62

Isopropylbenzene

Concen: 1.729 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. -0.00 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Instrument :

MSVOA_L

ClientSampleId :

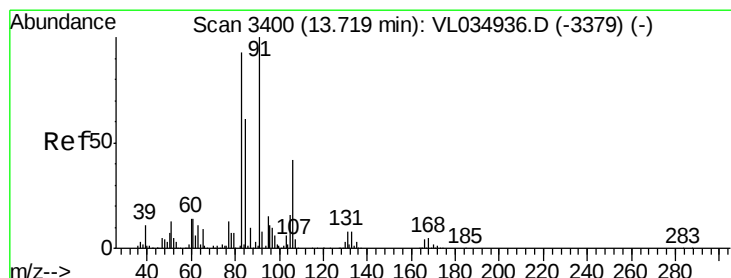
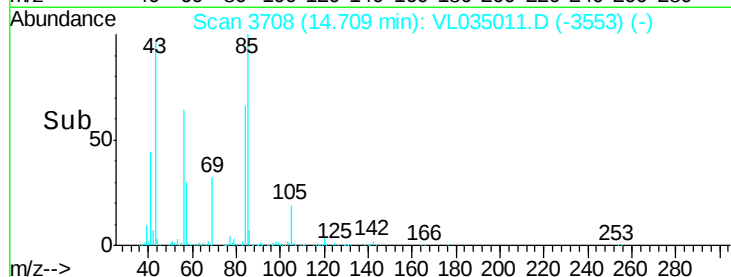
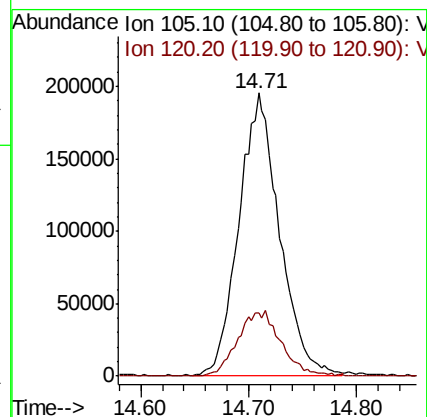
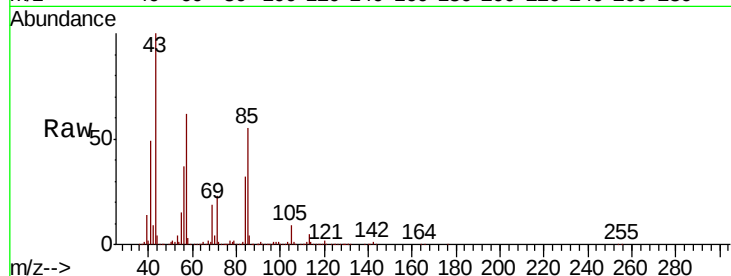
SG-3

Tot Ion:105 Resp: 508728

Ion Ratio Lower Upper

105 100

120 24.7 20.6 31.0



#63

1,1,2,2-Tetrachloroethane

Concen: 0.285 ppbv

RT: 13.70 min Scan# 3393

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

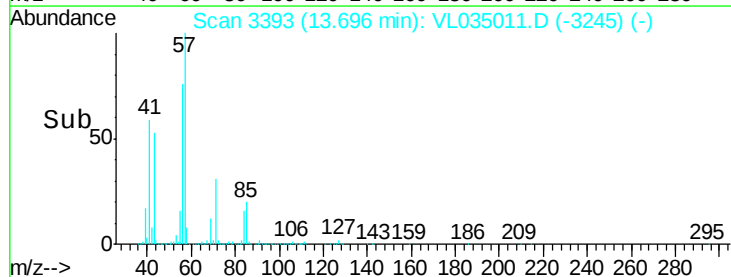
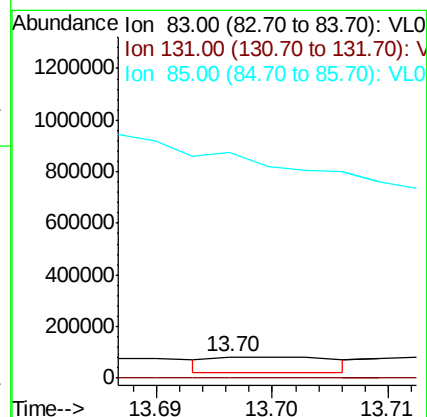
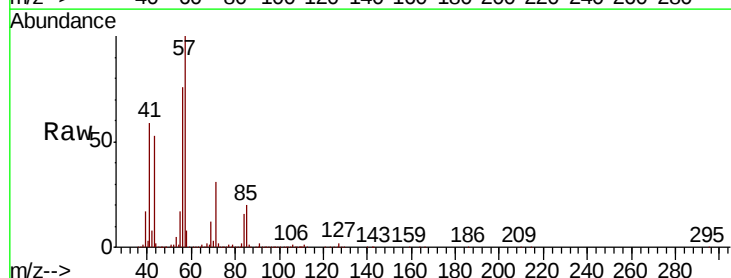
Tgt Ion: 83 Resp: 44204

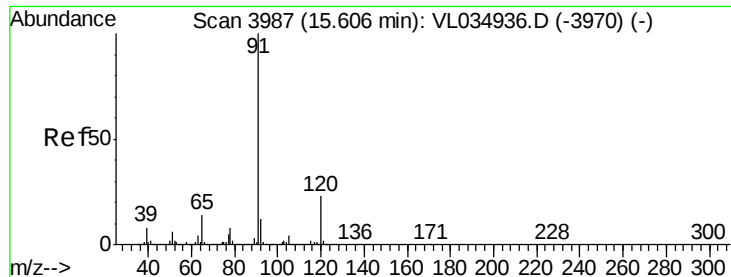
Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.0#

85 0.0 32.5 97.4#

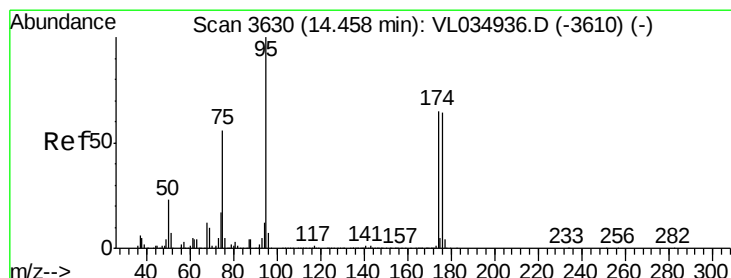
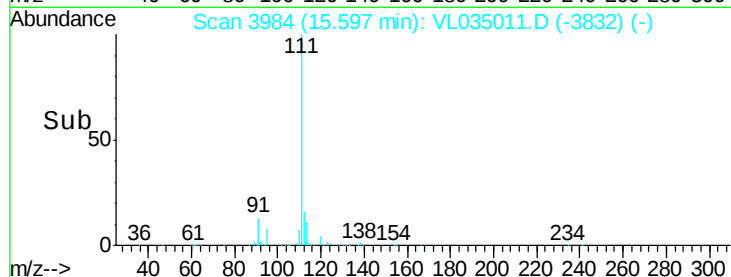
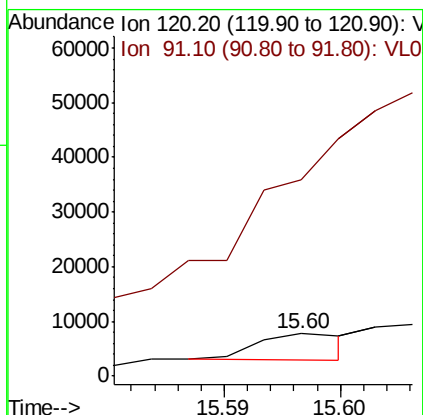
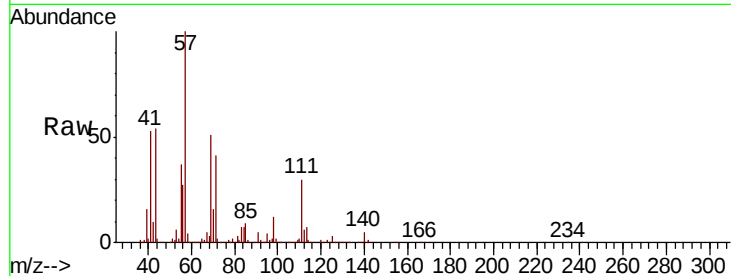




#64
n-propylbenzene
Concen: 0.034 ppbv
RT: 15.60 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

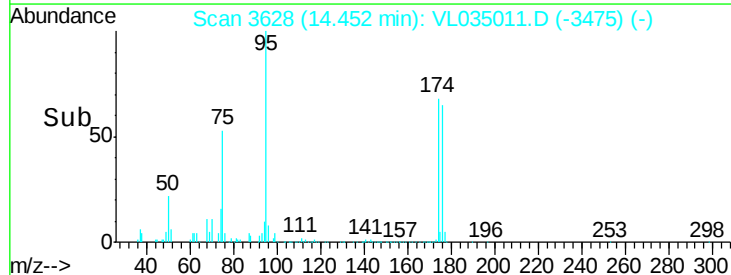
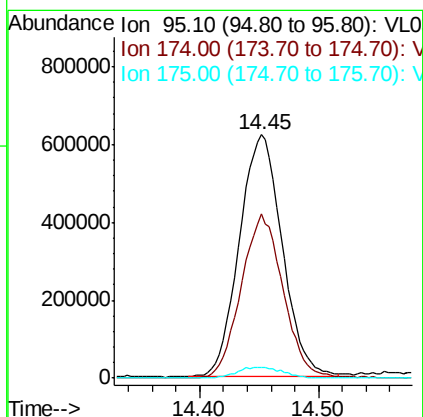
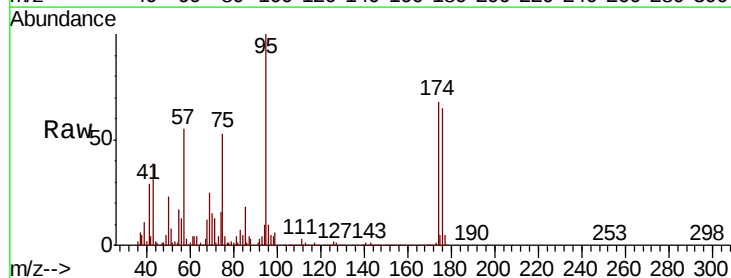
Instrument :
MSVOA_L
ClientSampleID :
SG-3

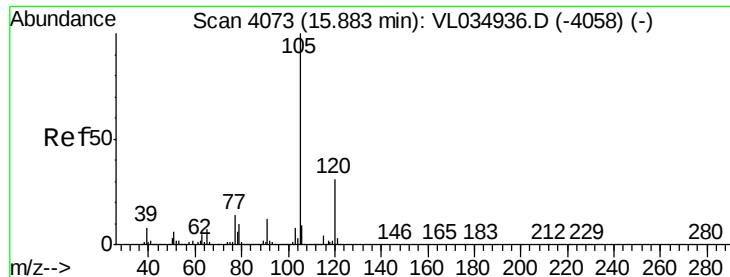
Tot Ion:120 Resp: 2592
Ion Ratio Lower Upper
120 100
91 0.0 373.5 560.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.463 ppbv
RT: 14.45 min Scan# 3628
Delta R.T. -0.01 min
Lab File: VL035011.D
Acq: 13 May 2020 6:33

Tgt Ion: 95 Resp: 1554588
Ion Ratio Lower Upper
95 100
174 66.7 51.5 77.3
175 4.8 3.8 5.8





#72

4-Ethyltoluene

Concen: 0.146 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.02 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

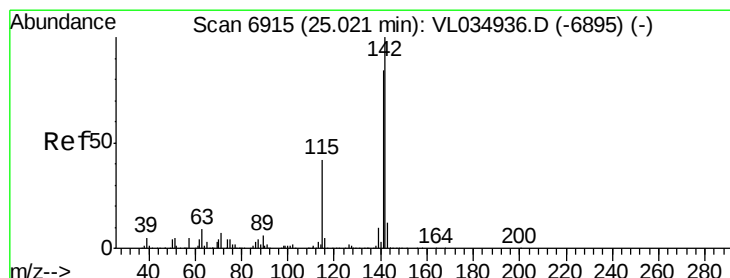
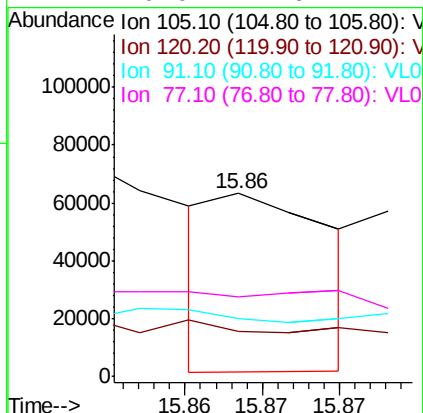
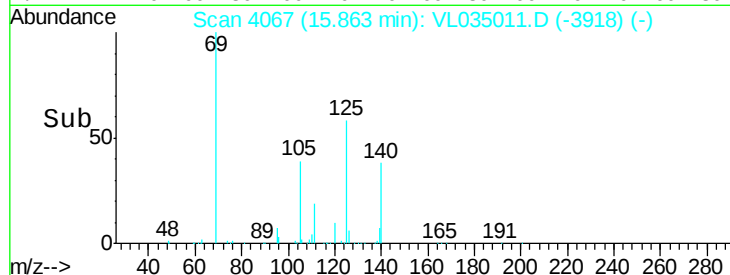
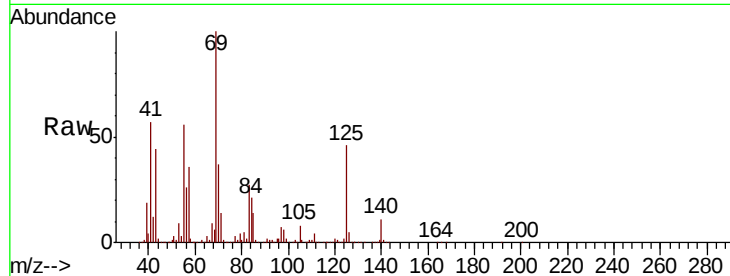
Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion:105	Resp:	32147
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.8 35.8#
91	0.0	10.6 15.8#
77	0.0	11.6 17.4#



#80

Naphthalene, 2-methyl-

Concen: 0.860 ppbv

RT: 25.01 min Scan# 6913

Delta R.T. -0.01 min

Lab File: VL035011.D

Acq: 13 May 2020 6:33

Tgt Ion:142	Resp:	38439
Ion Ratio	Lower	Upper
142	100	
141	0.0	68.6 102.8#
115	3.5	33.9 50.9#

