

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
 Data File : VL032193.D
 Acq On : 2 Jul 2018 22:27
 Operator : SY/AP
 Sample : J3753-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

Quant Time: Jul 03 05:05:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1388503	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.39	114	3510022	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.34	117	3278731	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2423402	9.67	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	42346	0.232	ppbv	96
3) Chlorodifluoromethane	3.07	51	121336	0.715	ppbv #	87
4) Chloromethane	3.23	50	35866	0.396	ppbv	99
7) Chloroethane	3.66	64	48401	1.496	ppbv	92
9) Propene	3.09	41	185287	2.343	ppbv	96
10) Heptane	8.34	43	281631	1.222	ppbv	95
11) Trichlorofluoromethane	4.08	101	38648	0.195	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.63	101	857030	6.506	ppbv	92
13) Ethanol	3.74	45	10262971	428.149	ppbv	98
15) Acetone	3.97	43	7411644	45.650	ppbv	100
16) 1,3-Butadiene	3.40	39	181604	2.344	ppbv #	7
17) tert-Butyl alcohol	4.47	59	1171126	11.328	ppbv	98
18) 1,1-Dichloroethene	4.43	96	181800	2.885	ppbv	94
19) Isopropyl Alcohol	4.13	45	6819984	50.557	ppbv #	40
20) Methylene Chloride	4.49	84	100521	1.694	ppbv	93
21) Allyl Chloride	4.47	41	278683	2.514	ppbv #	83
22) trans-1,2-Dichloroethene	5.04	96	57289	0.870	ppbv	93
23) Vinyl Acetate	5.22	43	549977	1.868	ppbv #	69
24) 1,1-Dichloroethane	5.17	63	2979800	15.799	ppbv	99
25) Ethyl Acetate	5.86	43	424325	1.263	ppbv #	95
26) Hexane	5.86	57	284558	1.840	ppbv #	76
29) Chloroform	5.94	83	18057	0.080	ppbv	90
30) Cyclohexane	7.34	84	96593	0.662	ppbv	93
31) cis-1,2-Dichloroethene	5.73	61	28148	0.182	ppbv	89
32) 1,1,1-Trichloroethane	6.71	97	15915636	67.429	ppbv	93
34) 2-Butanone	5.41	43	1510456	6.780	ppbv	99
36) Benzene	7.10	78	192327	0.566	ppbv	99
37) 1,2-Dichloroethane	6.71	62	736695	4.353	ppbv #	1
39) 1,2-Dichloropropane	7.39	63	929107	6.934	ppbv #	26
41) Tetrahydrofuran	6.24	42	70074	0.525	ppbv #	89
43) Methyl Methacrylate	8.24	69	11794	0.084	ppbv #	1
44) 2,2,4-Trimethylpentane	8.09	57	1727533	2.906	ppbv	94
50) 4-Methyl-2-Pentanone	8.98	43	229455	0.629	ppbv	98
51) 2-Hexanone	10.37	43	79225	0.262	ppbv #	91
53) Toluene	10.05	91	2024993	4.932	ppbv	99
57) Chlorobenzene	12.41	112	12596	0.044	ppbv #	59
58) Ethyl Benzene	12.96	91	591172	1.119	ppbv	94
59) m/p-Xylene	13.22	91	1752899	4.139	ppbv	97
60) o-Xylene	13.95	91	710483	1.682	ppbv	97
61) Styrene	13.78	104	45958	0.133	ppbv #	86
62) Isopropylbenzene	14.93	105	44206	0.068	ppbv	91

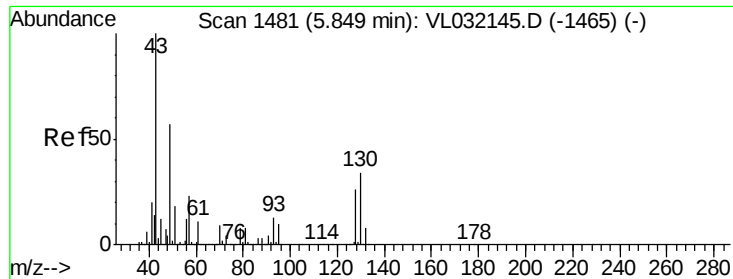
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
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Quant Time: Jul 03 05:05:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
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 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
64) n-propylbenzene	15.82	120	23318	0.139	ppbv	#	1
65) tert-Butylbenzene	17.02	119	83274	0.146	ppbv	#	56
66) Benzyl Chloride	17.03	91	92984	0.264	ppbv	#	63
69) p-Isopropyltoluene	17.92	119	1434038	2.139	ppbv		96
70) n-Butylbenzene	18.82	91	37647	0.054	ppbv	#	22
71) 2-Chlorotoluene	15.82	91	192859	0.386	ppbv	#	43
72) 4-Ethyltoluene	16.10	105	218981	0.401	ppbv	#	96
73) 1,3,5-Trimethylbenzene	16.26	105	188609	0.367	ppbv		98
74) 1,2,4-Trimethylbenzene	17.03	105	794936	1.533	ppbv	#	73
75) 1,3-Dichlorobenzene	17.27	146	414915	1.406	ppbv	#	1
76) 1,4-Dichlorobenzene	17.27	146	414915	1.387	ppbv	#	1
79) Naphthalene	22.54	128	36372	0.077	ppbv		95
80) Naphthalene,2-methyl-	25.20	142	9777	0.057	ppbv	#	65

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.85 min Scan# 1482

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

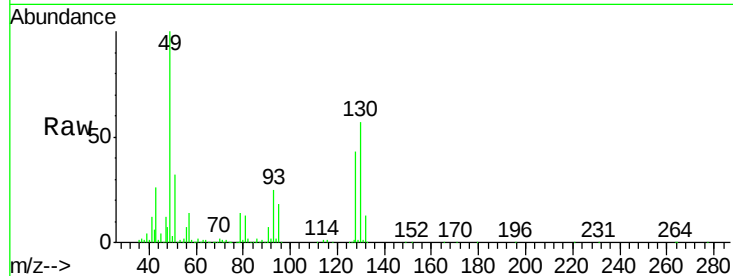
Tgt Ion: 49 Resp: 1388503

Ion Ratio Lower Upper

49 100

128 44.0 23.4 70.0

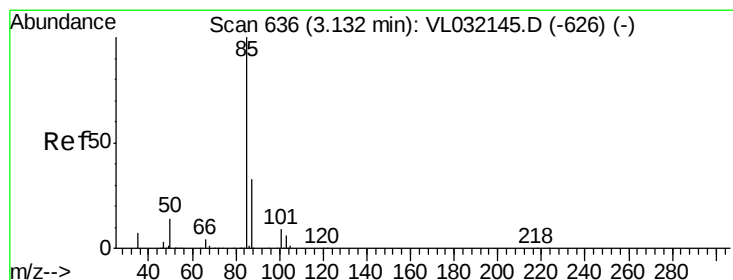
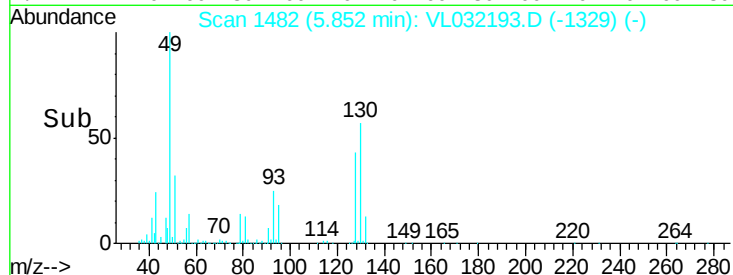
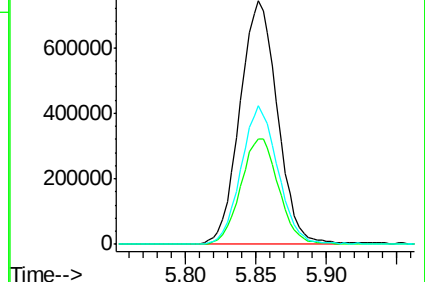
130 56.1 30.3 90.9



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



#2

Dichlorodifluoromethane

Concen: 0.232 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032193.D

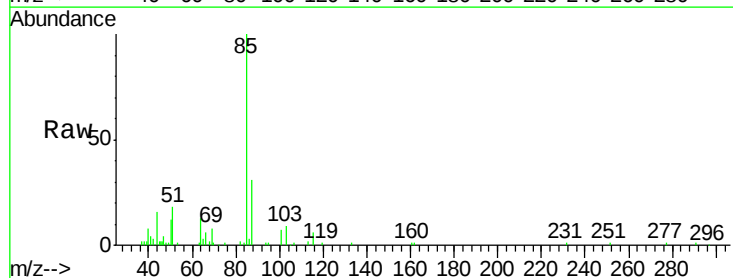
Acq: 2 Jul 2018 22:27

Tgt Ion: 85 Resp: 42346

Ion Ratio Lower Upper

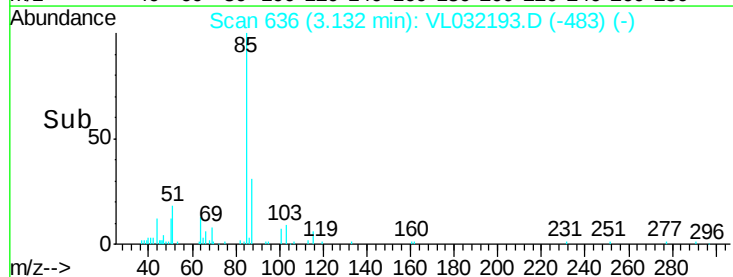
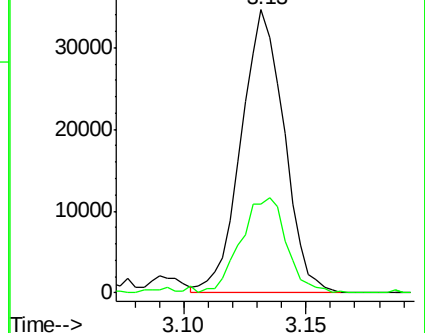
85 100

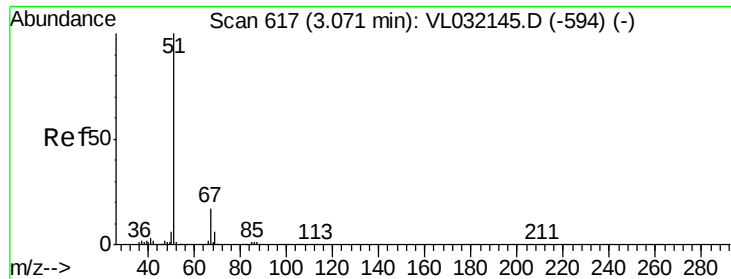
87 30.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.715 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

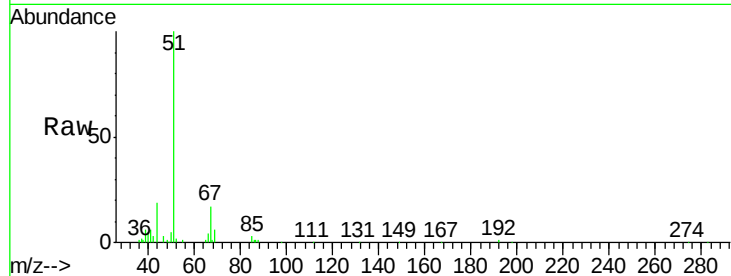
EFFLUENT

Tgt Ion: 51 Resp: 121336

Ion Ratio Lower Upper

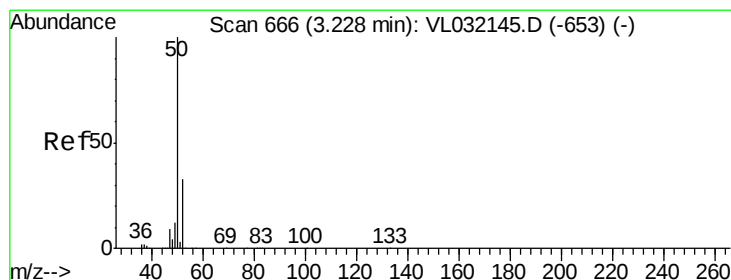
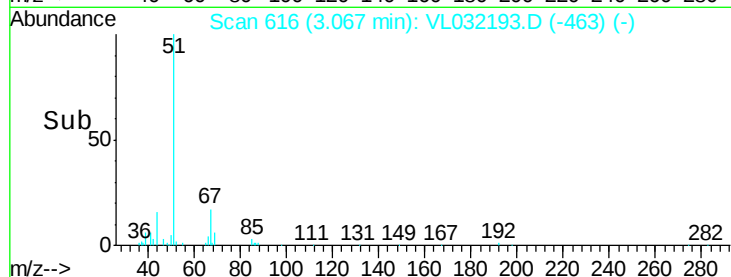
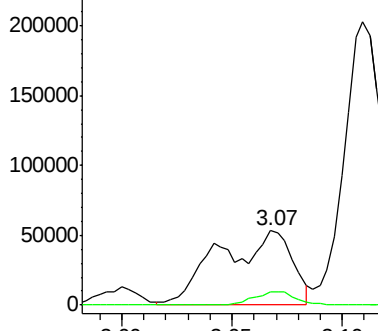
51 100

67 10.7 13.2 19.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.396 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032193.D

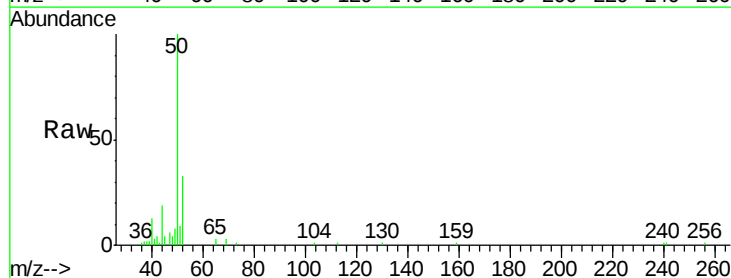
Acq: 2 Jul 2018 22:27

Tgt Ion: 50 Resp: 35866

Ion Ratio Lower Upper

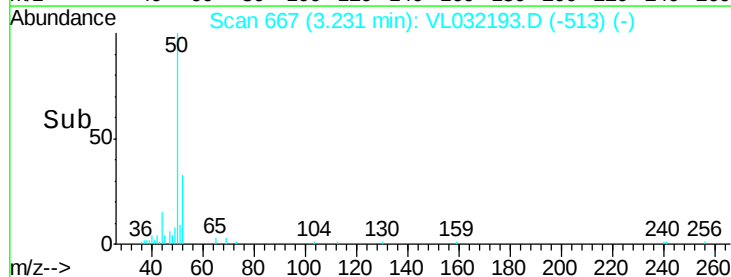
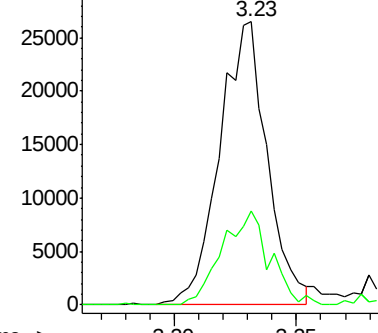
50 100

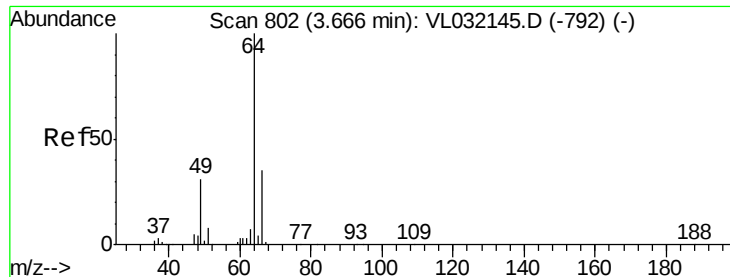
52 33.3 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 1.496 ppbv

RT: 3.66 min Scan# 801

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

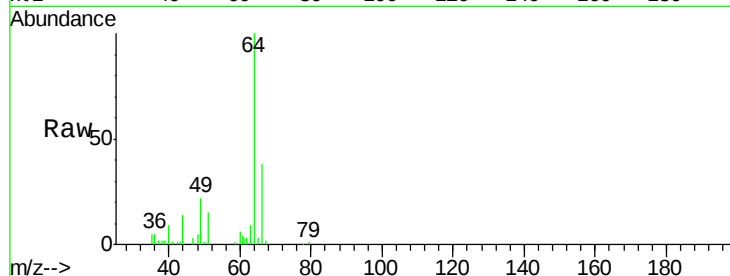
EFFLUENT

Tgt Ion: 64 Resp: 48401

Ion Ratio Lower Upper

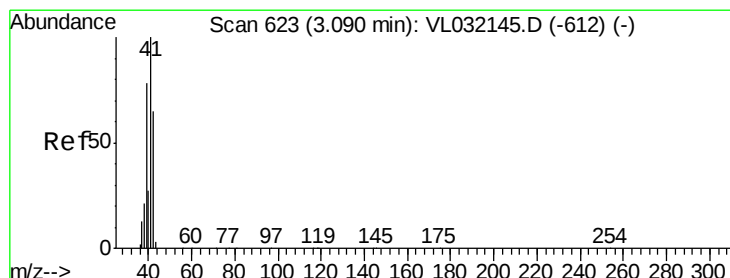
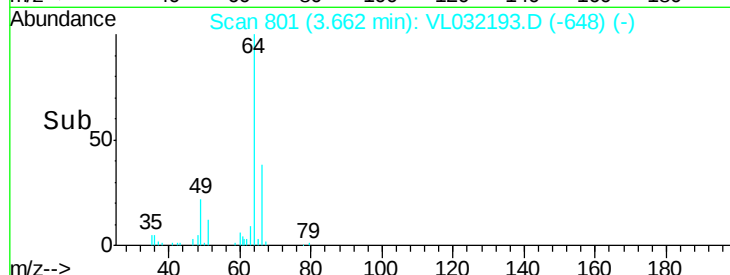
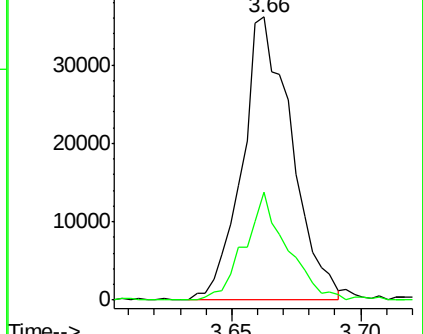
64 100

66 38.3 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 2.343 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032193.D

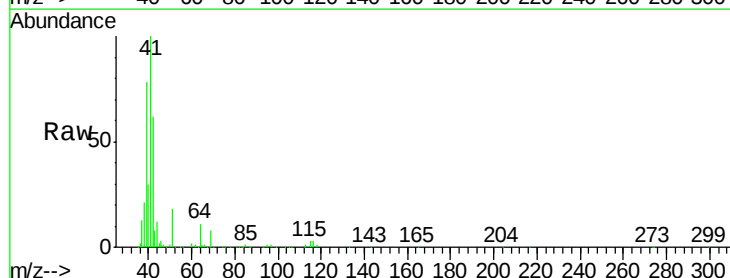
Acq: 2 Jul 2018 22:27

Tgt Ion: 41 Resp: 185287

Ion Ratio Lower Upper

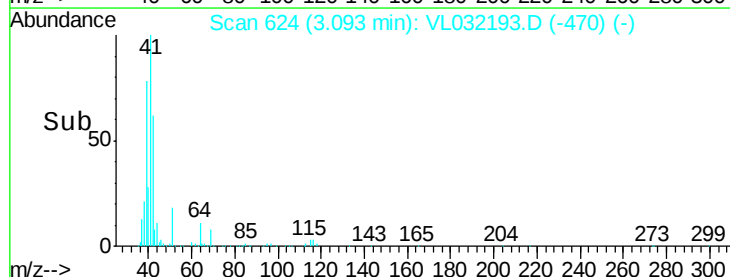
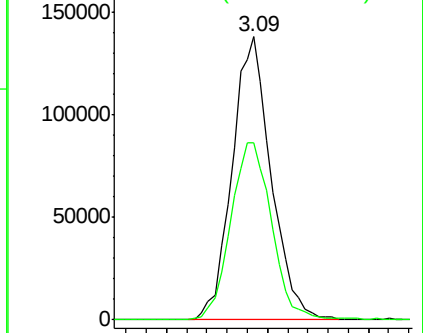
41 100

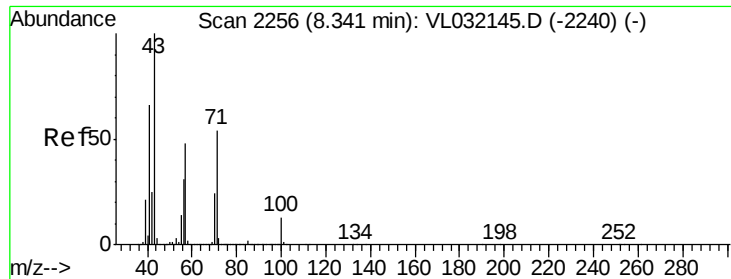
42 66.7 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.222 ppbv

RT: 8.34 min Scan# 2257

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

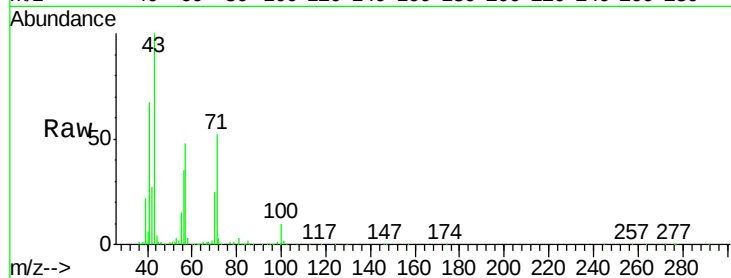
EFFLUENT

Tgt Ion: 43 Resp: 281631

Ion Ratio Lower Upper

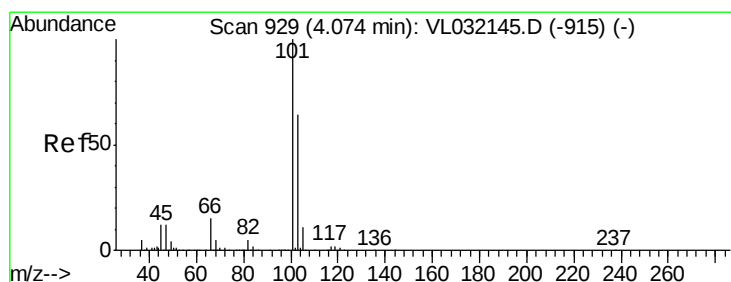
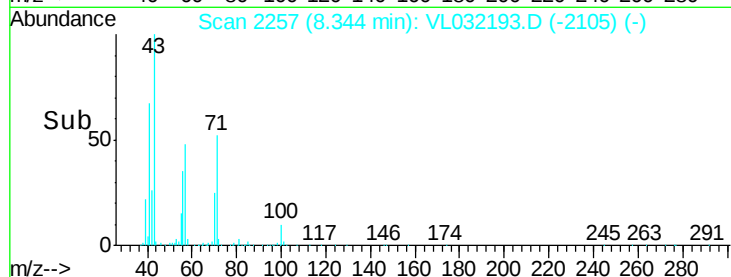
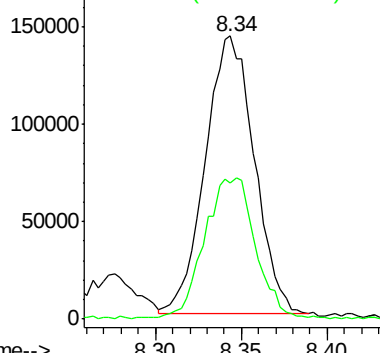
43 100

57 53.0 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.195 ppbv

RT: 4.08 min Scan# 930

Delta R.T. -0.01 min

Lab File: VL032193.D

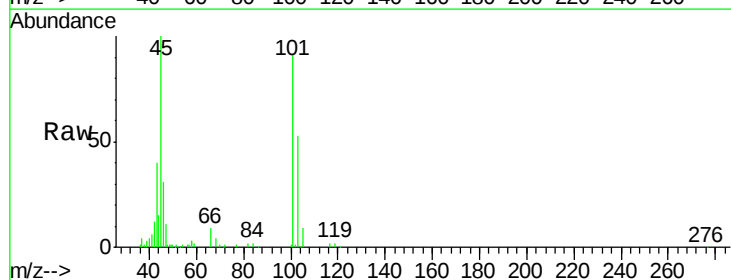
Acq: 2 Jul 2018 22:27

Tgt Ion: 101 Resp: 38648

Ion Ratio Lower Upper

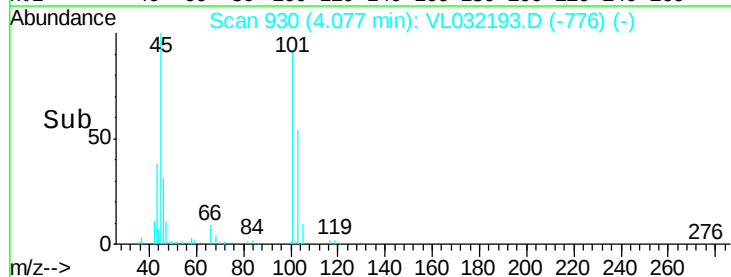
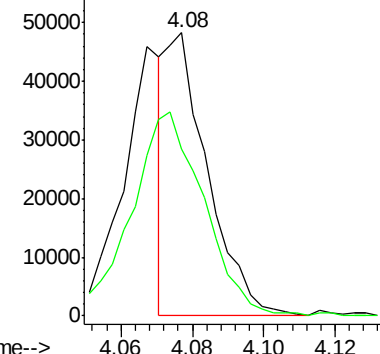
101 100

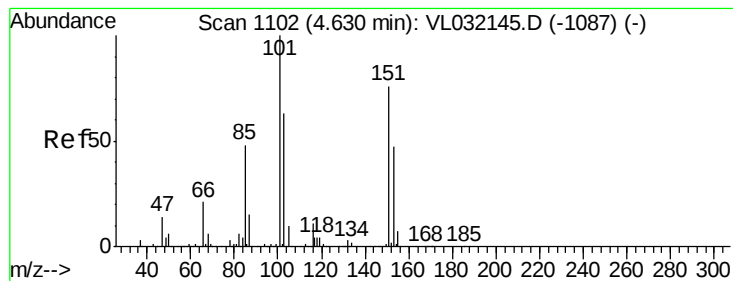
103 58.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 6.506 ppbv

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

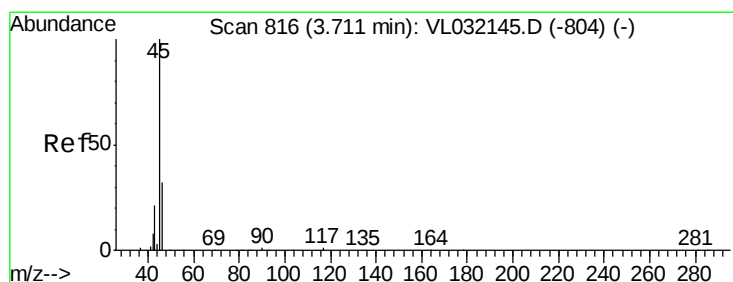
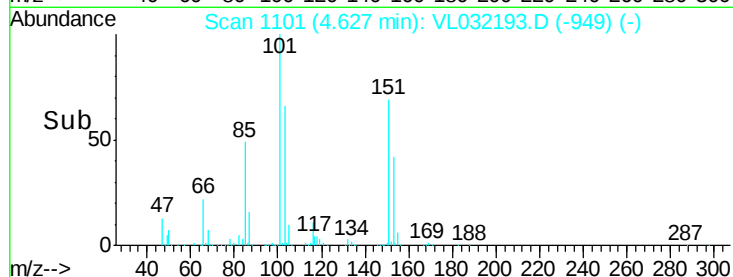
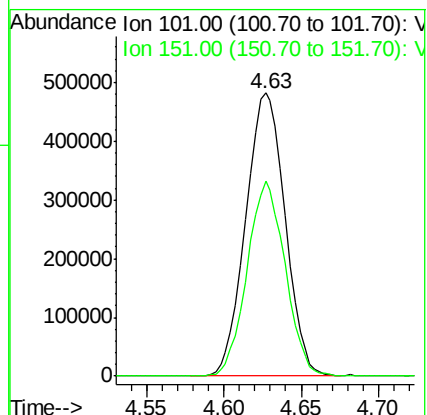
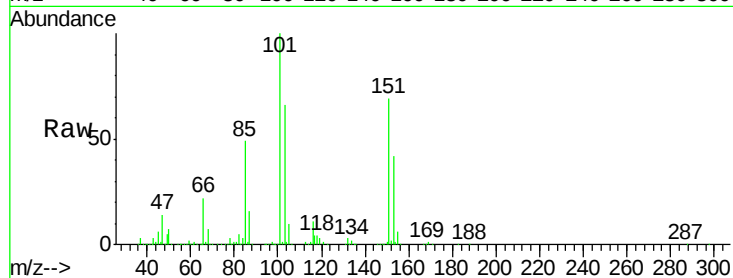
EFFLUENT

Tgt Ion:101 Resp: 857030

Ion Ratio Lower Upper

101 100

151 66.5 58.8 88.2



#13

Ethanol

Concen: 428.149 ppbv

RT: 3.74 min Scan# 826

Delta R.T. 0.02 min

Lab File: VL032193.D

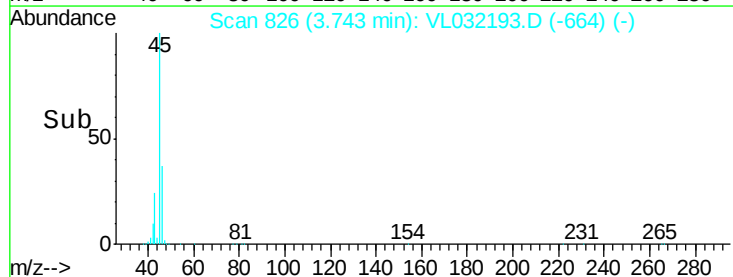
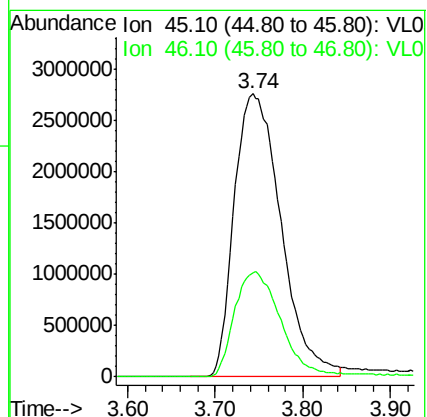
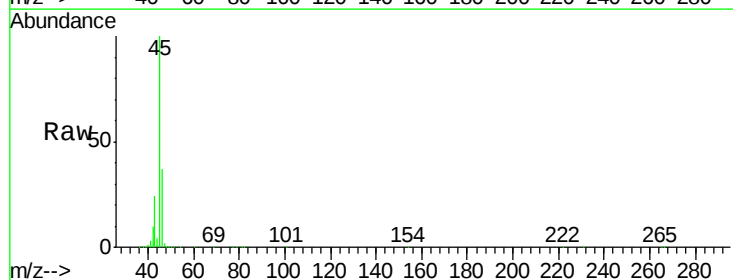
Acq: 2 Jul 2018 22:27

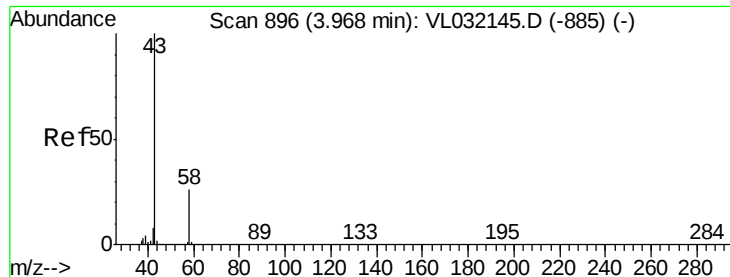
Tgt Ion: 45 Resp:10262971

Ion Ratio Lower Upper

45 100

46 37.9 14.6 58.4





#15

Acetone

Concen: 45.650 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

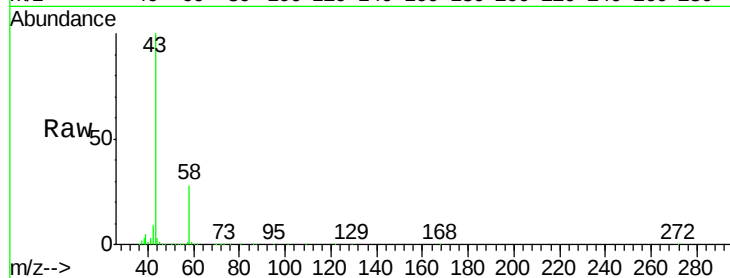
EFFLUENT

Tgt Ion: 43 Resp: 7411644

Ion Ratio Lower Upper

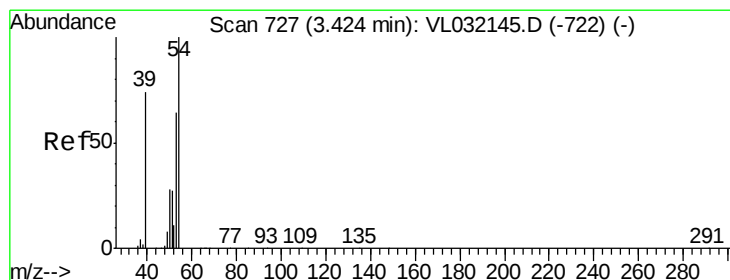
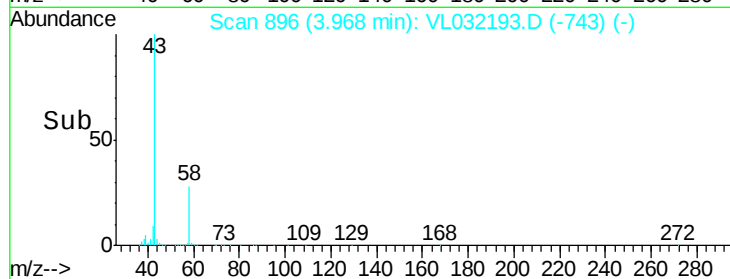
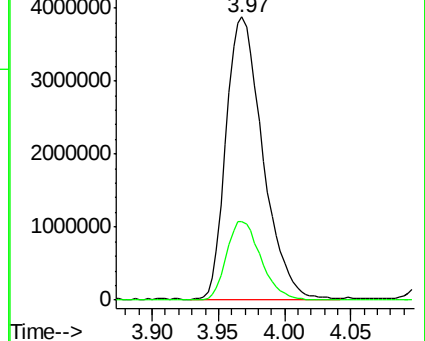
43 100

58 26.6 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 2.344 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.03 min

Lab File: VL032193.D

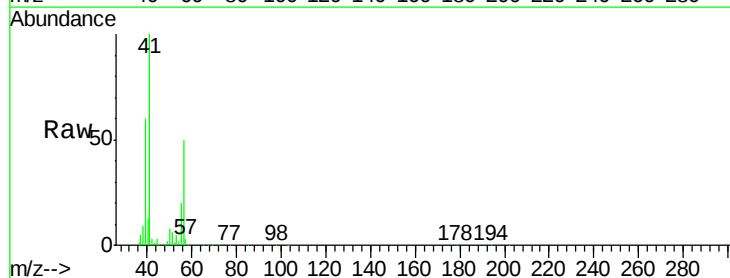
Acq: 2 Jul 2018 22:27

Tgt Ion: 39 Resp: 181604

Ion Ratio Lower Upper

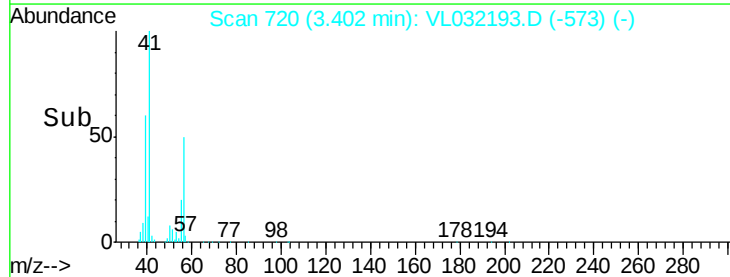
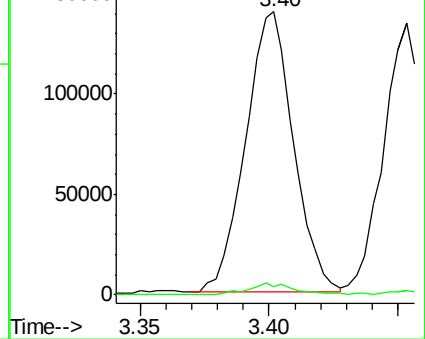
39 100

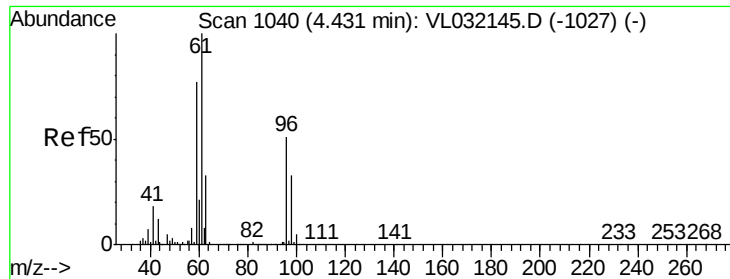
54 4.2 75.8 113.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

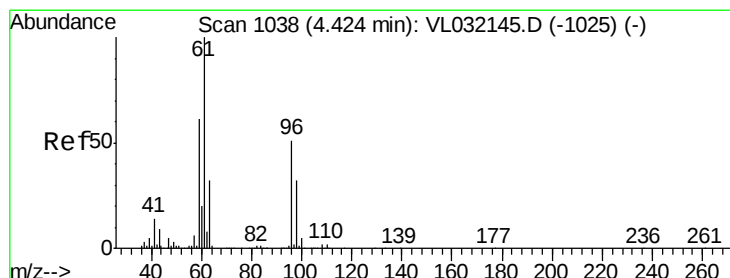
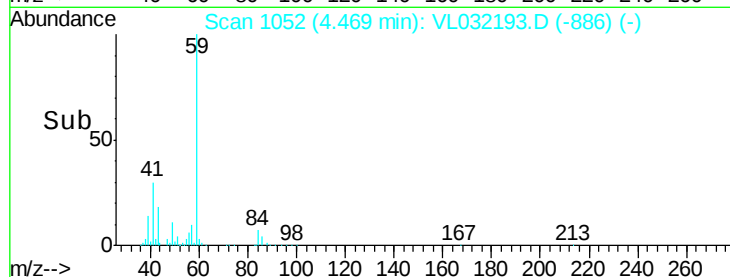
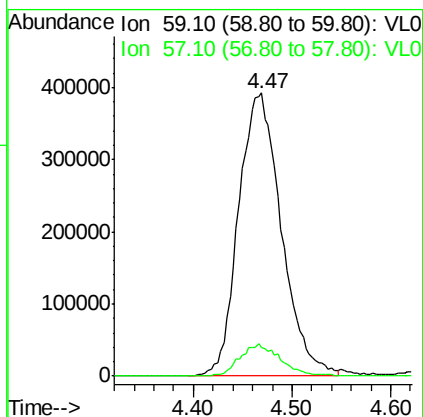
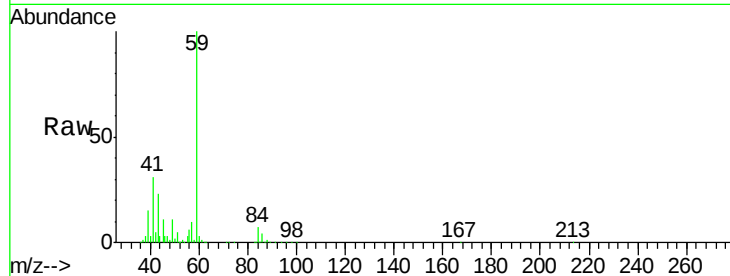




#17
 tert-Butyl alcohol
 Concen: 11.328 ppbv
 RT: 4.47 min Scan# 1052
 Delta R.T. 0.03 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

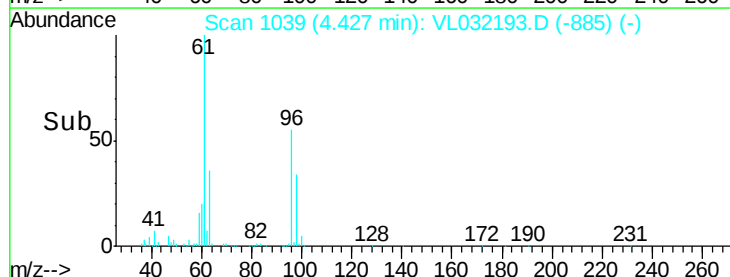
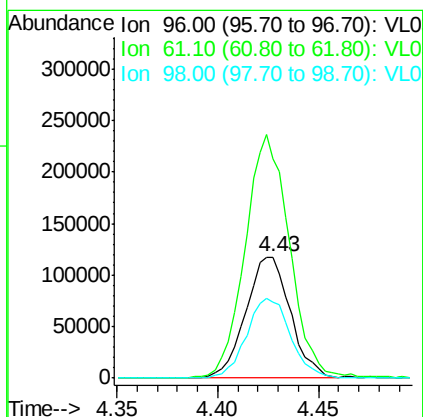
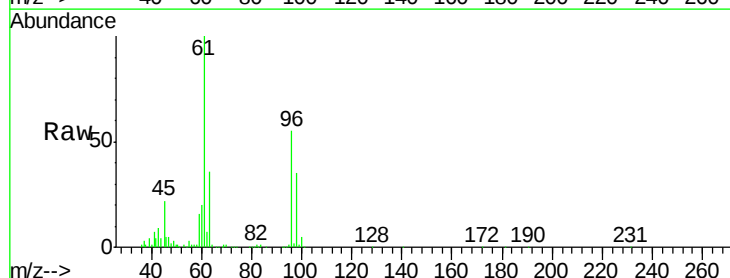
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

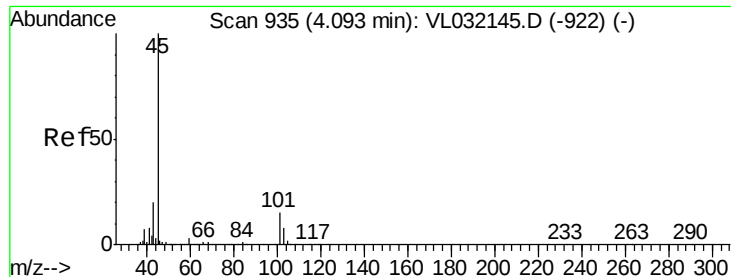
Tgt Ion: 59 Resp: 1171126
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.2 12.2



#18
 1,1-Dichloroethene
 Concen: 2.885 ppbv
 RT: 4.43 min Scan# 1039
 Delta R.T. -0.01 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

Tgt Ion: 96 Resp: 181800
 Ion Ratio Lower Upper
 96 100
 61 180.8 154.1 231.1
 98 62.6 50.3 75.5





#19

Isopropyl Alcohol

Concen: 50.557 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.03 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

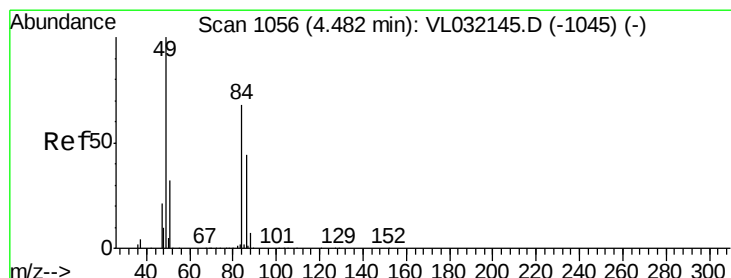
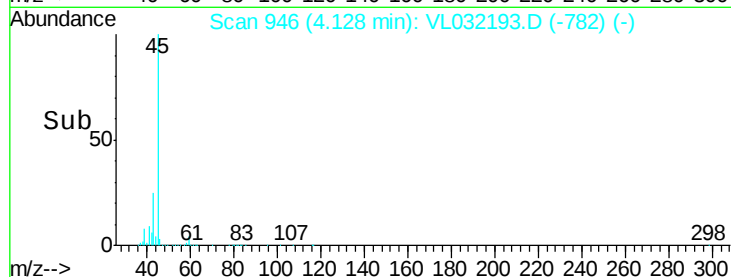
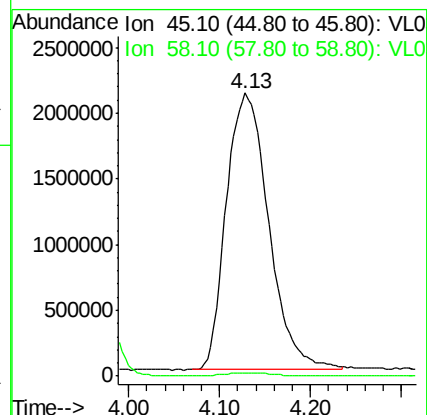
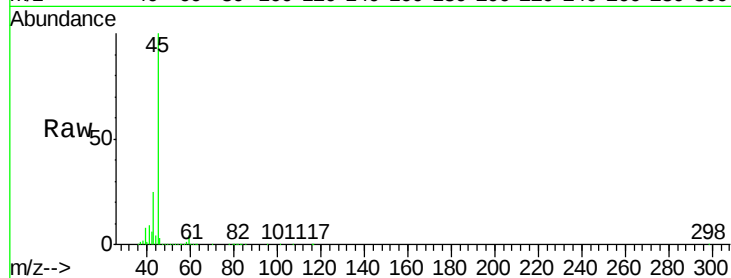
EFFLUENT

Tgt Ion: 45 Resp: 6819984

Ion Ratio Lower Upper

45 100

58 1.3 29.4 44.0#



#20

Methylene Chloride

Concen: 1.694 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Tgt Ion: 84 Resp: 100521

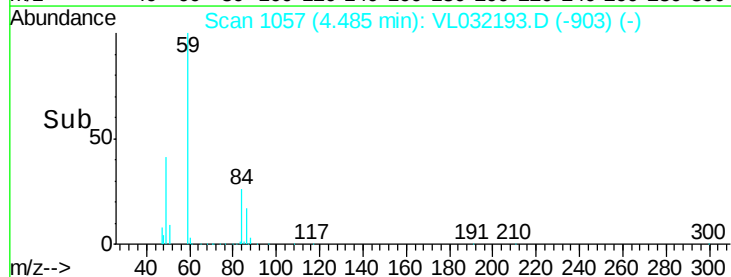
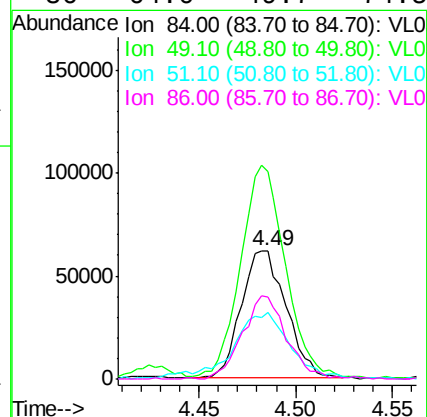
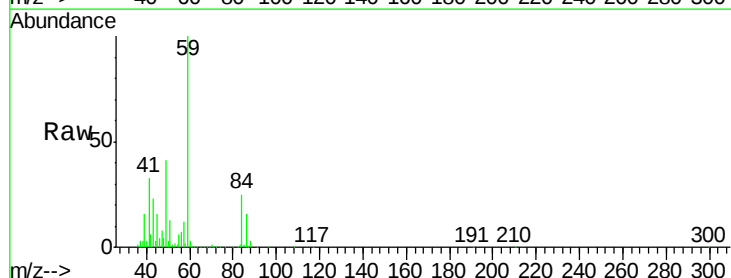
Ion Ratio Lower Upper

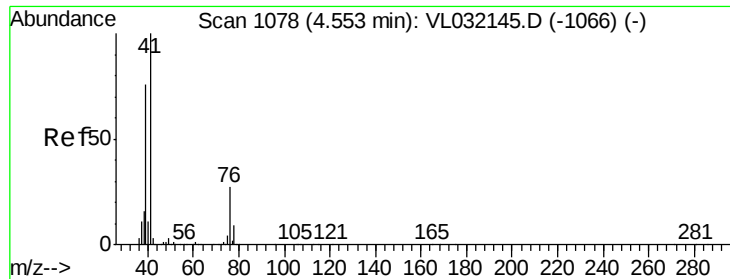
84 100

49 160.5 119.6 179.4

51 50.0 36.3 54.5

86 64.0 49.7 74.5

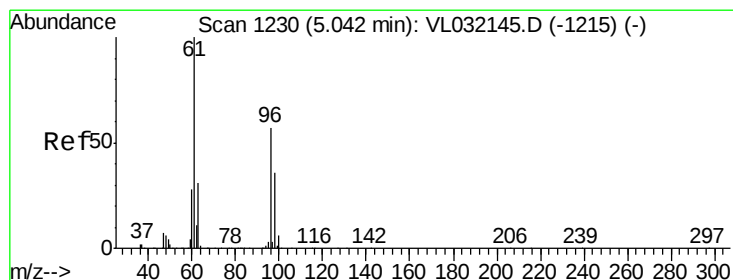
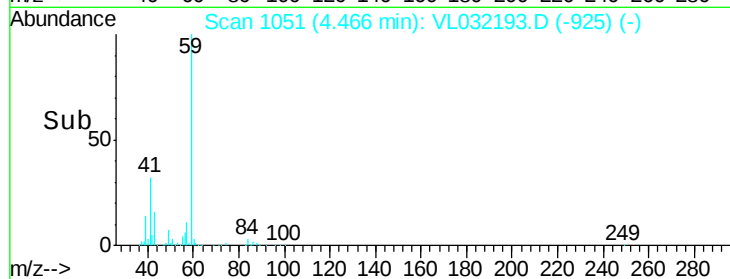
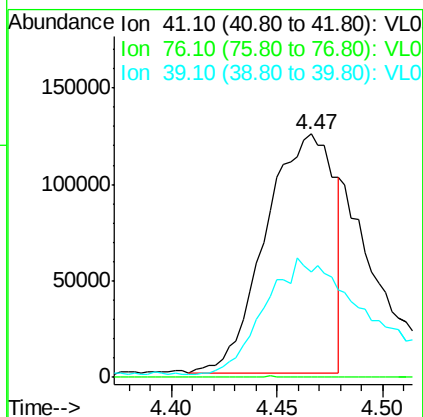
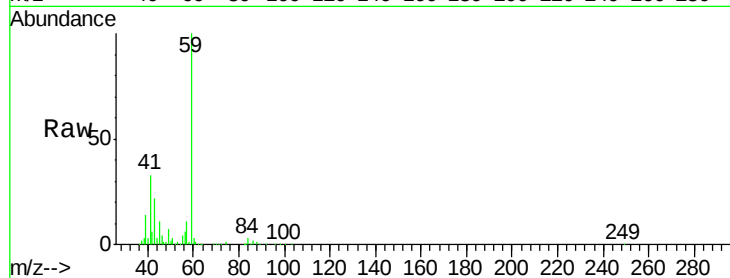




#21
 Allyl Chloride
 Concen: 2.514 ppbv
 RT: 4.47 min Scan# 1051
 Delta R.T. -0.10 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

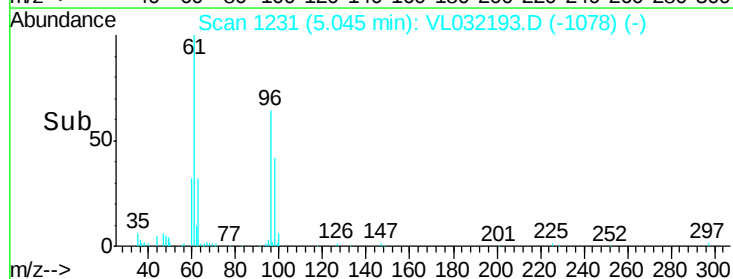
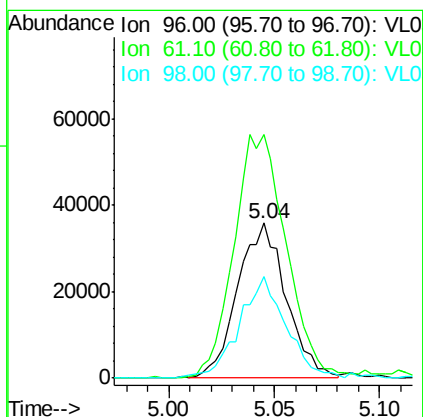
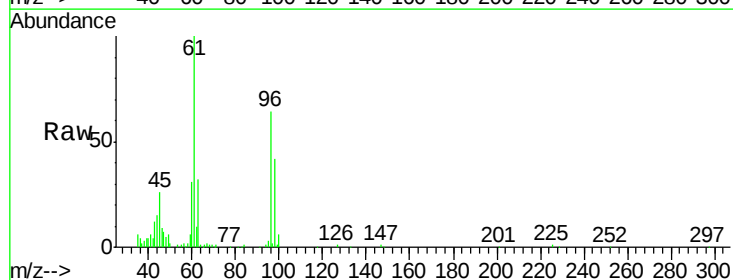
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

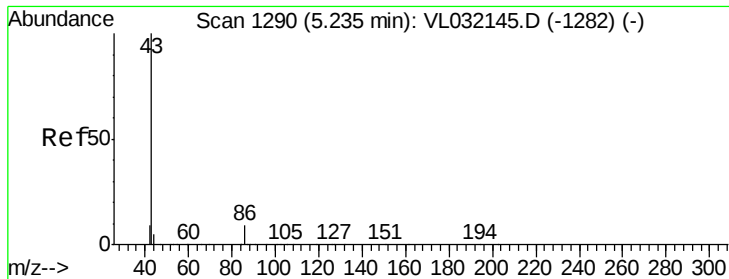
Tgt Ion: 41 Resp: 278683
 Ion Ratio Lower Upper
 41 100
 76 0.1 22.5 33.7#
 39 72.6 60.5 90.7



#22
 trans-1,2-Dichloroethene
 Concen: 0.870 ppbv
 RT: 5.04 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

Tgt Ion: 96 Resp: 57289
 Ion Ratio Lower Upper
 96 100
 61 156.6 135.2 202.8
 98 63.8 49.7 74.5





#23

Vinyl Acetate

Concen: 1.868 ppbv

RT: 5.22 min Scan# 1287

Delta R.T. -0.02 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

Tgt Ion: 43 Resp: 549977

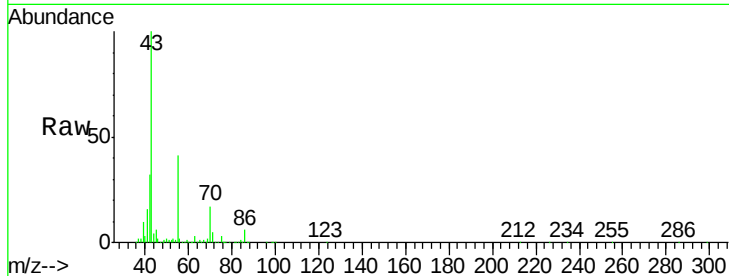
Ion Ratio Lower Upper

43 100

86 5.2 6.2 9.4#

42 31.8 6.9 10.3#

44 2.2 3.8 5.8#



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

400000

300000

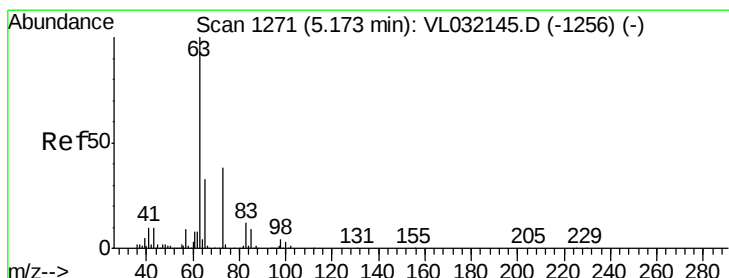
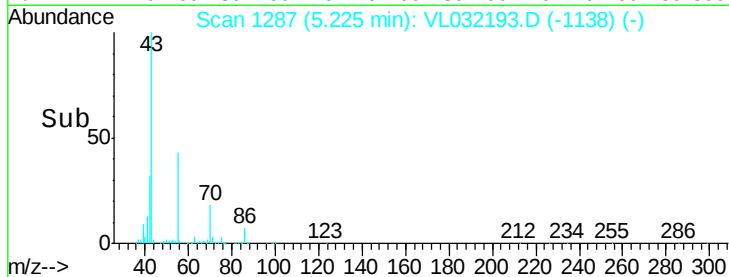
200000

100000

0

5.15 5.20 5.25

Time-->



#24

1,1-Dichloroethane

Concen: 15.799 ppbv

RT: 5.17 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

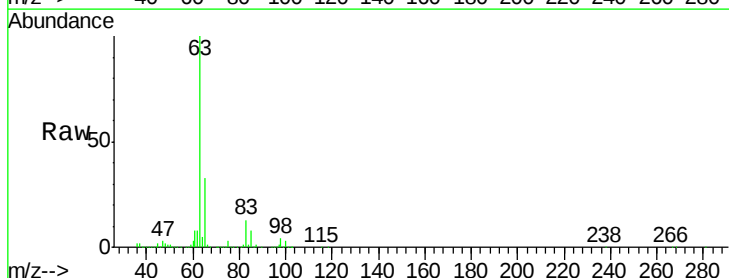
Tgt Ion: 63 Resp: 2979800

Ion Ratio Lower Upper

63 100

98 4.4 2.4 7.2

100 2.9 1.7 5.0



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

2000000

1500000

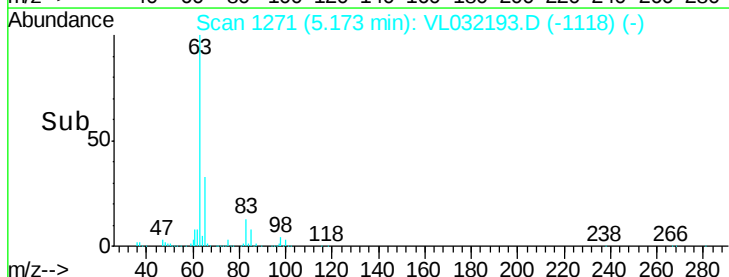
1000000

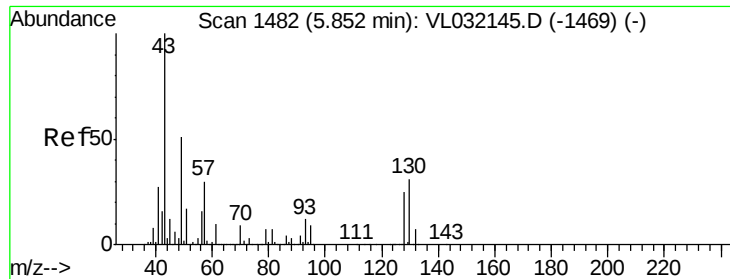
500000

0

5.10 5.15 5.20 5.25

Time-->

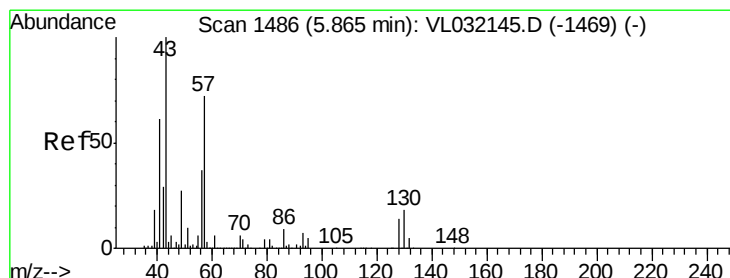
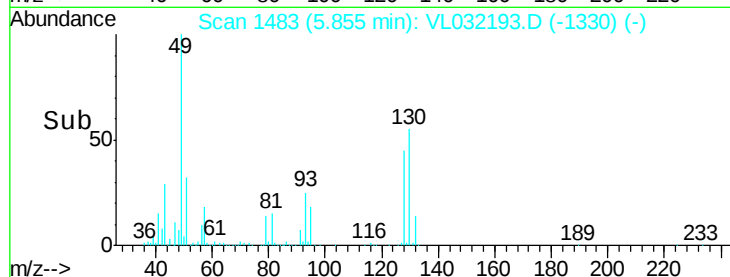
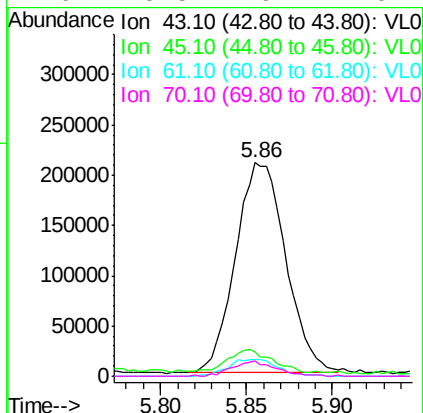
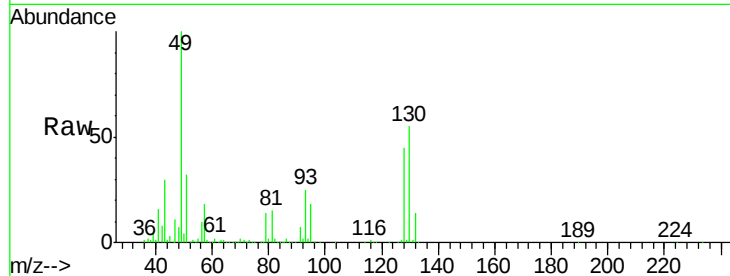




#25
Ethyl Acetate
Concen: 1.263 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

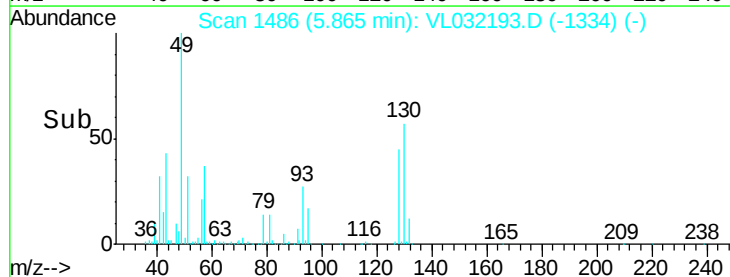
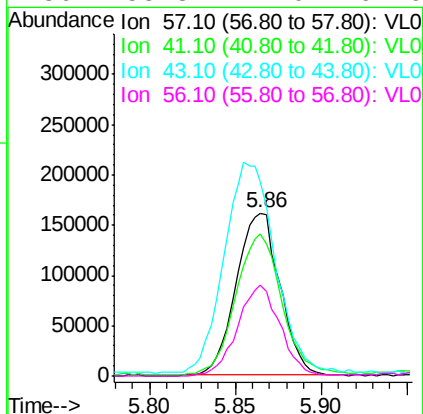
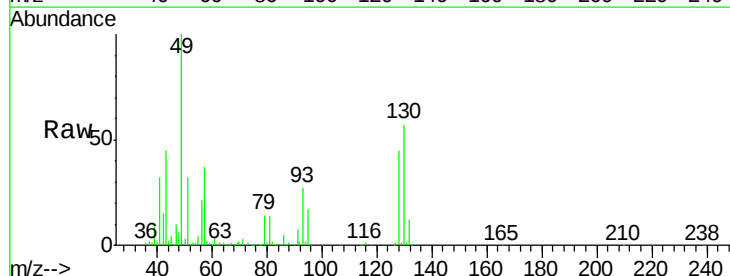
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

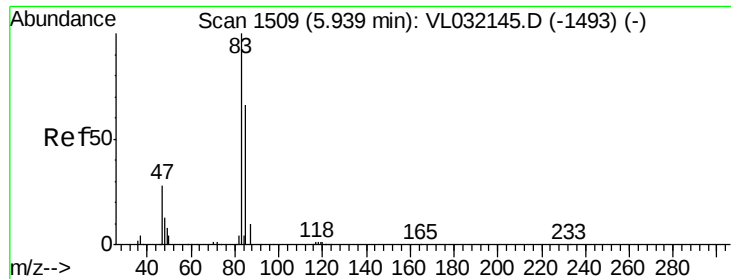
Tgt Ion:	43	Resp:	424325
Ion	Ratio	Lower	Upper
43	100		
45	13.1	7.8	11.8#
61	8.1	7.4	11.0
70	6.5	6.1	9.1



#26
Hexane
Concen: 1.840 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

Tgt Ion:	57	Resp:	284558
Ion	Ratio	Lower	Upper
57	100		
41	90.6	68.6	103.0
43	155.4	168.6	252.8#
56	55.3	41.0	61.6

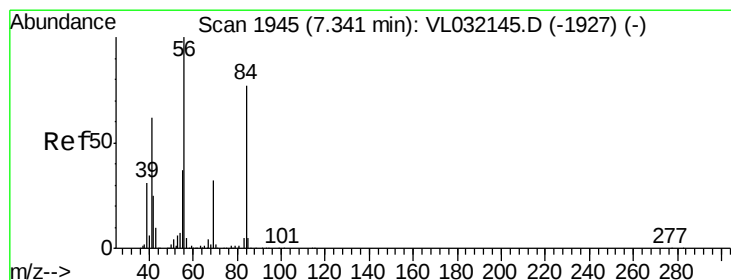
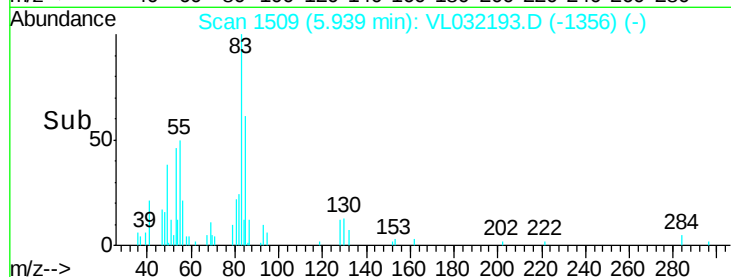
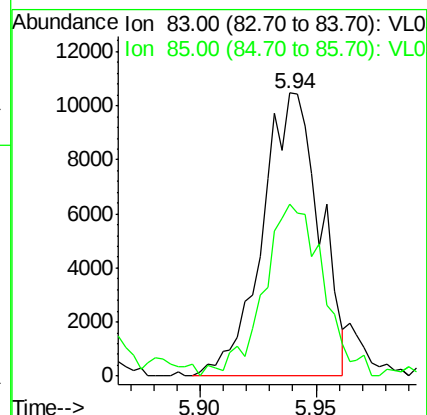
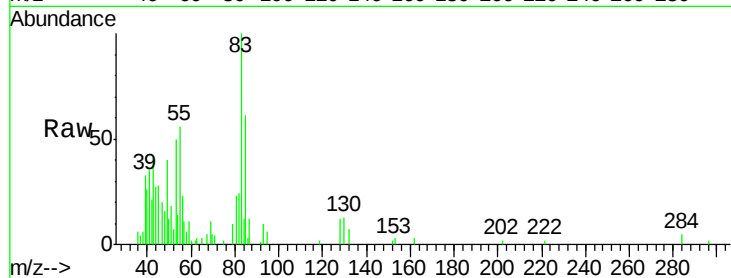




#29
Chloroform
Concen: 0.080 ppbv
RT: 5.94 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

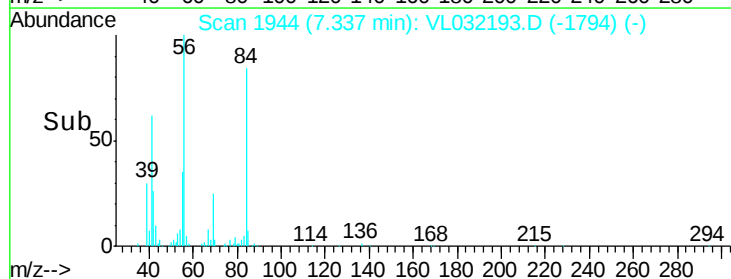
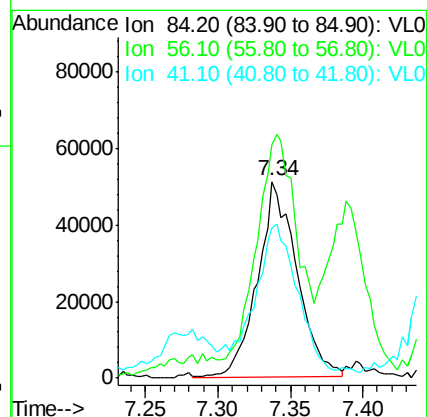
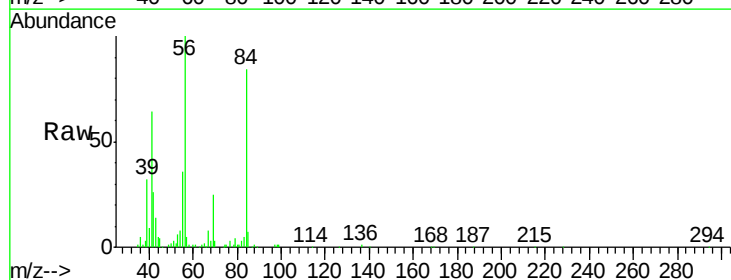
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

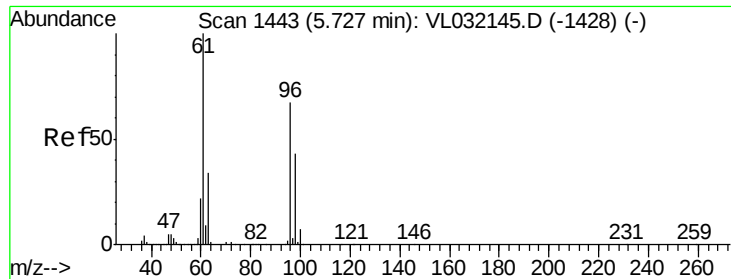
Tgt Ion: 83 Resp: 18057
Ion Ratio Lower Upper
83 100
85 56.6 51.6 77.4



#30
Cyclohexane
Concen: 0.662 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.02 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

Tgt Ion: 84 Resp: 96593
Ion Ratio Lower Upper
84 100
56 145.1 109.1 163.7
41 86.1 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 0.182 ppbv

RT: 5.73 min Scan# 1443

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

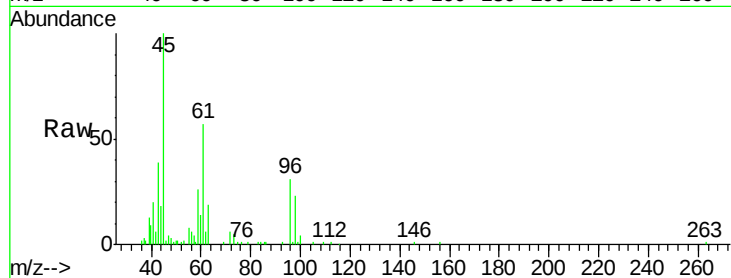
Tgt Ion: 61 Resp: 28148

Ion Ratio Lower Upper

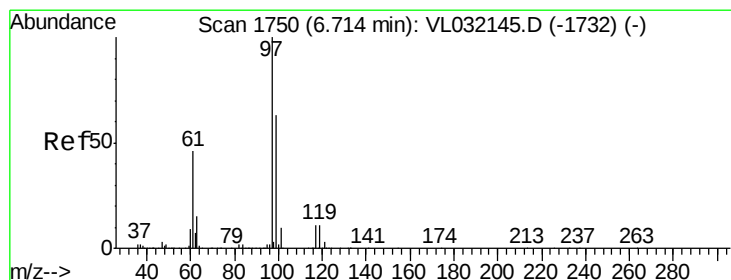
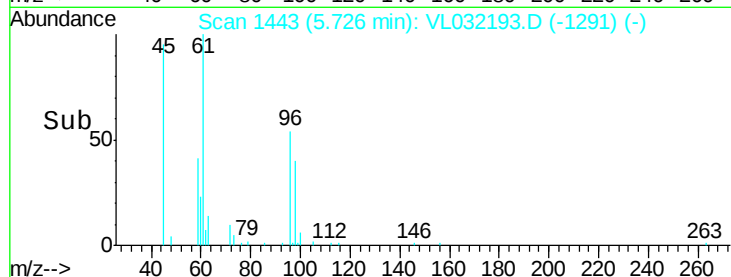
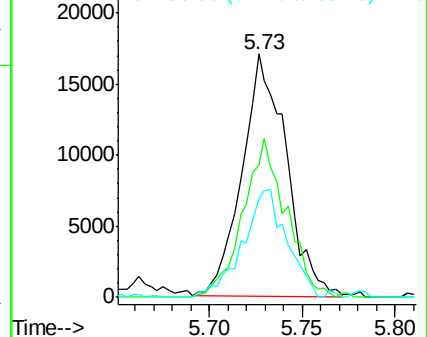
61 100

96 55.0 54.2 81.4

98 41.0 34.6 52.0



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 67.429 ppbv

RT: 6.71 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

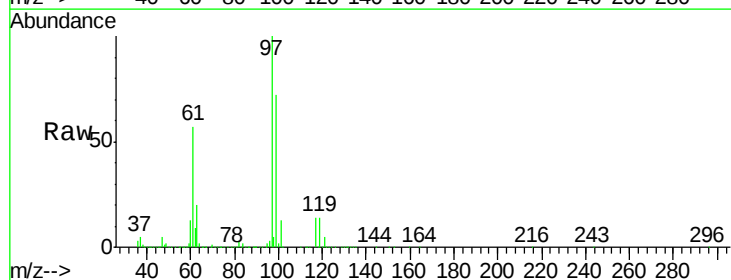
Tgt Ion: 97 Resp:15915636

Ion Ratio Lower Upper

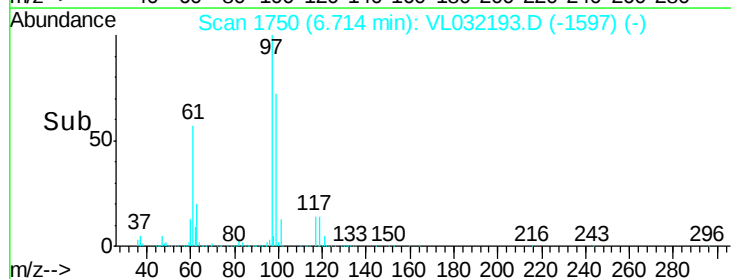
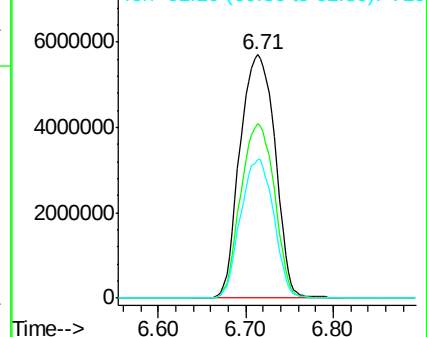
97 100

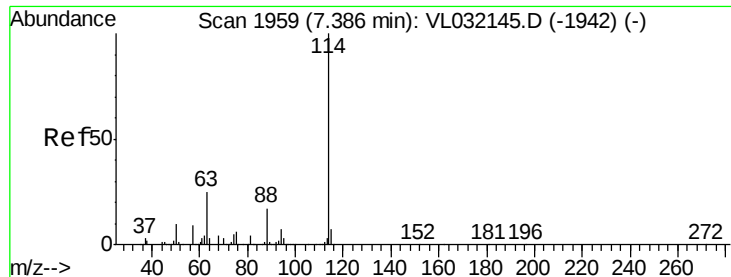
99 68.9 51.3 76.9

61 54.0 38.4 57.6



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

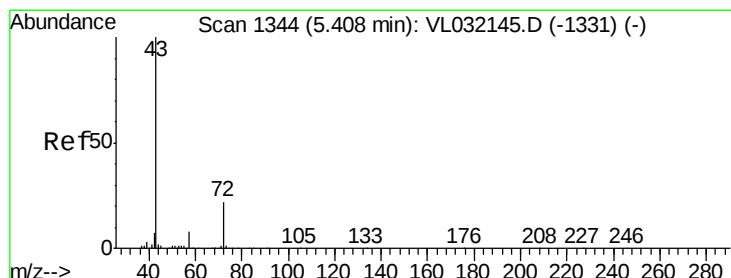
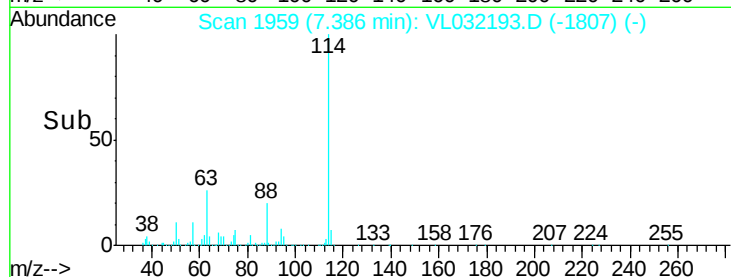
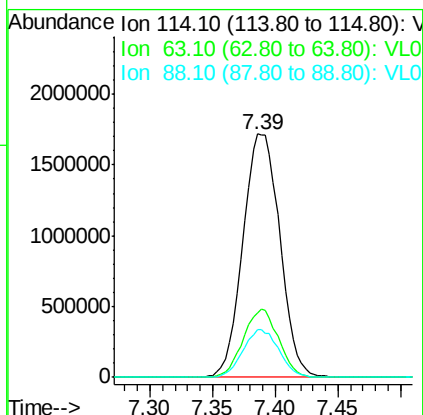
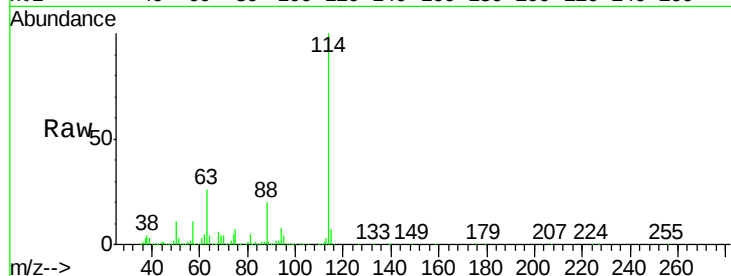




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.39 min Scan# 1959
 Delta R.T. -0.01 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

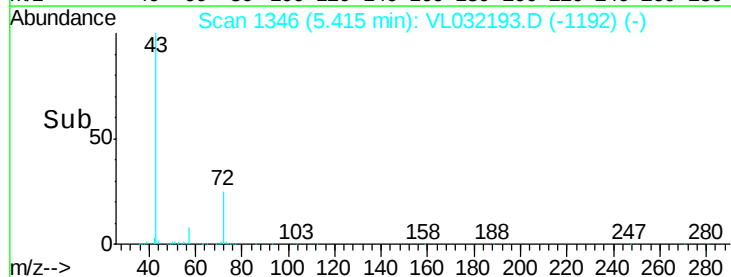
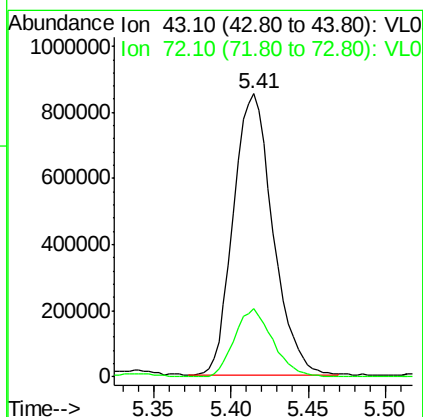
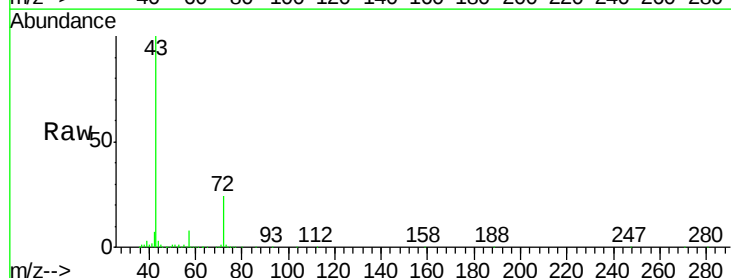
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

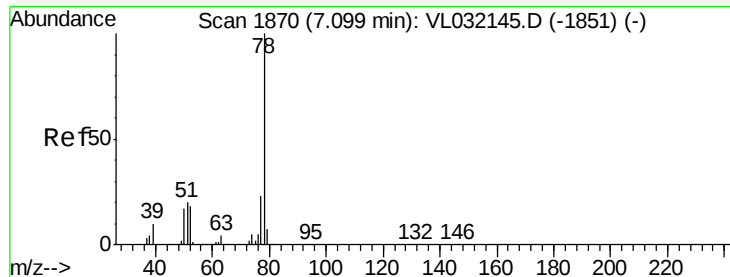
Tgt Ion:114 Resp: 3510022
 Ion Ratio Lower Upper
 114 100
 63 26.9 19.1 28.7
 88 19.1 13.9 20.9



#34
 2-Butanone
 Concen: 6.780 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

Tgt Ion: 43 Resp: 1510456
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.4 27.6





#36

Benzene

Concen: 0.566 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

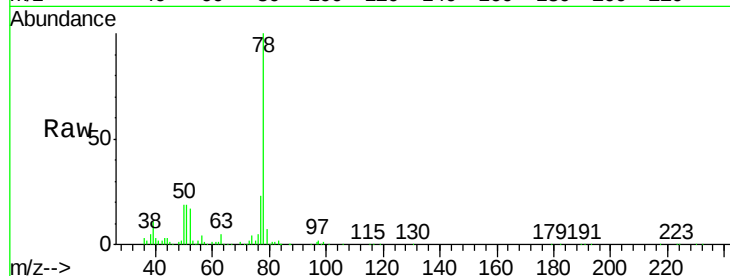
Tgt Ion: 78 Resp: 192327

Ion Ratio Lower Upper

78 100

77 22.4 17.7 26.5

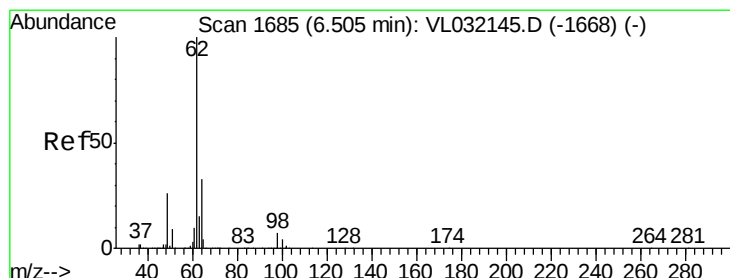
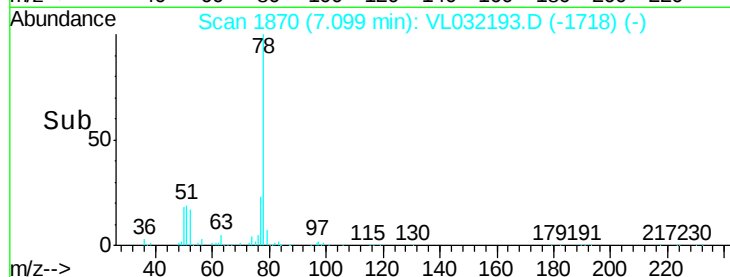
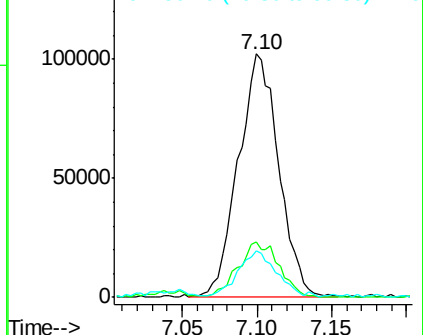
50 18.5 14.0 21.0



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 4.353 ppbv

RT: 6.71 min Scan# 1749

Delta R.T. 0.19 min

Lab File: VL032193.D

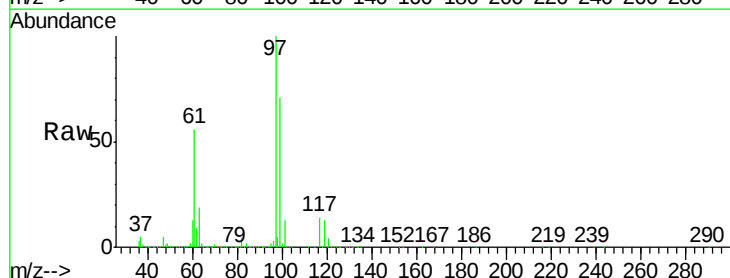
Acq: 2 Jul 2018 22:27

Tgt Ion: 62 Resp: 736695

Ion Ratio Lower Upper

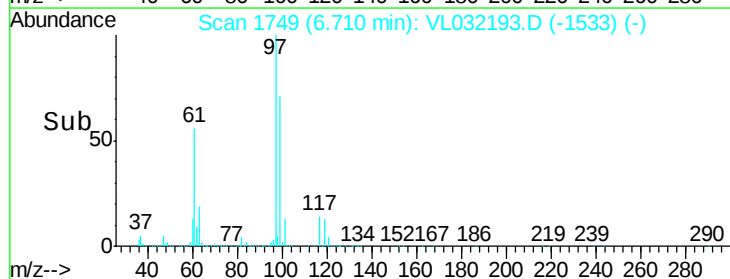
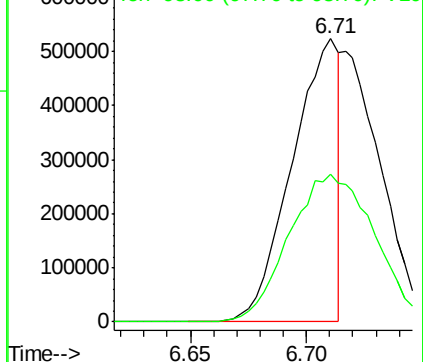
62 100

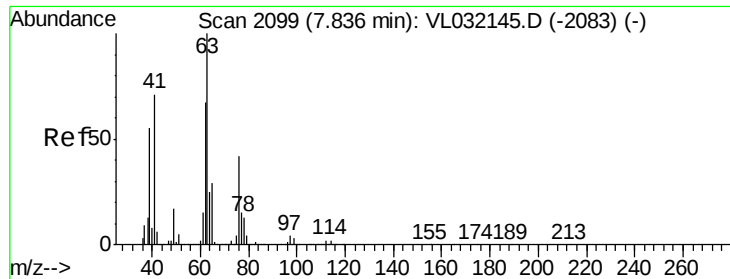
98 95.0 5.8 8.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 6.934 ppbv

RT: 7.39 min Scan# 1960

Delta R.T. -0.46 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

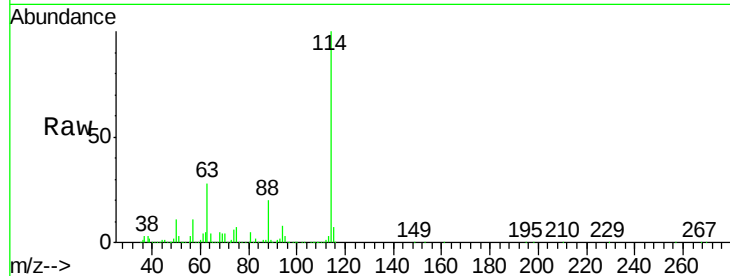
Tgt Ion: 63 Resp: 929107

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

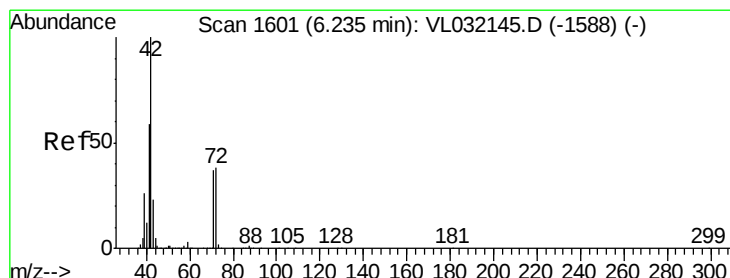
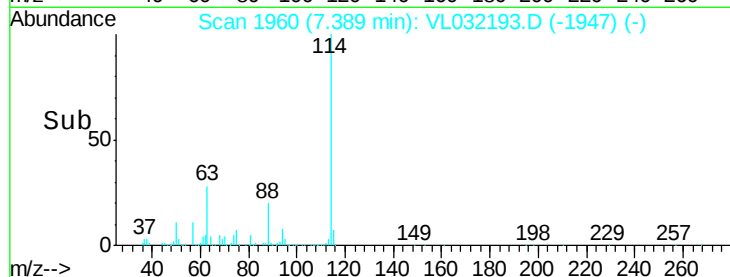
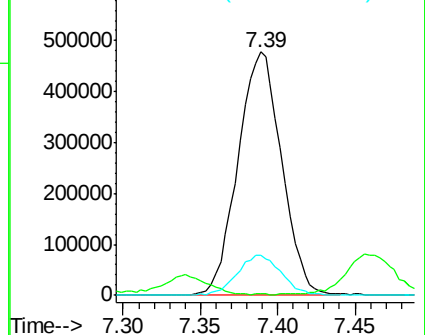
62 16.4 54.8 82.2#



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



#41

Tetrahydrofuran

Concen: 0.525 ppbv

RT: 6.24 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

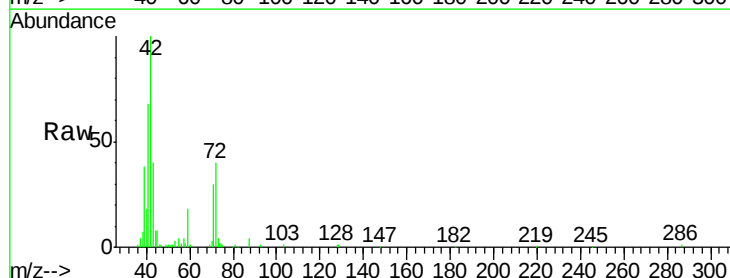
Tgt Ion: 42 Resp: 70074

Ion Ratio Lower Upper

42 100

72 47.8 31.1 46.7#

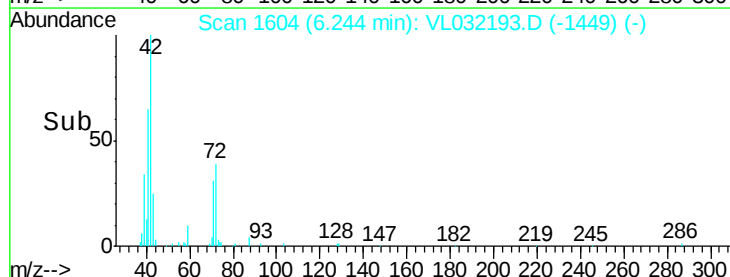
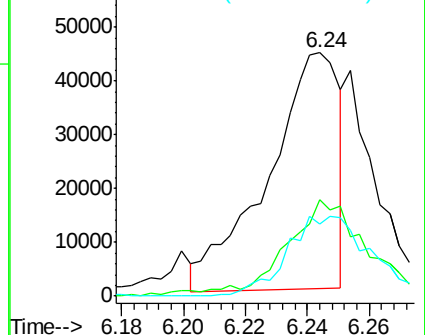
71 41.1 29.5 44.3

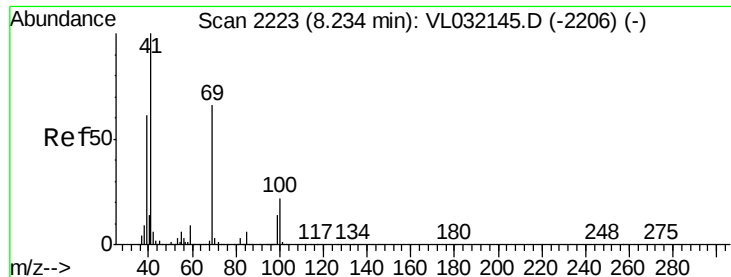


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

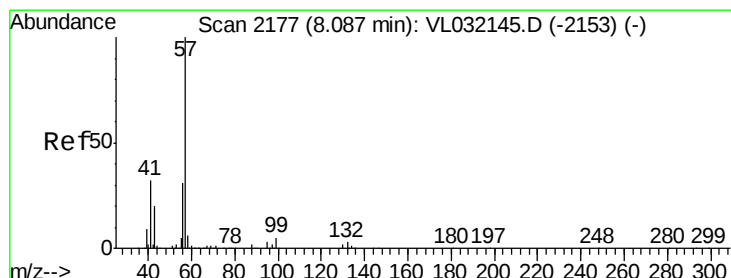
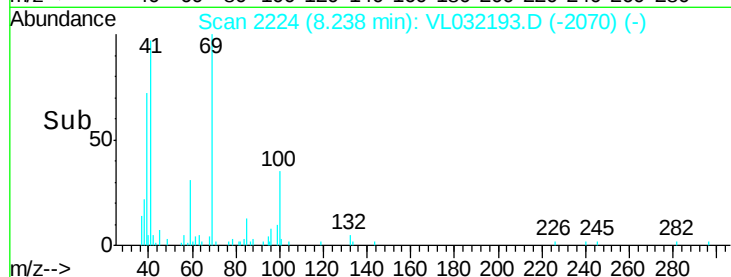
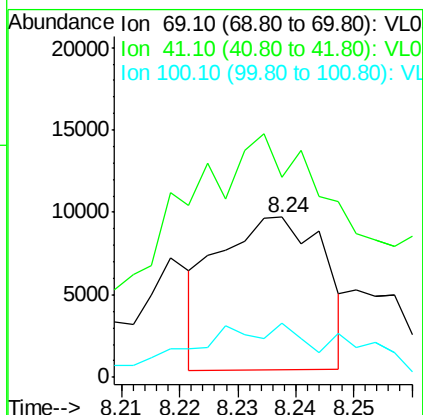
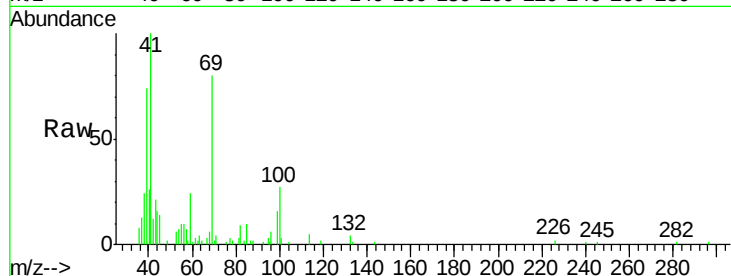




#43
Methyl Methacrylate
Concen: 0.084 ppbv
RT: 8.24 min Scan# 2224
Delta R.T. -0.01 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

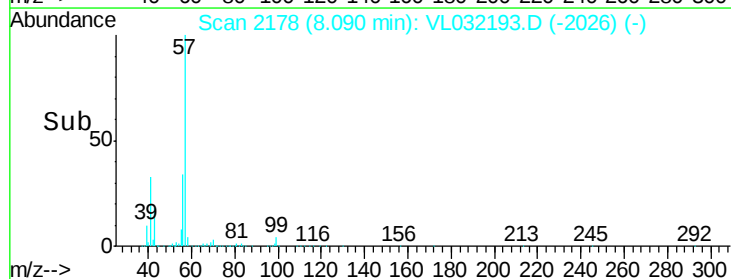
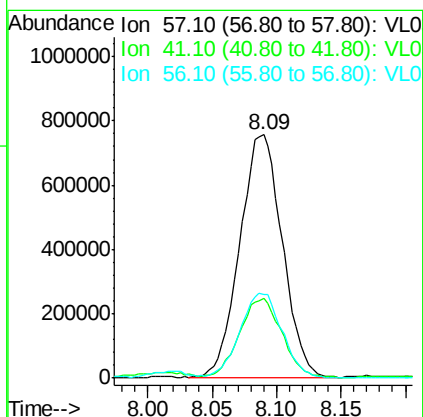
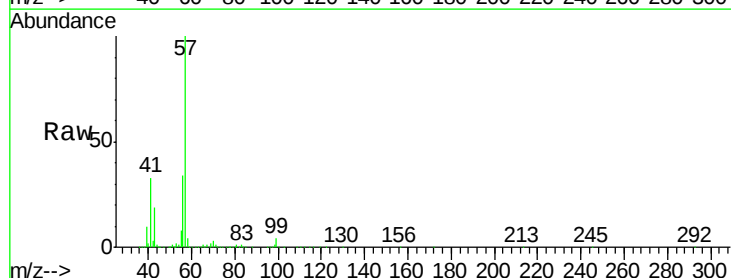
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

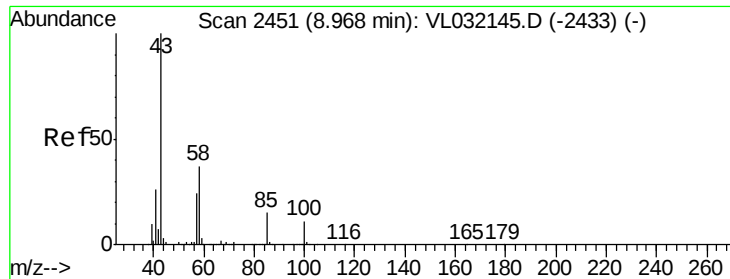
Tgt Ion: 69 Resp: 11794
Ion Ratio Lower Upper
69 100
41 504.2 118.2 177.4#
100 53.3 27.4 41.2#



#44
2,2,4-Trimethylpentane
Concen: 2.906 ppbv
RT: 8.09 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

Tgt Ion: 57 Resp: 1727533
Ion Ratio Lower Upper
57 100
41 33.2 24.3 36.5
56 34.8 25.1 37.7

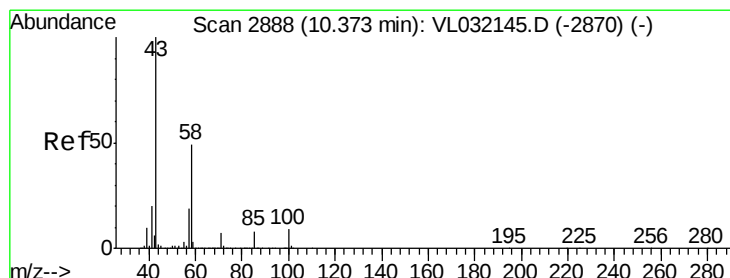
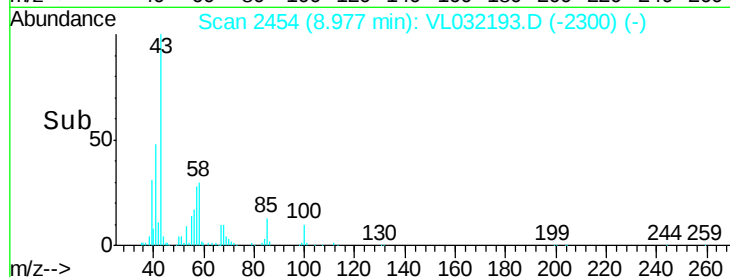
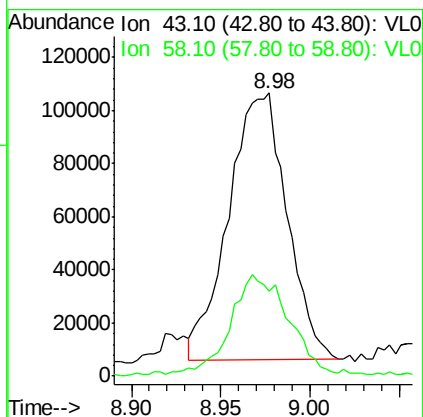
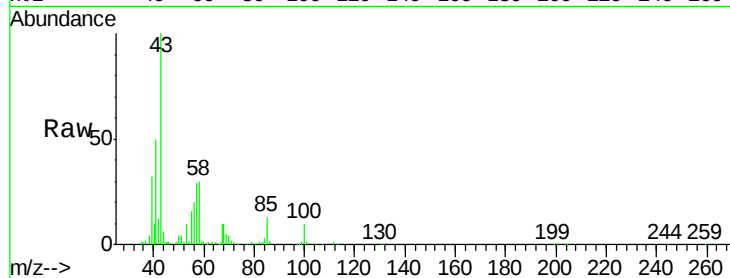




#50
 4-Methyl-2-Pentanone
 Concen: 0.629 ppbv
 RT: 8.98 min Scan# 2454
 Delta R.T. -0.01 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

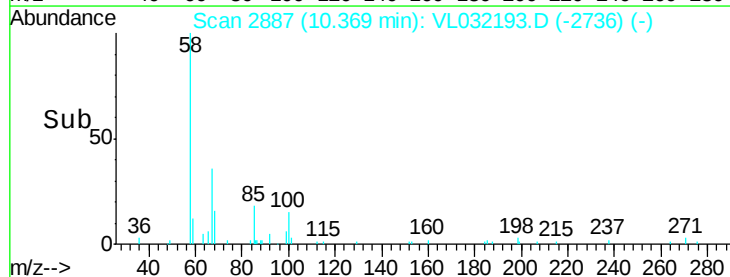
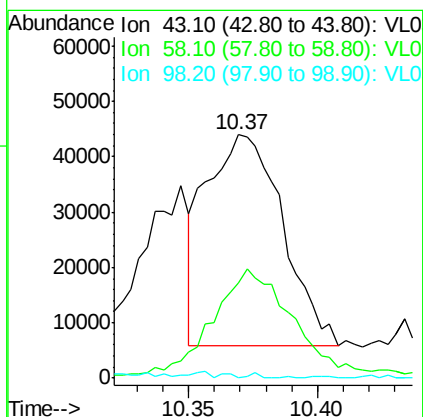
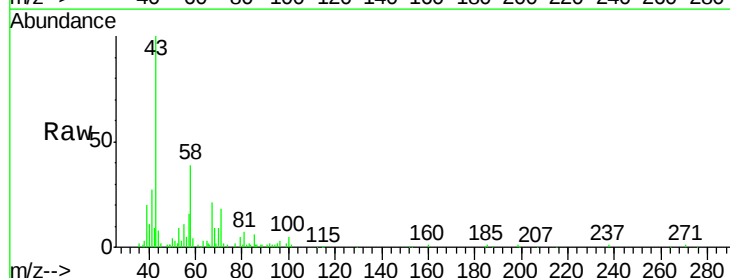
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

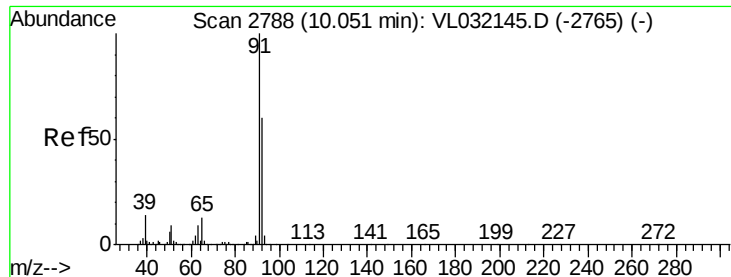
Tgt Ion: 43 Resp: 229455
 Ion Ratio Lower Upper
 43 100
 58 38.7 29.8 44.6



#51
 2-Hexanone
 Concen: 0.262 ppbv
 RT: 10.37 min Scan# 2887
 Delta R.T. -0.02 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

Tgt Ion: 43 Resp: 79225
 Ion Ratio Lower Upper
 43 100
 58 57.0 40.6 60.8
 98 0.0 0.1 0.1#





#53

Toluene

Concen: 4.932 ppbv

RT: 10.05 min Scan# 2787

Delta R.T. -0.02 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

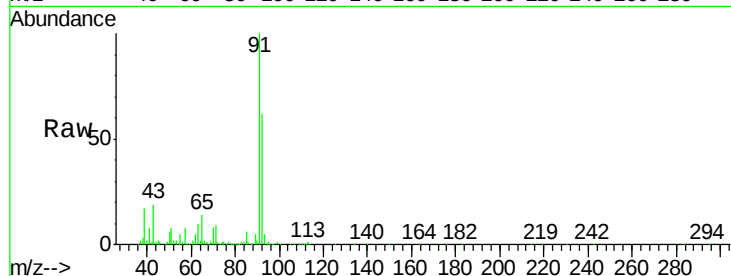
EFFLUENT

Tgt Ion: 91 Resp: 2024993

Ion Ratio Lower Upper

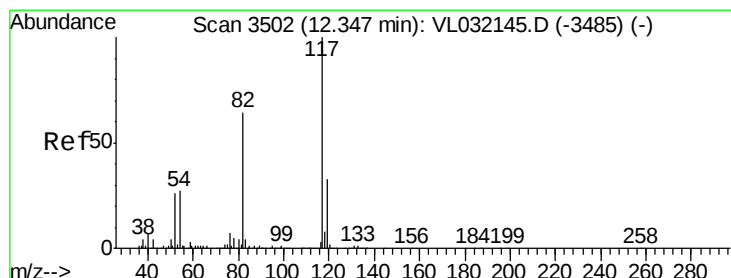
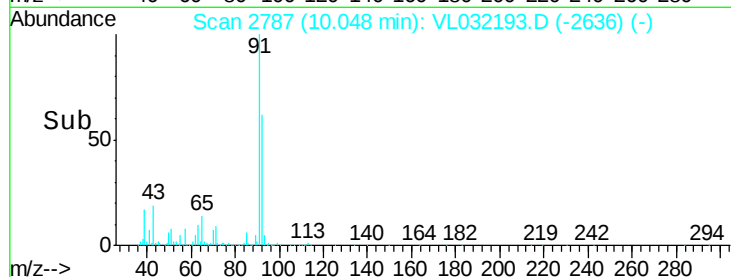
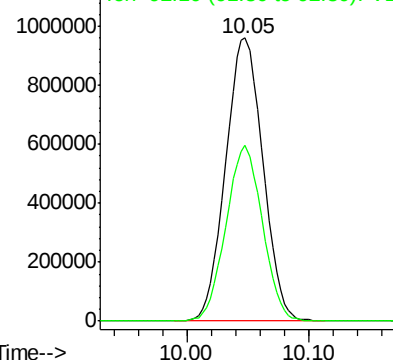
91 100

92 60.8 49.2 73.8



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: 12.34 min Scan# 3501

Delta R.T. -0.02 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

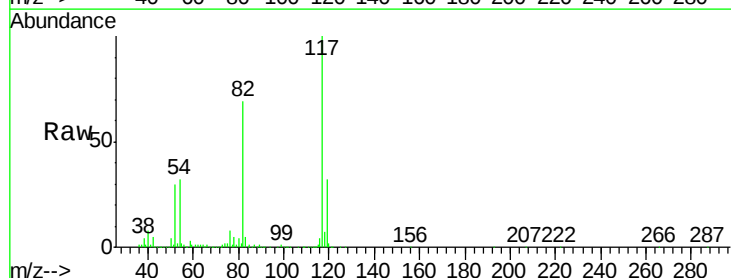
Tgt Ion: 117 Resp: 3278731

Ion Ratio Lower Upper

117 100

82 68.9 47.8 71.8

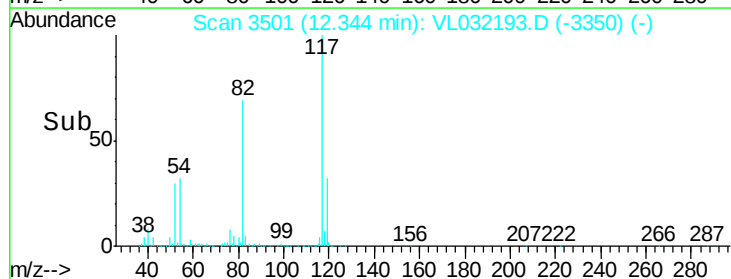
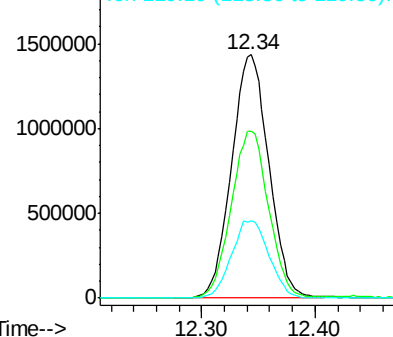
119 32.4 43.3 64.9#

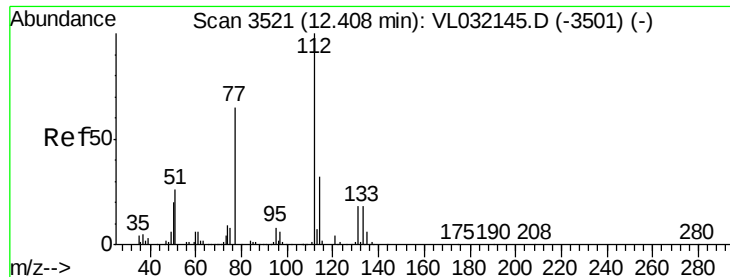


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

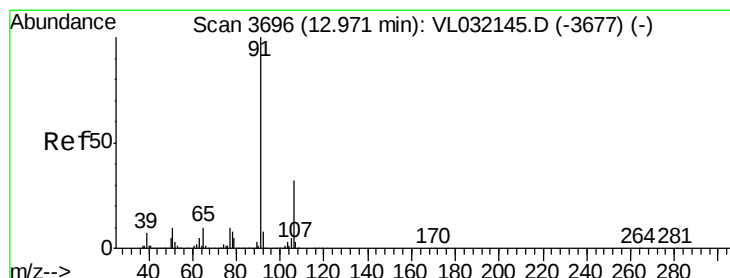
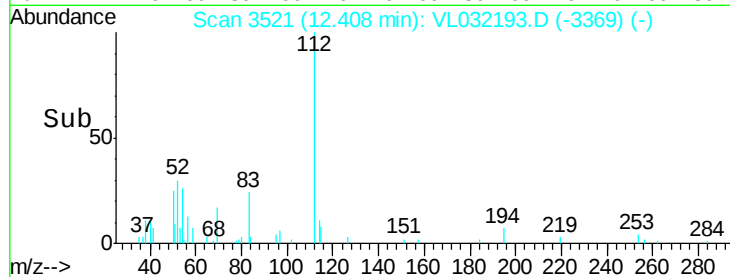
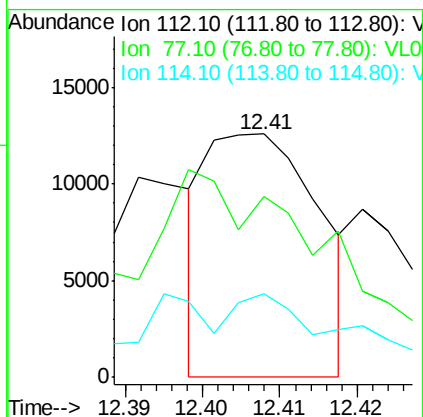
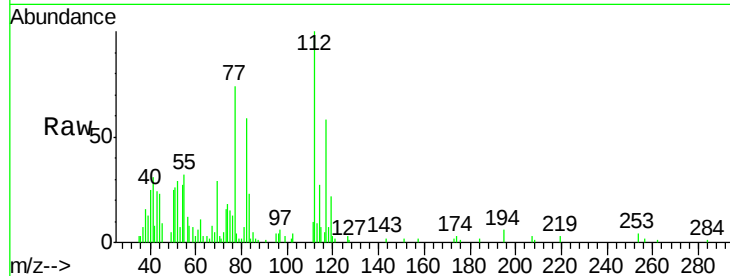




#57
Chlorobenzene
Concen: 0.044 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. -0.01 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

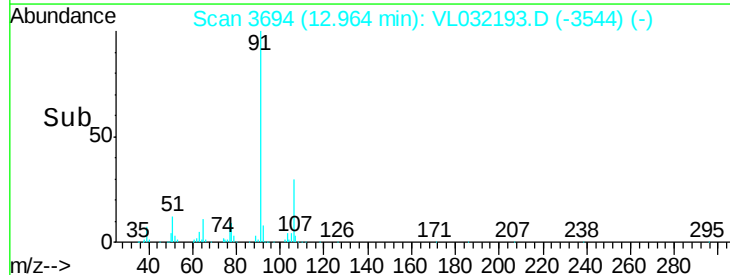
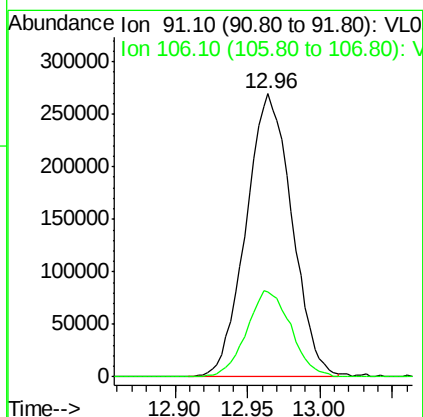
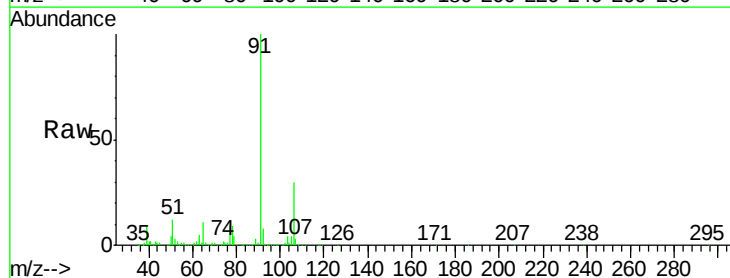
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

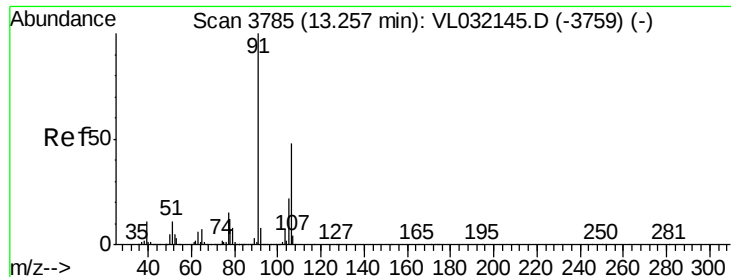
Tgt Ion: 112 Resp: 12596
Ion Ratio Lower Upper
112 100
77 20.7 52.6 78.8#
114 35.0 27.9 34.1#



#58
Ethyl Benzene
Concen: 1.119 ppbv
RT: 12.96 min Scan# 3694
Delta R.T. -0.02 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

Tgt Ion: 91 Resp: 591172
Ion Ratio Lower Upper
91 100
106 30.0 26.5 39.7





#59

m/p-Xylene

Concen: 4.139 ppbv

RT: 13.22 min Scan# 3774

Delta R.T. -0.05 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

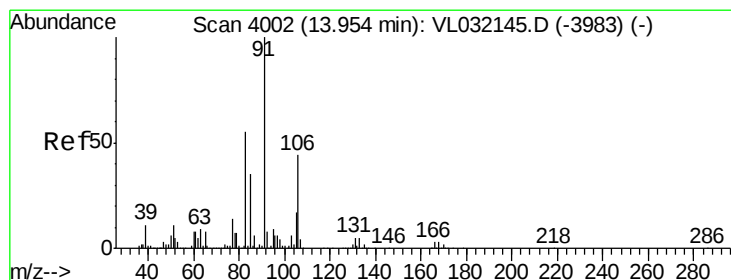
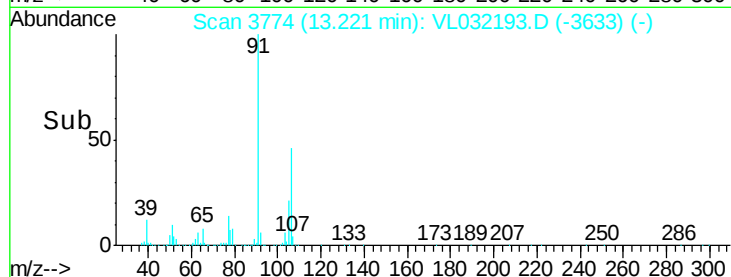
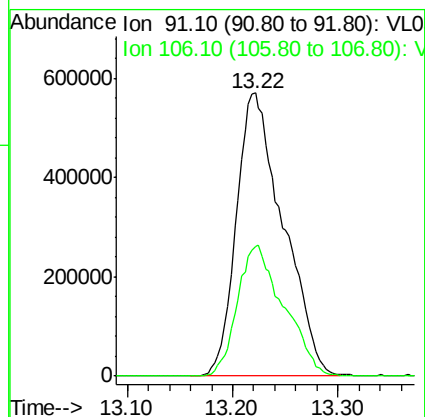
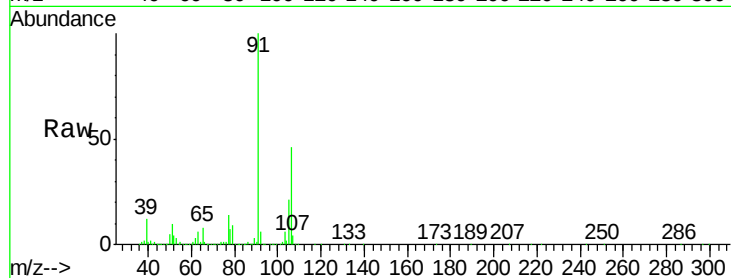
EFFLUENT

Tgt Ion: 91 Resp: 1752899

Ion Ratio Lower Upper

91 100

106 46.0 38.6 58.0



#60

o-Xylene

Concen: 1.682 ppbv

RT: 13.95 min Scan# 4000

Delta R.T. -0.02 min

Lab File: VL032193.D

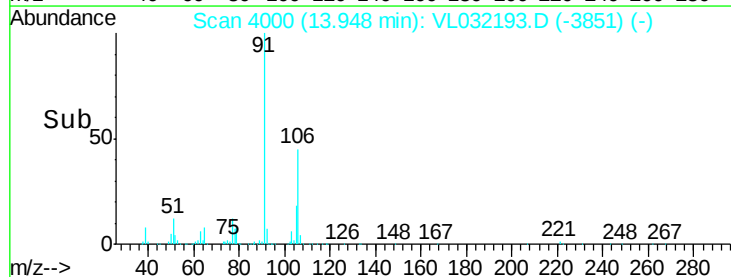
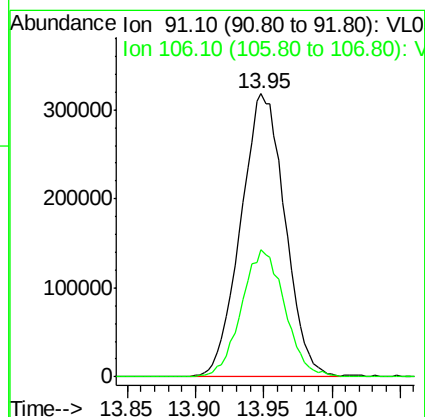
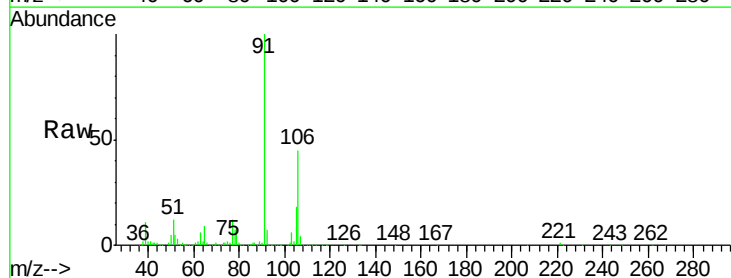
Acq: 2 Jul 2018 22:27

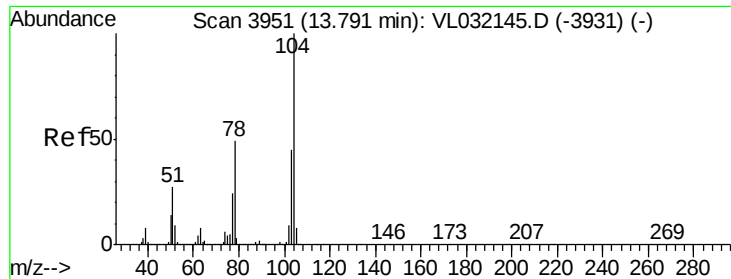
Tgt Ion: 91 Resp: 710483

Ion Ratio Lower Upper

91 100

106 44.6 23.3 69.8





#61

Styrene

Concen: 0.133 ppbv

RT: 13.78 min Scan# 3949

Delta R.T. -0.02 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

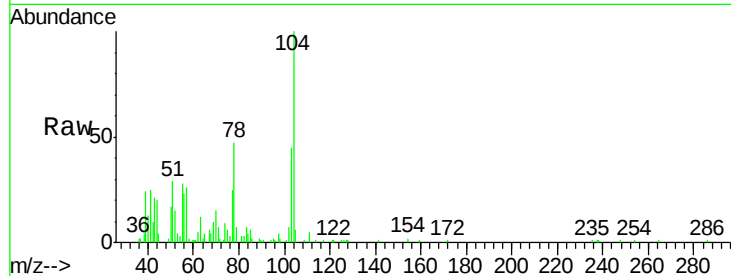
Tgt Ion:104 Resp: 45958

Ion Ratio Lower Upper

104 100

78 59.8 37.9 56.9#

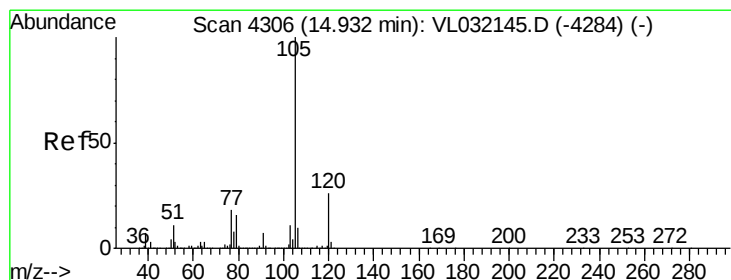
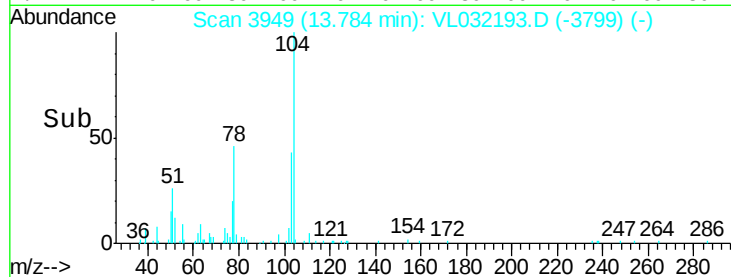
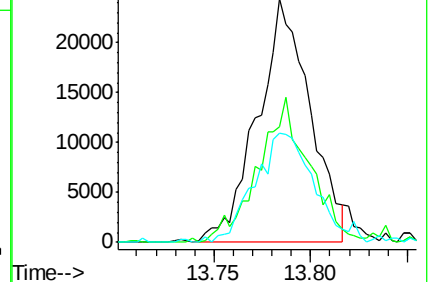
103 51.7 36.6 55.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.068 ppbv

RT: 14.93 min Scan# 4305

Delta R.T. -0.02 min

Lab File: VL032193.D

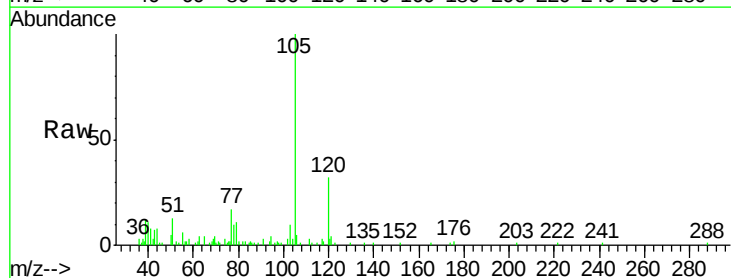
Acq: 2 Jul 2018 22:27

Tgt Ion:105 Resp: 44206

Ion Ratio Lower Upper

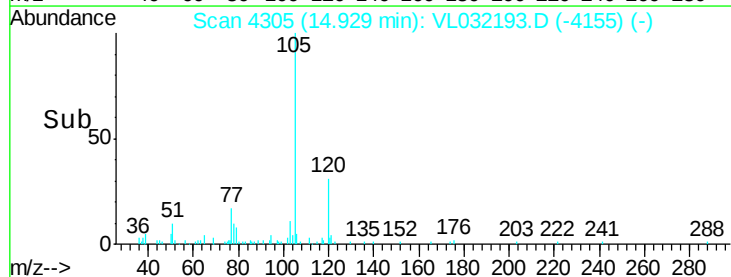
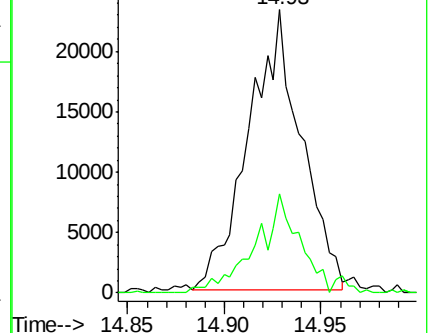
105 100

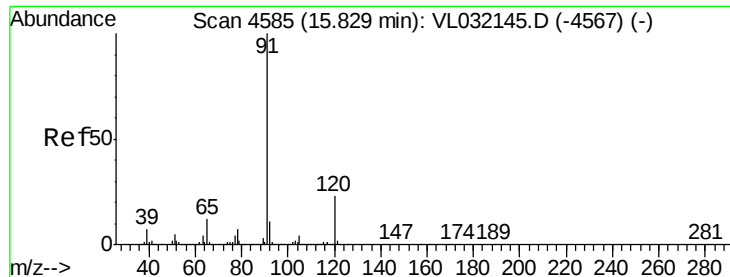
120 30.9 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

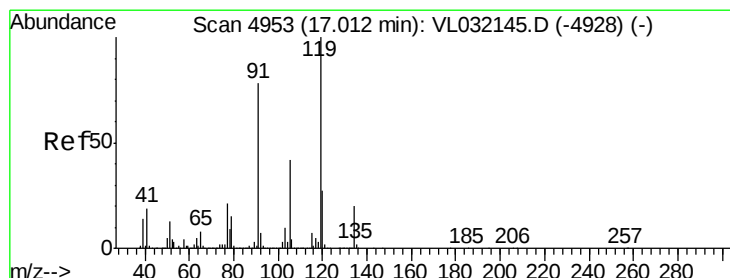
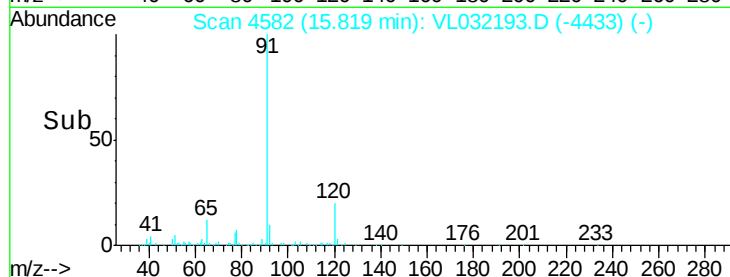
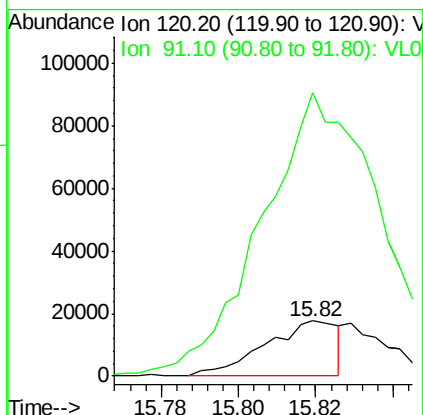
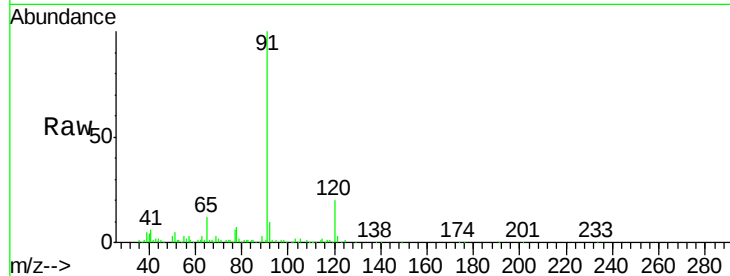




#64
n-propylbenzene
Concen: 0.139 ppbv
RT: 15.82 min Scan# 4582
Delta R.T. -0.02 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

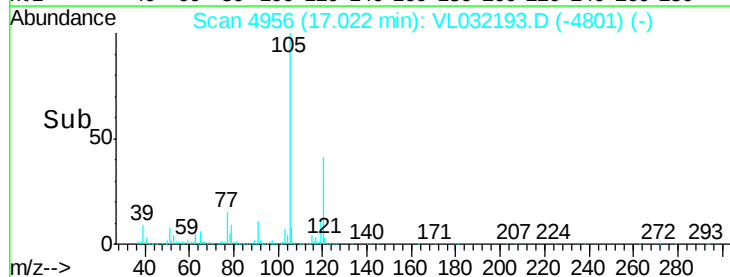
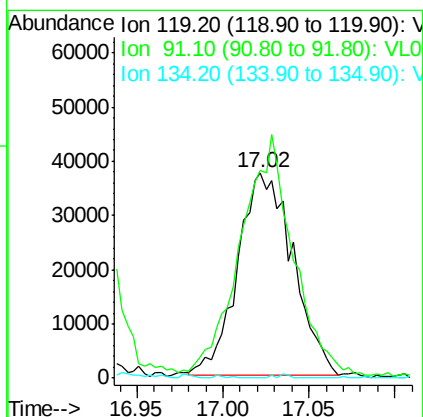
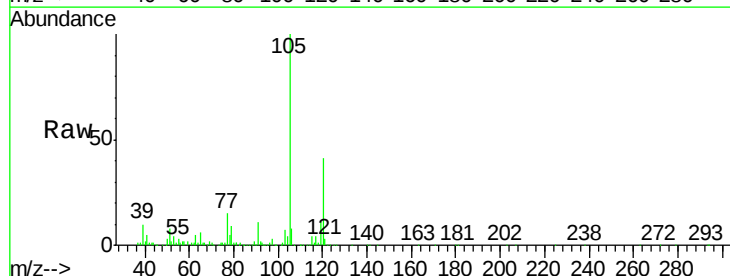
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENT

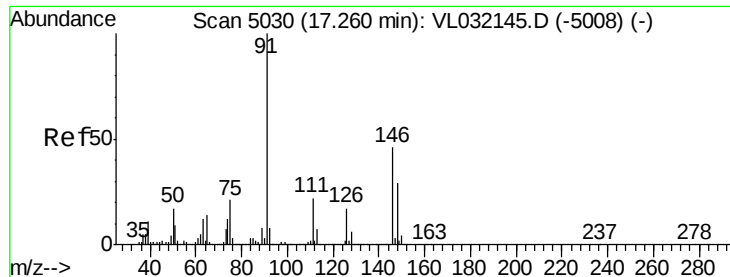
Tgt Ion:120 Resp: 23318
Ion Ratio Lower Upper
120 100
91 821.3 357.4 536.0#



#65
tert-Butylbenzene
Concen: 0.146 ppbv
RT: 17.02 min Scan# 4956
Delta R.T. -0.00 min
Lab File: VL032193.D
Acq: 2 Jul 2018 22:27

Tgt Ion:119 Resp: 83274
Ion Ratio Lower Upper
119 100
91 116.1 62.2 93.2#
134 0.0 16.2 24.2#





#66

Benzyl Chloride

Concen: 0.264 ppbv

RT: 17.03 min Scan# 4958

Delta R.T. -0.25 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

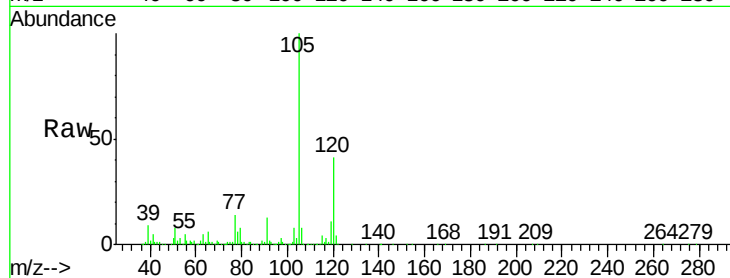
Tgt Ion: 91 Resp: 92984

Ion Ratio Lower Upper

91 100

126 0.0 15.7 23.5#

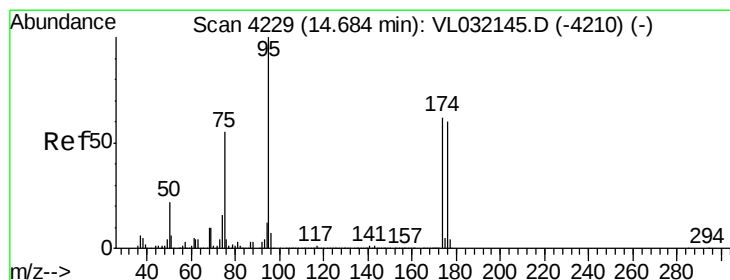
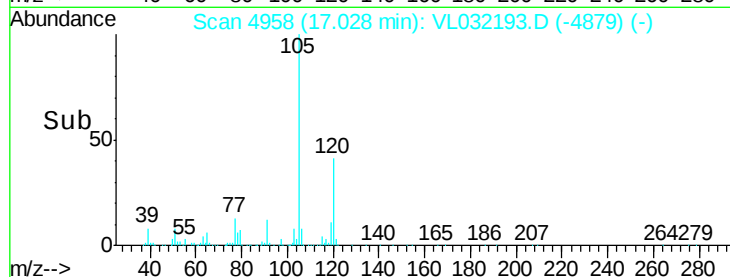
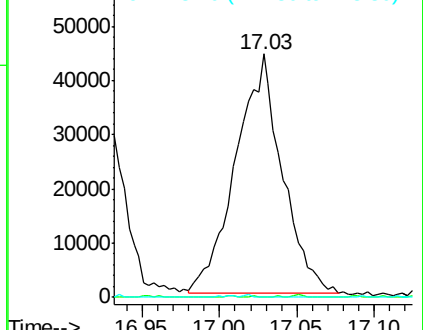
128 0.4 5.2 7.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.669 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

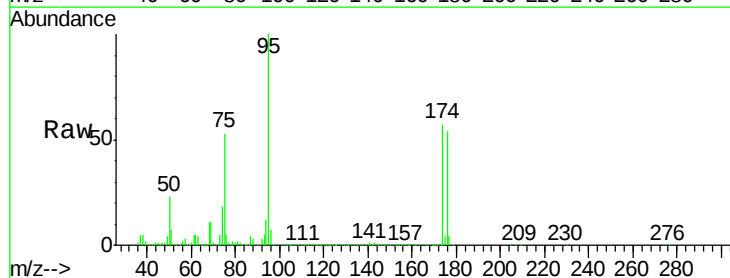
Tgt Ion: 95 Resp: 2423402

Ion Ratio Lower Upper

95 100

174 56.3 52.1 78.1

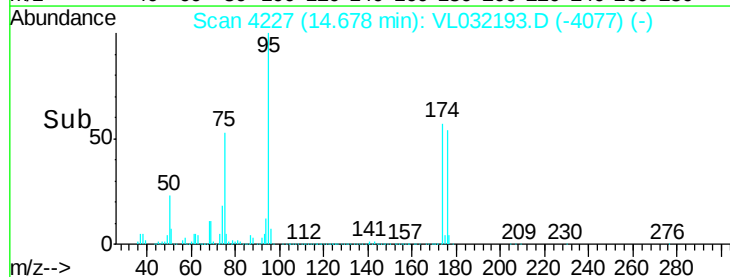
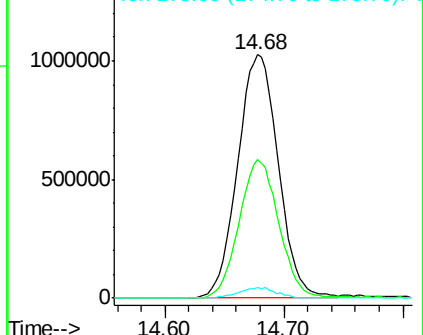
175 4.1 4.0 6.0

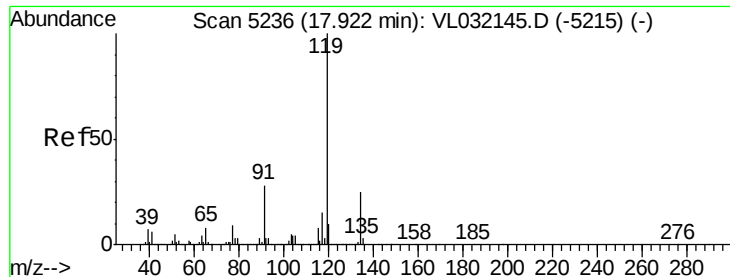


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 2.139 ppbv

RT: 17.92 min Scan# 5235

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

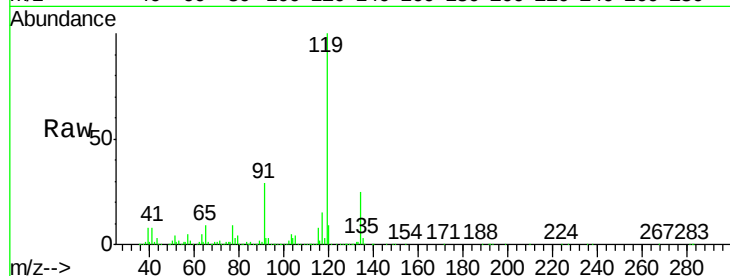
Tgt Ion:119 Resp: 1434038

Ion Ratio Lower Upper

119 100

134 24.8 20.7 31.1

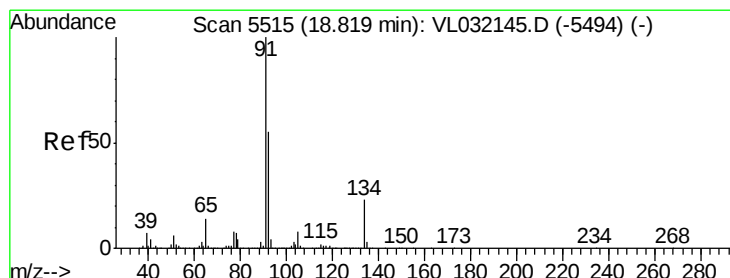
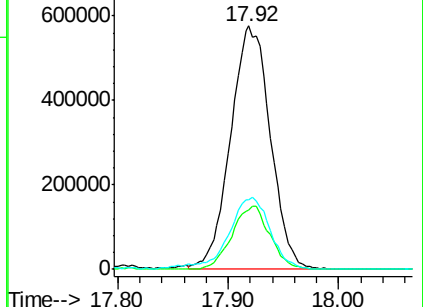
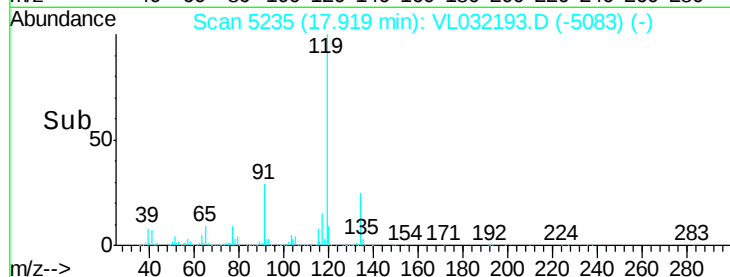
91 30.7 21.8 32.8



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): V



#70

n-Butylbenzene

Concen: 0.054 ppbv

RT: 18.82 min Scan# 5516

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

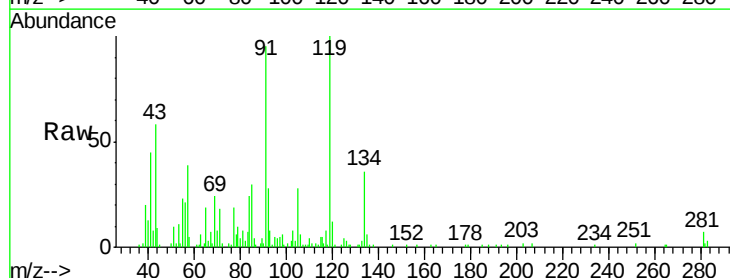
Tgt Ion: 91 Resp: 37647

Ion Ratio Lower Upper

91 100

92 67.2 43.7 65.5#

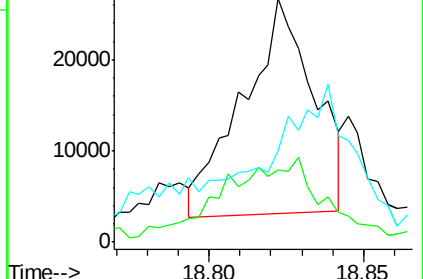
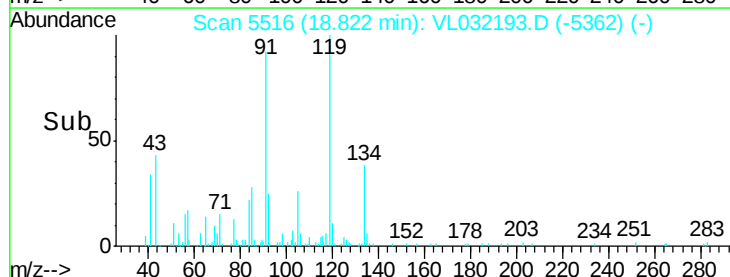
134 129.9 18.9 28.3#

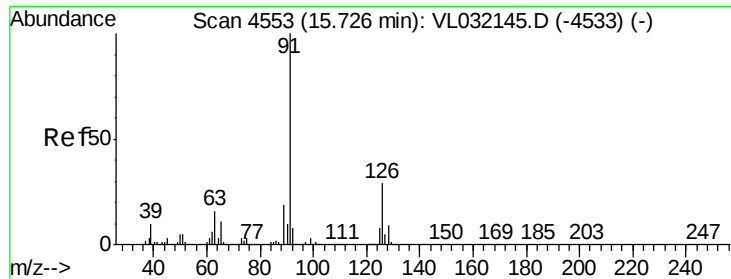


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

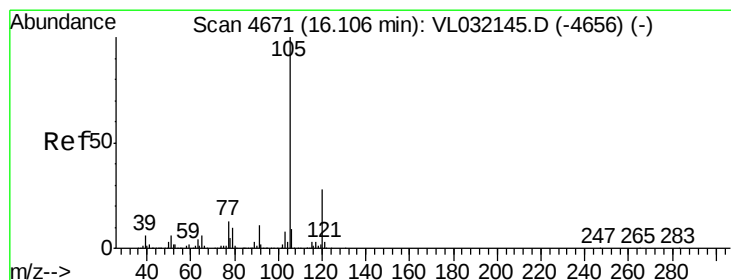
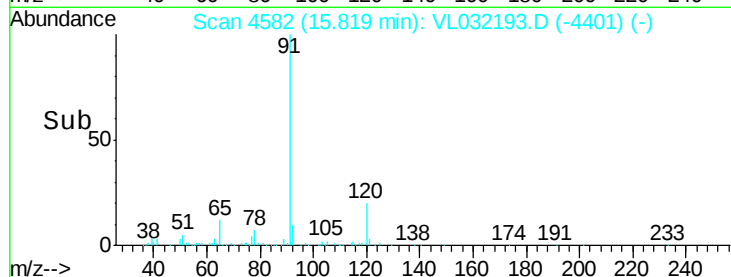
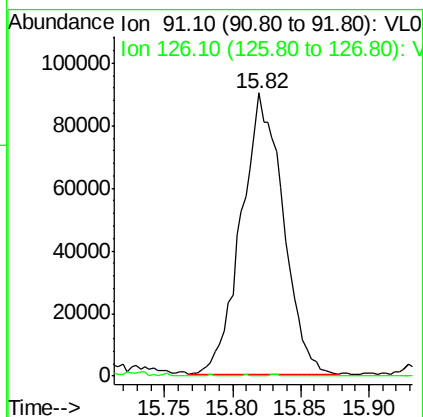
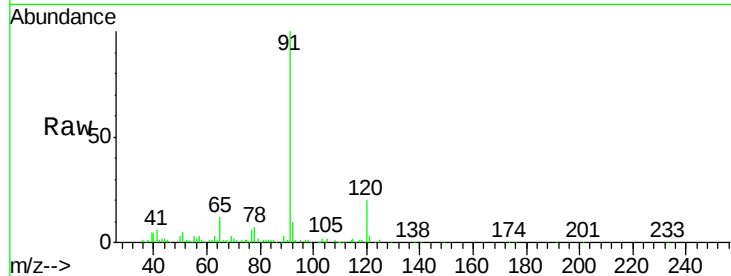




#71
 2-Chlorotoluene
 Concen: 0.386 ppbv
 RT: 15.82 min Scan# 4582
 Delta R.T. 0.08 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

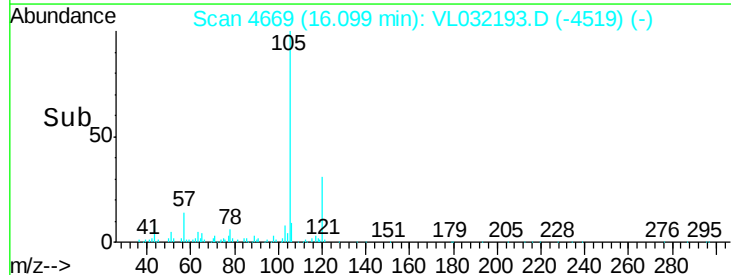
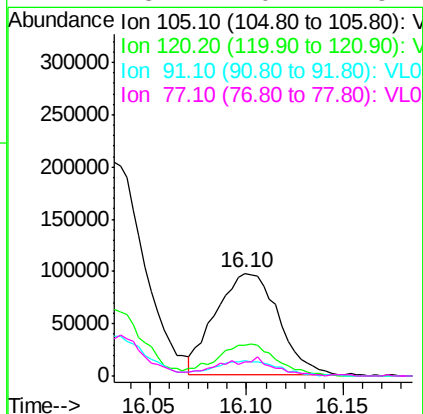
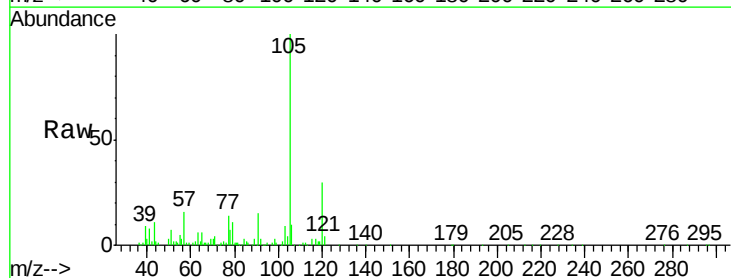
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

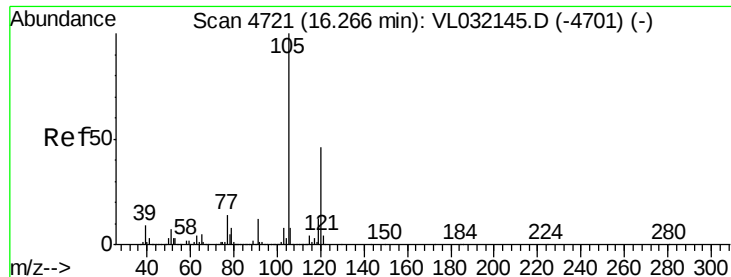
Tgt Ion: 91 Resp: 192859
 Ion Ratio Lower Upper
 91 100
 126 0.1 12.8 51.0#



#72
 4-Ethyltoluene
 Concen: 0.401 ppbv
 RT: 16.10 min Scan# 4669
 Delta R.T. -0.02 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

Tgt Ion: 105 Resp: 218981
 Ion Ratio Lower Upper
 105 100
 120 30.1 24.3 36.5
 91 15.8 9.4 14.0#
 77 15.7 10.2 15.2#

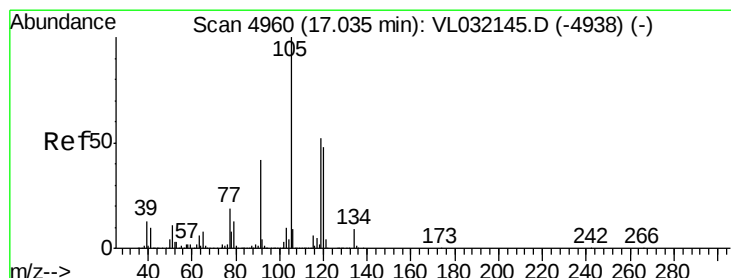
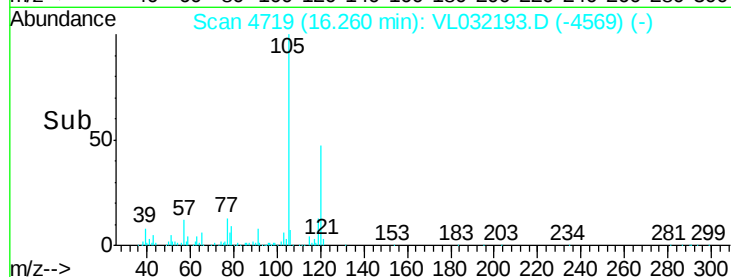
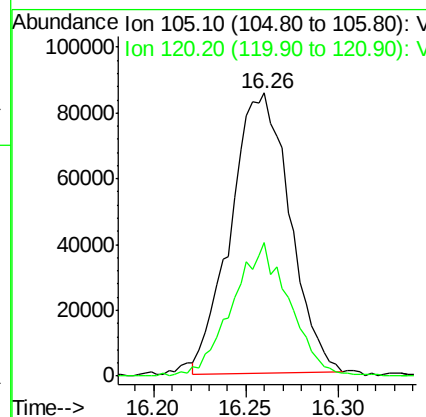
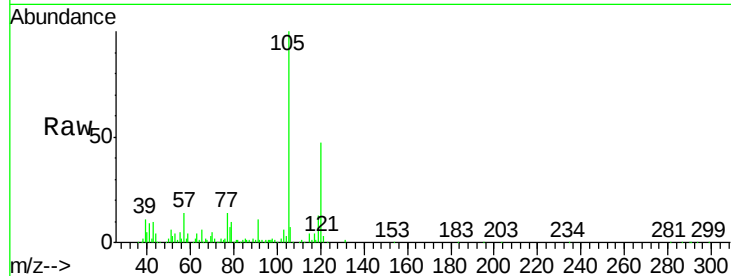




#73
 1,3,5-Trimethylbenzene
 Concen: 0.367 ppbv
 RT: 16.26 min Scan# 4719
 Delta R.T. -0.02 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

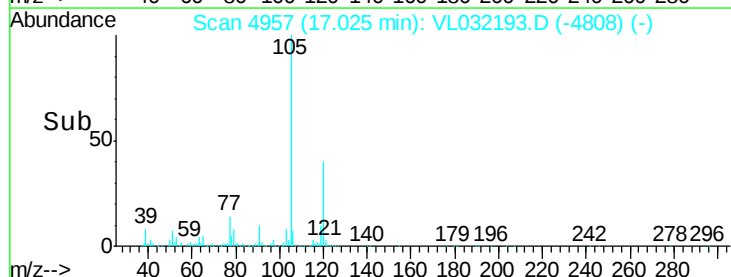
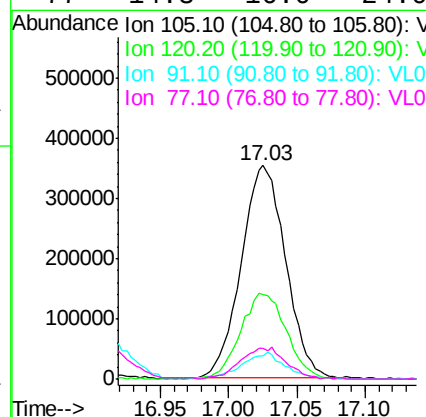
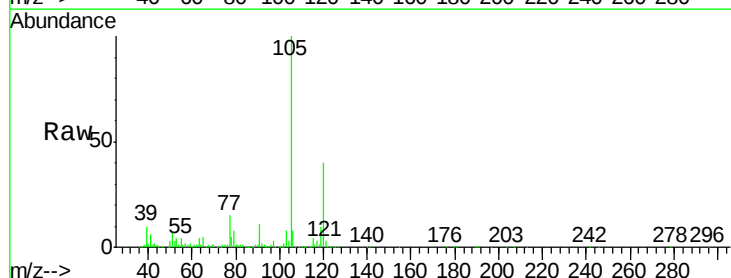
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENT

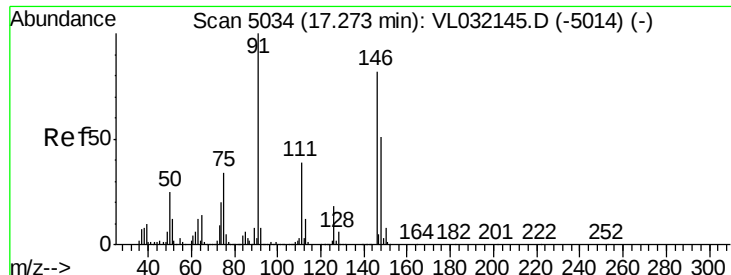
Tgt Ion:105 Resp: 188609
 Ion Ratio Lower Upper
 105 100
 120 46.6 38.6 57.8



#74
 1,2,4-Trimethylbenzene
 Concen: 1.533 ppbv
 RT: 17.03 min Scan# 4957
 Delta R.T. -0.02 min
 Lab File: VL032193.D
 Acq: 2 Jul 2018 22:27

Tgt Ion:105 Resp: 794936
 Ion Ratio Lower Upper
 105 100
 120 39.7 38.8 58.2
 91 10.6 33.6 50.4#
 77 14.3 16.0 24.0#





#75

1,3-Dichlorobenzene

Concen: 1.406 ppbv

RT: 17.27 min Scan# 5032

Delta R.T. -0.02 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

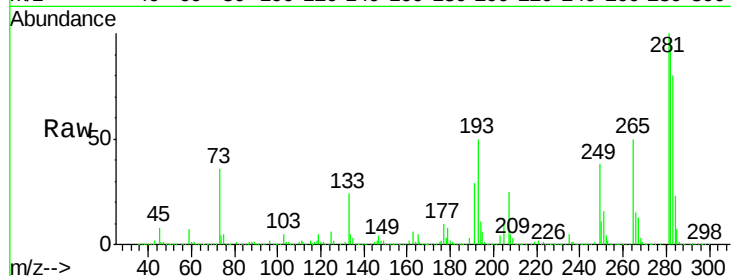
Tgt Ion:146 Resp: 414915

Ion Ratio Lower Upper

146 100

111 145.1 22.9 68.8#

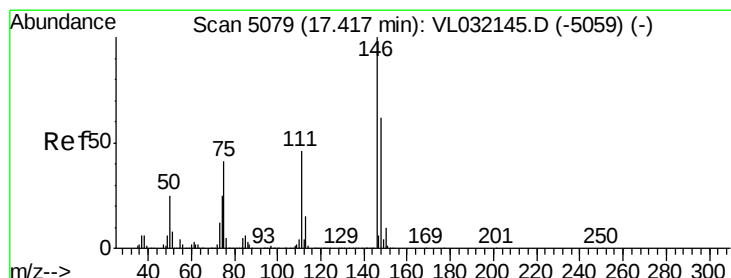
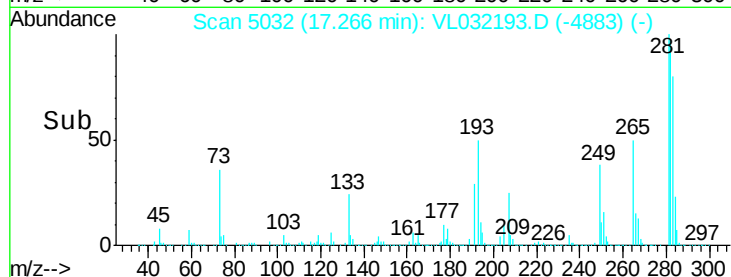
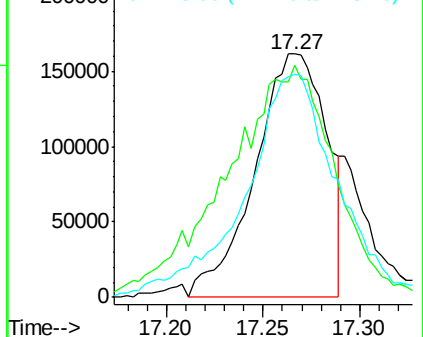
148 121.1 31.7 95.1#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 1.387 ppbv

RT: 17.27 min Scan# 5032

Delta R.T. -0.16 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

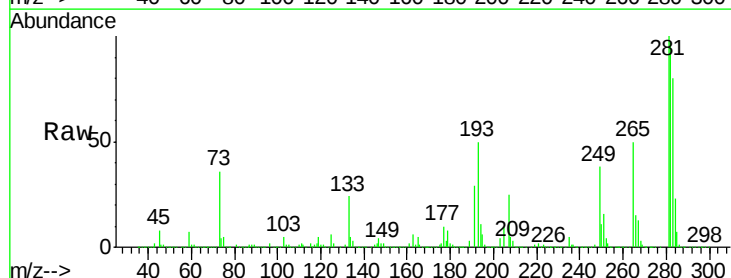
Tgt Ion:146 Resp: 414915

Ion Ratio Lower Upper

146 100

111 145.5 21.9 65.8#

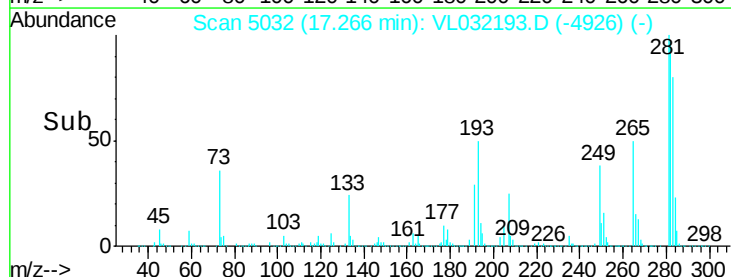
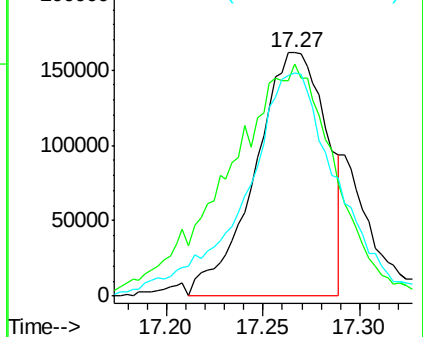
148 121.1 32.1 96.5#

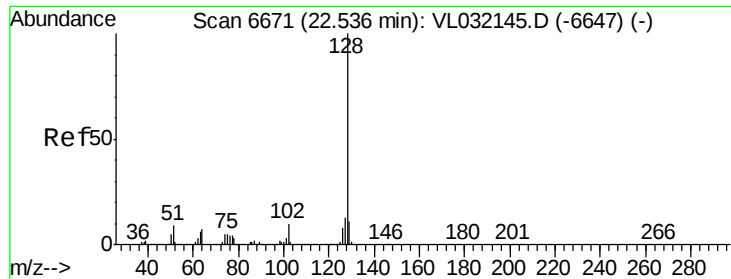


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.077 ppbv

RT: 22.54 min Scan# 6671

Delta R.T. -0.02 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENT

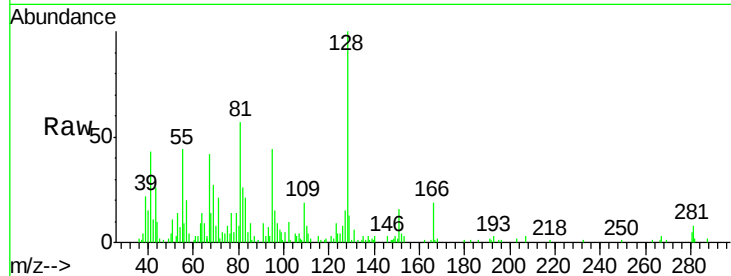
Tgt Ion:128 Resp: 36372

Ion Ratio Lower Upper

128 100

127 15.4 10.5 15.7

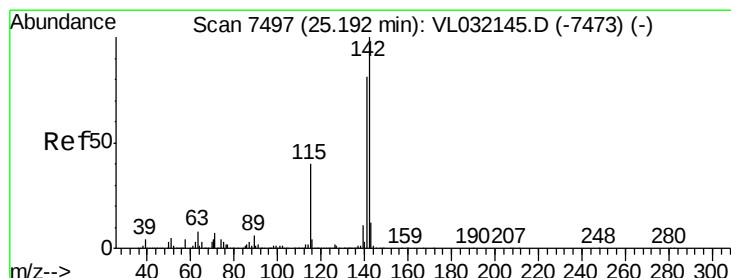
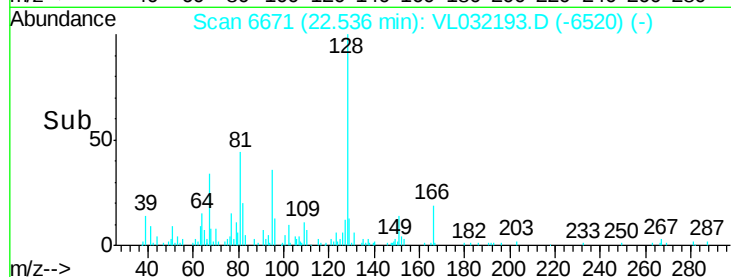
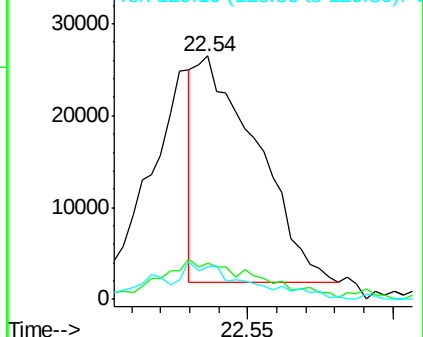
129 13.0 9.0 13.6



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.057 ppbv

RT: 25.20 min Scan# 7498

Delta R.T. -0.01 min

Lab File: VL032193.D

Acq: 2 Jul 2018 22:27

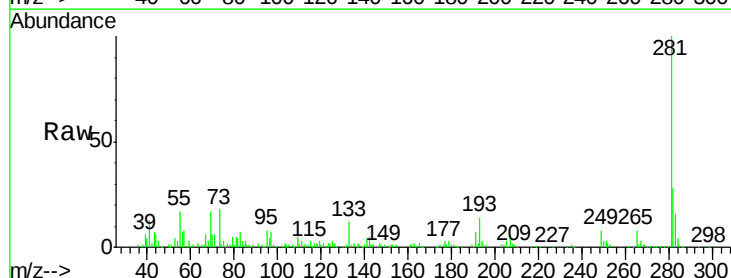
Tgt Ion:142 Resp: 9777

Ion Ratio Lower Upper

142 100

141 95.5 65.8 98.6

115 84.7 29.4 44.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

